

MADRAS**L1A**

Estimated Size	for typical [Number_of_Scans]
72.475 Mb	[2467]

Science data group associated attributes

ScienceData

Attributes				
Index	Name	Value	Type	Size
#1	Product_Identification	MT1MADSL1A_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	MADRAS	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	SLC_AuxFile_Version	9_01	H5T_C_S1	5
#18	GRB_AuxFile_Version	9_01	H5T_C_S1	5
#19	UCS_AuxFile_Version	9_01	H5T_C_S1	5
#20	Number_of_Channels	9	H5T_C_S1	8
#21	Channel_CentralFrequency	18.7GHz 18.7GHz 23.8GHz 36.5GHz 36.5GHz	H5T_C_S1	74
#22	Channel_Polarization	H V V H V H V H V	H5T_C_S1	18
#23	Channel_Bandwidth	100MHz 100MHz 200MHz 500MHz 500MHz 13	H5T_C_S1	67
#24	Number_of_Resolutions	3	H5T_C_S1	8
#25	ChannelList_LF	18.7GHz 23.8GHz 36.5GHz	H5T_C_S1	24
#26	ChannelList_MF	89.0GHz	H5T_C_S1	8
#27	ChannelList_HF	157.0GHz	H5T_C_S1	9
#28	Sample_Size_LF[Across, Along]	[40.00,67.25]km	H5T_C_S1	16
#29	Sample_Size_MF[Across, Along]	[10.00,16.81]km	H5T_C_S1	16
#30	Sample_Size_HF[Across, Along]	[6.0,10.1]km	H5T_C_S1	13
#31	SunGlint_Limits	[0,30]degree	H5T_C_S1	13
#32	Orbit_StartNumber	00001	H5T_C_S1	19
#33	Orbit_EndNumber	00001	H5T_C_S1	17
#34	Orbit_Cycle_Number	01	H5T_C_S1	3
#35	SLConf	100001	H5T_C_S1	7
#36	Nskip	0005	H5T_C_S1	5
#37	ProcessorVersion	1.00	H5T_C_S1	5

#38	MADRAS_QF_Scan_Definition	16-bits array (=0:good, =1:bad) : #15:Scan/row validity flag, #14:pass type , #13:scanning type , #12:scan/row error , #11:datation error , #10:PRT error , #9:encoder error , #8 madras correction flag #7 to 6 blank , # 5 to 3:Payload mod , #2 to 0 :Satellite mod	H5T_C_S1	16x24
#39	MADRAS_QF_Sample_Definition	16-bits array (=0:good / =1:bad);, #15:TB va	H5T_C_S1	16x24
#40	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#41	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#42	Flip_StartScanNumber	00000012	H5T_C_S1	9
#43	Flip_EndScanNumber	00000042	H5T_C_S1	9
#44	Maneuver_StartScanNumber	00000011	H5T_C_S1	9
#45	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#46	FirstScanNumber	00000000	H5T_C_S1	8
#47	Time_Sample_Interval_LF	2	H5T_C_S1	4
#48	Time_Sample_Interval_MF	2	H5T_C_S1	4
#49	Time_Sample_Interval_HF	1	H5T_C_S1	4
#50	Number_of_Samples_LF	480	H5T_C_S1	8
#51	Number_of_Samples_MF	480	H5T_C_S1	8
#52	Number_of_Samples_HF	960	H5T_C_S1	8
#53	ValidEarthSamplesIndex_LF	[012,469]	H5T_C_S1	10
#54	ValidEarthSamplesIndex_MF	[016,466]	H5T_C_S1	10
#55	ValidEarthSamplesIndex_HF	[031,930]	H5T_C_S1	10
#56	Number_of_Scans	00002467	H5T_C_S1	8
#57	QF_Product_%Processed_Scans	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]
0.005

Index	Name	Type	Typical Value	
#1	MADRAS_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
	16-bits array (=0:good, =1:bad) : #15:Scan/row validity flag, #14:pass type , #13:scanning type , #12:scan/row error , #11:datation error , #10:PRT error , #9:encoder error , #8 madras correction flag #7 to 6 blank , # 5 to 3:Payload mod , #2 to 0 :Satellite mod			
<i>comment</i>		H5T_C_S1	29	

0.005	#2	<i>dimension label</i>	Number_of_Scans	H5T C S1	16
		<i>geolocation label</i>	Scan_FirstSampleAcqTime_LF	H5T C S1	54
		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
0.005	#3	<i>dimension label</i>	Number_of_Scans	H5T C S1	16
		Latitude_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>	latitude of subsatellite point	H5T C S1	31
		<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
0.005	#4	<i>dimension label</i>	Number_of_Scans	H5T C S1	16
		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
0.005	#5	<i>dimension label</i>	Number_of_Scans	H5T C S1	16
		Scan_HotLoadTemperature	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>	Hot load temperature	H5T C S1	21
		<i>units</i>	Kelvin	H5T C S1	7
		<i>scale factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0.0	H5T C S1	4
		<i>valid range</i>	[0.0,400.0]	H5T C S1	12
		<i>min_max</i>	[0,40000]	H5T C S1	10
<i>FillValue</i>	65535	H5T C S1	6		
<i>comment</i>	Estimated average physical temperature of the hot load used for TB calculation	H5T C S1	79		
<i>dimension label</i>	Number_of_Scans	H5T C S1	16		
<i>geolocation label</i>	Scan_FirstSampleAcqTime_LF	H5T C S1	54		

0.085

	Scan_Gain	H5T_IEEE_F32LE	Number_of_Scans	
#6	Attributes			
	Name	Value	Type	Size
	long_name	Estimated gain	H5T C S1	15
	units	count/K	H5T C S1	8
	scale_factor	1.0	H5T C S1	4
	add_offset	0.0	H5T C S1	4
	valid_range	[5.0,13.0]	H5T C S1	21
	min_max	[5.0,13.0]	H5T C S1	21
	FillValue	3.4E38	H5T C S1	7
	comment	Estimated gain value applied to TB calculation for each channels in the following sequence: 18.7H, 18.7V, 23.8 V,36.5H, 36.5V, 89.0H, 89.0V, 157.0H, 157.0V	H5T C S1	124
dimension label	Number_of_Scans, Number_of_Channels	H5T C S1	36	

0.085

	Scan_Offset	H5T_IEEE_F32LE	Number_of_Scans	
#7	Attributes			
	Name	Value	Type	Size
	long_name	Estimated offset	H5T C S1	17
	units	Kelvin	H5T C S1	7
	scale_factor	1.0	H5T C S1	4
	add_offset	0.0	H5T C S1	4
	valid_range	[0.0,150.0]	H5T C S1	23
	min_max	[0.0,150.0]	H5T C S1	23
	FillValue	3.4E38	H5T C S1	7
	comment	Estimated offset value used for TB calculation for each channels in the following sequence: 18.7H, 18.7V, 23.8 V,36.5H, 36.5V, 89.0H, 89.0V, 157.0H, 157.0V	H5T C S1	113
dimension label	Number_of_Scans, Number_of_Channels	H5T C S1	36	

0.002

	Scan_FirstSampleAcqTime_LF	H5T_C_S1	Number_of_Scans	
#8	Attributes			
	Name	Value	Type	Size
	long_name	date of the first sample	H5T C S1	45
	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	30
	dimension label	Number_of_Scans	H5T C S1	16

0.002

	Scan_FirstSampleAcqTime_MF	H5T_C_S1	Number_of_Scans	
#9	Attributes			
	Name	Value	Type	Size
	long_name	date of the first sample	H5T C S1	45
	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	30
	dimension label	Number_of_Scans	H5T C S1	16

0.002

	Scan_FirstSampleAcqTime_HF	H5T_C_S1	Number_of_Scans	
#10	Attributes			
	Name	Value	Type	Size
	long_name	date of the first sample	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>	yyyyymmdd hhmmssuuuuuu	H5T_C_S1	22	
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T_C_S1	30	
		<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16	
2.259	#11	Latitude_Samples_LF	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 low-resolution (18.7 GHz, 23.8 GHz, 36.5 GHz) samples	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_Samples_LF	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		
2.259	#12	Latitude_Samples_MF	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 medium-resolution (89.0 GHz) samples	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_Samples_MF	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		
4.517	#13	Latitude_Samples_HF	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 high-resolution (157.0 GHz) samples	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_Samples_HF	H5T_C_S1	59	
		<i>CLASS</i>	IMAGE	H5T_C_S1	6	

2.259	#14	IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16	
		IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4	
		Longitude_Samples_LF		H5T_STD_U16LE	Number_of_Scans	
		Attributes				
		Name		Value	Type	Size
		long_name		longitude of low-resolution (18.7 GHz, 23.8 GHz, 36.5 GHz) samples	H5T_C_S1	78
		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
		FillValue		65535	H5T_C_S1	6
		comment		Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T_C_S1	59
		dimension_label		Number_of_Scans, Number_of_Samples_LF	H5T_C_S1	59
2.259	#15	CLASS	IMAGE	H5T_C_S1	6	
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16	
		IMAGE_MINMAXRANGE	[0,36000]	H5T_STD_U16LE	4	
		Longitude_Samples_MF		H5T_STD_U16LE	Number_of_Scans	
		Attributes				
		Name		Value	Type	Size
		long_name		longitude of medium-resolution (89.0 GHz) samples	H5T_C_S1	78
		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
		FillValue		65535	H5T_C_S1	6
		comment		Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T_C_S1	59
dimension_label		Number_of_Scans, Number_of_Samples_MF	H5T_C_S1	59		
4.517	#16	CLASS	IMAGE	H5T_C_S1	6	
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16	
		IMAGE_MINMAXRANGE	[0,36000]	H5T_STD_U16LE	4	
		Longitude_Samples_HF		H5T_STD_U16LE	Number_of_Scans	
		Attributes				
		Name		Value	Type	Size
		long_name		longitude of high-resolution (157.0 GHz) samples	H5T_C_S1	78
		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
		FillValue		65535	H5T_C_S1	6
		comment		Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T_C_S1	59
dimension_label		Number_of_Scans, Number_of_Samples_HF	H5T_C_S1	59		

1.129	#17	IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16	
		IMAGE_MINMAXRANGE	[0,36000]	H5T_STD_U16LE	4	
		IncidenceAngle_Samples_LF		H5T_STD_I8LE	Number_of_Scans>	
		Attributes				
		Name	Value	Type	Size	
		long_name	Incidence angle at the center of samples	H5T_C_S1	52	
		standard_name	incidence_angle	H5T_C_S1	16	
		units	degrees	H5T_C_S1	8	
		scale_factor	0.01	H5T_C_S1	5	
		add_offset	53.0	H5T_C_S1	5	
		valid_range	[51.72,54.27]	H5T_C_S1	14	
		FillValue	127	H5T_C_S1	4	
		comment	angle between zenith and line of sight	H5T_C_S1	39	
		dimension_label	Number_of_Scans, Number_of_Samples_LF	H5T_C_S1	59	
geolocation_label	Latitude_Samples_LF, Longitude_Samples_LF	H5T_C_S1	78			
CLASS	IMAGE	H5T_C_S1	6			
IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16			
IMAGE_MINMAXRANGE	[-128,127]	H5T_STD_I8LE	2			
1.129	#18	IncidenceAngle_Samples_MF		H5T_STD_I8LE	Number_of_Scans>	
		Attributes				
		Name	Value	Type	Size	
		long_name	Incidence angle at the center of samples	H5T_C_S1	52	
		standard_name	incidence_angle	H5T_C_S1	16	
		units	degrees	H5T_C_S1	8	
		scale_factor	0.01	H5T_C_S1	5	
		add_offset	53.0	H5T_C_S1	5	
		valid_range	[51.72,54.27]	H5T_C_S1	14	
		FillValue	127	H5T_C_S1	4	
		comment	angle between zenith and line of sight	H5T_C_S1	39	
		dimension_label	Number_of_Scans, Number_of_Samples_MF	H5T_C_S1	59	
		geolocation_label	Latitude_Samples_LF, Longitude_Samples_LF	H5T_C_S1	78	
		CLASS	IMAGE	H5T_C_S1	6	
IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16			
IMAGE_MINMAXRANGE	[-128,127]	H5T_STD_I8LE	2			
2.259	#19	IncidenceAngle_Samples_HF		H5T_STD_I8LE	Number_of_Scans>	
		Attributes				
		Name	Value	Type	Size	
		long_name	Incidence angle at the center of samples	H5T_C_S1	52	
		standard_name	incidence_angle	H5T_C_S1	16	
		units	degrees	H5T_C_S1	8	
		scale_factor	0.01	H5T_C_S1	5	
		add_offset	53.0	H5T_C_S1	5	
		valid_range	[51.72,54.27]	H5T_C_S1	14	
		FillValue	127	H5T_C_S1	4	
		comment	angle between zenith and line of sight	H5T_C_S1	39	
		dimension_label	Number_of_Scans, Number_of_Samples_HF	H5T_C_S1	59	
		geolocation_label	Latitude_Samples_LF, Longitude_Samples_LF	H5T_C_S1	78	

2.259

		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
		IMAGE_MINMAXRANGE	[-128,127]	H5T_STD_I8LE	2
		TB_Samples_18.7_H	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>	Samples brightness temperatures at 18.7 H	H5T_C_S1	53
		<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
		<i>units</i>	Kelvin	H5T_C_S1	7
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	0.0	H5T_C_S1	4
		<i>valid_range</i>	[0,400]	H5T_C_S1	8
		<i>FillValue</i>	65535	H5T_C_S1	6
		<i>quality_flag</i>	QF_Samples_18.7_H	H5T_C_S1	44
		<i>comment</i>	TB estimated from raw instrumental measurements (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
		<i>dimension_label</i>	Number_of_Scans, Number_of_Samples_LF	H5T_C_S1	56
		<i>geolocation_label</i>	Latitude_Samples_LF, Longitude_Samples_LF	H5T_C_S1	78
		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
		IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
		TB_Samples_18.7_V	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>	Samples brightness temperatures at 18.7 V	H5T_C_S1	53
		<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
		<i>units</i>	Kelvin	H5T_C_S1	7
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	0.0	H5T_C_S1	4
		<i>valid_range</i>	[0,400]	H5T_C_S1	8
		<i>FillValue</i>	65535	H5T_C_S1	6
		<i>quality_flag</i>	QF_Samples_18.7_V	H5T_C_S1	44
		<i>comment</i>	TB estimated from raw instrumental measurements (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
		<i>dimension_label</i>	Number_of_Scans, Number_of_Samples_LF	H5T_C_S1	56
		<i>geolocation_label</i>	Latitude_Samples_LF, Longitude_Samples_LF	H5T_C_S1	78
		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
		IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
		TB_Samples_23.8_V	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>	Samples brightness temperatures at 23.8 V	H5T_C_S1	53
		<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
		<i>units</i>	Kelvin	H5T_C_S1	7

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<i>scale factor</i>	0.01	H5T_C_S1	5
<i>add offset</i>	0.0	H5T_C_S1	4
<i>valid range</i>	[0,400]	H5T_C_S1	8
<i>FillValue</i>	65535	H5T_C_S1	6
<i>quality flag</i>	QF_Samples_23.8_V	H5T_C_S1	44
<i>comment</i>	TB estimated from raw instrumental measurements (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
<i>dimension label</i>	Number_of_Scans, Number_of_Samples_LF	H5T_C_S1	56
<i>geolocation label</i>	Latitude_Samples_LF, Longitude_Samples_LF	H5T_C_S1	78
<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

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#23	TB_Samples_36.5_H	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>	Samples brightness temperatures at 36.5 H	H5T_C_S1	53
	<i>standard name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale factor</i>	0.01	H5T_C_S1	5
	<i>add offset</i>	0.0	H5T_C_S1	4
	<i>valid range</i>	[0,400]	H5T_C_S1	8
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality flag</i>	QF_Samples_36.5_H	H5T_C_S1	44
	<i>comment</i>	TB estimated from raw instrumental measurements (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
	<i>dimension label</i>	Number_of_Scans, Number_of_Samples_LF	H5T_C_S1	56
	<i>geolocation label</i>	Latitude_Samples_LF, Longitude_Samples_LF	H5T_C_S1	78
	<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	

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#24	TB_Samples_36.5_V	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>	Samples brightness temperatures at 36.5 V	H5T_C_S1	53
	<i>standard name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale factor</i>	0.01	H5T_C_S1	5
	<i>add offset</i>	0.0	H5T_C_S1	4
	<i>valid range</i>	[0,400]	H5T_C_S1	8
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality flag</i>	QF_Samples_36.5_V	H5T_C_S1	44
	<i>comment</i>	TB estimated from raw instrumental measurements (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
	<i>dimension label</i>	Number_of_Scans, Number_of_Samples_LF	H5T_C_S1	56

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		<i>geolocation label</i>	Latitude_Samples_LF, Longitude_Samples_LF	H5T C S1	78
		<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
		TB_Samples_89.0_H	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>	Samples brightness temperatures at 89.0 H	H5T C S1	53
		<i>standard_name</i>	brightness_temperature	H5T C S1	23
		<i>units</i>	Kelvin	H5T C S1	7
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0.0	H5T C S1	4
		<i>valid_range</i>	[0,400]	H5T C S1	8
		<i>FillValue</i>	65535	H5T C S1	6
		<i>quality_flag</i>	QF_Samples_89.0_H	H5T C S1	44
		<i>comment</i>	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of MADRAS)	H5T C S1	88
		<i>dimension label</i>	Number_of_Scans, Number of Samples MF	H5T C S1	56
		<i>geolocation label</i>	Latitude_Samples_MF, Longitude_Samples_MF	H5T C S1	78
		<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
		TB_Samples_89.0_V	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>	Samples brightness temperatures at 89.0 V	H5T C S1	53
		<i>standard_name</i>	brightness_temperature	H5T C S1	23
		<i>units</i>	Kelvin	H5T C S1	7
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0.0	H5T C S1	4
		<i>valid_range</i>	[0,400]	H5T C S1	8
		<i>FillValue</i>	65535	H5T C S1	6
		<i>quality_flag</i>	QF_Samples_89.0_V	H5T C S1	44
		<i>comment</i>	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of MADRAS)	H5T C S1	88
		<i>dimension label</i>	Number_of_Scans, Number of Samples MF	H5T C S1	56
		<i>geolocation label</i>	Latitude_Samples_MF, Longitude_Samples_MF	H5T C S1	78
		<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
		TB_Samples_157.0_H	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>	Samples brightness temperatures at 157.0_H	H5T C S1	53

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<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
<i>units</i>	Kelvin	H5T_C_S1	7
<i>scale_factor</i>	0.01	H5T_C_S1	5
<i>add_offset</i>	0.0	H5T_C_S1	4
<i>valid_range</i>	[0,400]	H5T_C_S1	8
<i>FillValue</i>	65535	H5T_C_S1	6
<i>quality_flag</i>	QF_Samples_157.0_H	H5T_C_S1	44
<i>comment</i>	TB estimated from raw instrumental measurements (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
<i>dimension_label</i>	Number_of_Scans, Number_of_Samples_HF	H5T_C_S1	56
<i>geolocation_label</i>	Latitude_Samples_HF, Longitude_Samples_HF	H5T_C_S1	78
<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
	TB_Samples_157.0_V	H5T_STD_U16LE	Number_of_Scans>
	<i>Attributes</i>		
	<i>Name</i>	<i>Value</i>	<i>Type</i>
	<i>long_name</i>	Samples brightness temperatures at 157.0 V	H5T_C_S1
	<i>standard_name</i>	brightness_temperature	H5T_C_S1
	<i>units</i>	Kelvin	H5T_C_S1
	<i>scale_factor</i>	0.01	H5T_C_S1
	<i>add_offset</i>	0.0	H5T_C_S1
	<i>valid_range</i>	[0,400]	H5T_C_S1
	<i>FillValue</i>	65535	H5T_C_S1
	<i>quality_flag</i>	QF_Samples_157.0_V	H5T_C_S1
	<i>comment</i>	TB estimated from raw instrumental measurements (see additional geometrical information in attributes of MADRAS)	H5T_C_S1
	<i>dimension_label</i>	Number_of_Scans, Number_of_Samples_HF	H5T_C_S1
	<i>geolocation_label</i>	Latitude_Samples_HF, Longitude_Samples_HF	H5T_C_S1
	<i>CLASS</i>	IMAGE	H5T_C_S1
	<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T_C_S1
	<i>IMAGE_MINMAXRANGE</i>	[0,40000]	H5T_STD_U16LE
		H5T_STD_U16LE	Number_of_Scans>
	<i>Attributes</i>		
	<i>Name</i>	<i>Value</i>	<i>Type</i>
	<i>long_name</i>	Quality Flag of sample for channel 18.7 H	H5T_C_S1
	<i>standard_name</i>	quality_flag	H5T_C_S1
	<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T_C_S1

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		<i>dimension_label</i>	Number_of_Scans, Number_of_Samples_LF	H5T C S1	56	
		<i>geolocation_label</i>	Latitude_Samples_LF, Longitude_Samples_LF	H5T C S1	78	
		<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	
2.259	#30	QF_Samples_18.7_V		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 of sample for channel 18.7 V	H5T C S1	71	
		<i>standard_name</i>	quality flag	H5T C S1	13	
		<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1	
		<i>dimension_label</i>	Number_of_Scans, Number_of_Samples_LF	H5T C S1	56	
		<i>geolocation_label</i>	Latitude_Samples_LF, Longitude_Samples_LF	H5T C S1	78	
		<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	
2.259		#31	QF_Samples_23.8_V		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 of sample for channel 23.8 V	H5T C S1	71	
	<i>standard_name</i>		quality flag	H5T C S1	13	
	<i>comment</i>		16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1	
	<i>dimension_label</i>		Number_of_Scans, Number_of_Samples_LF	H5T C S1	56	
	<i>geolocation_label</i>		Latitude_Samples_LF, Longitude_Samples_LF	H5T C S1	78	
	<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	
2.259	#32		QF_Samples_36.5_H		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 of sample for channel 36.5 H	H5T C S1	71	

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	<i>standard name</i>	quality flag	H5T_C_S1	13
	<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T_C_S1	1
	<i>dimension label</i>	Number_of_Scans, Number_of_Samples_LF	H5T_C_S1	56
	<i>geolocation label</i>	Latitude_Samples_LF, Longitude_Samples_LF	H5T_C_S1	78
	<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
	QF_Samples_36.5_V	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 of sample for channel 36.5 V	H5T_C_S1	71
	<i>standard name</i>	quality flag	H5T_C_S1	13
	<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T_C_S1	1
	<i>dimension label</i>	Number_of_Scans, Number_of_Samples_LF	H5T_C_S1	56
	<i>geolocation label</i>	Latitude_Samples_LF, Longitude_Samples_LF	H5T_C_S1	78
	<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
	QF_Samples_89.0_H	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 of sample for channel 89.0 H	H5T_C_S1	71
	<i>standard name</i>	quality flag	H5T_C_S1	13
	<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T_C_S1	1

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		<i>dimension label</i>	Number_of_Scans, Number_of_Samples_MF	H5T C S1	56	
		<i>geolocation label</i>	Latitude_Samples_MF, Longitude_Samples_MF	H5T C S1	78	
		<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	
2.259	#35	QF_Samples_89.0_V	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 of sample for channel 89.0 V	H5T C S1	71	
		<i>standard_name</i>	quality flag	H5T C S1	13	
		<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1	
		<i>dimension label</i>	Number_of_Scans, Number_of_Samples_MF	H5T C S1	56	
		<i>geolocation label</i>	Latitude_Samples_MF, Longitude_Samples_MF	H5T C S1	78	
		<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	
4.517	#36	QF_Samples_157.0_H	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 of sample for channel 157.0 H	H5T C S1	71	
		<i>standard_name</i>	quality flag	H5T C S1	13	
		<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1	
		<i>dimension label</i>	Number_of_Scans, Number_of_Samples_HF	H5T C S1	56	
		<i>geolocation label</i>	Latitude_Samples_HF, Longitude_Samples_HF	H5T C S1	78	
		<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	
4.517	#37	QF_Samples_157.0_V	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 of sample for channel 157.0 V	H5T_C_S1	71
<i>standard_name</i>	quality flag	H5T_C_S1	13
<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint , #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error , #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T_C_S1	1
<i>dimension_label</i>	Number_of_Scans, Number_of_Samples_HF	H5T_C_S1	56
<i>geolocation_label</i>	Latitude_Samples_HF, Longitude_Samples_HF	H5T_C_S1	78
<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

MADRAS**L1A2**

Estimated Size	for typical [Number_of_Scans]
21.850 Mb	[2467]

Science data group associated attributes

ScienceData

		Attributes		
Index	Name	Value	Type	Size
#1	Product_Identification	MT1MADSL1A2_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	MADRAS	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	SLC_AuxFile_Version	9_01	H5T_C_S1	5
#18	GRB_AuxFile_Version	9_01	H5T_C_S1	5
#19	UCS_AuxFile_Version	9_01	H5T_C_S1	5
#20	Number_of_Channels	9	H5T_C_S1	8
#21	Channel_CentralFrequency	18.7GHz 18.7GHz 23.8GHz 36.5GHz 36.5GHz	H5T_C_S1	74
#22	Channel_Polarization	H V V H V H V H V	H5T_C_S1	18
#23	Channel_Bandwidth	100MHz 100MHz 200MHz 500MHz 500MHz 13	H5T_C_S1	67
#24	Number_of_Resolutions	3	H5T_C_S1	8
#25	ChannelList_LF	18.7GHz 23.8GHz 36.5GHz	H5T_C_S1	24
#26	ChannelList_MF	89.0GHz	H5T_C_S1	8
#27	ChannelList_HF	157.0GHz	H5T_C_S1	9
#28	Pixel_Size_LF	[40.00,67.25]km	H5T_C_S1	16
#29	Pixel_Size_MF	[10.00,16.81]km	H5T_C_S1	16
#30	Pixel_Size_HF	[6.0,10.1]km	H5T_C_S1	13
#31	SunGlint_Limits	[0,30]degree	H5T_C_S1	13
#32	Orbit_StartNumber	00001	H5T_C_S1	19
#33	Orbit_EndNumber	00001	H5T_C_S1	17
#34	Orbit_Cycle_Number	01	H5T_C_S1	3
#35	SLConf	100001	H5T_C_S1	7
#36	Nskip	0005	H5T_C_S1	5
#37	ProcessorVersion	1.00	H5T_C_S1	5

#38	MADRAS_QF_Scan_Definition	16-bits array (=0:good, =1:bad) : #15:Scan/row validity flag, #14:pass type , #13:scanning type , #12:scan/row error , #11:datation error , #10:PRT error , #9:encoder error , #8 madras correction flag #7 to 6 blank , # 5 to 3:Payload mod , #2 to 0 :Satellite mod	H5T_C_S1	16x24
#39	MADRAS_QF_Pixel_Definition	16-bits array (=0:good / =1:bad);, #15:TB va	H5T_C_S1	16x24
#40	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#41	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#42	Flip_StartScanNumber	00000012	H5T_C_S1	9
#43	Flip_EndScanNumber	00000042	H5T_C_S1	9
#44	Maneuver_StartScanNumber	00000011	H5T_C_S1	9
#45	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#46	FirstScanNumber	00000000	H5T_C_S1	8
#47	Time_Pixel_Interval	4.2	H5T_C_S1	4
#48	Number_of_Pixels	214	H5T_C_S1	8
#49	Number_of_Scans	00002467	H5T_C_S1	8
#50	QF_Product_%Processed_Scans	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]
0.005

Index	Name	Type	Typical Value	
#1	MADRAS_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 validity flag, #14:pass type , #13:scanning type , #12:scan/row error , #11:datation error , #10:PRT error , #9:encoder error , #8 madras correction flag #7 to 6 blank , # 5 to 3:Payload mod , #2 to 0 :Satellite mod	H5T_C_S1	29
	<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16
#2	<i>geolocation_label</i>	Scan_FirstPixelAcqTime	H5T_C_S1	54
	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	

0.005

		<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
0.005	#3	Latitude_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>	latitude of subsatellite point	H5T_C_S1	31
		<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>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
		<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16
0.005		#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
0.005	#5		Scan_HotLoadTemperature	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>	Hot load temperature	H5T_C_S1	21
		<i>units</i>	Kelvin	H5T_C_S1	7
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	0.0	H5T_C_S1	4
		<i>valid_range</i>	[0.0,400.0]	H5T_C_S1	12
		<i>min_max</i>	[0,40000]	H5T_C_S1	10
		<i>FillValue</i>	65535	H5T_C_S1	6
		<i>comment</i>	Estimated average physical temperature of the hot load used for TB calculation	H5T_C_S1	79
		<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16
		<i>geolocation_label</i>	Scan_FirstPixelAcqTime	H5T_C_S1	54
0.085		#6	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/K	H5T_C_S1	8
	<i>scale_factor</i>		1.0	H5T_C_S1	4
	<i>add_offset</i>	0.0	H5T_C_S1	4	

		<i>valid_range</i>	[5.0,13.0]	H5T_C_S1	21	
		<i>min_max</i>	[5.0,13.0]	H5T_C_S1	21	
		<i>FillValue</i>	3.4E38	H5T_C_S1	7	
		<i>comment</i>	Estimated gain value applied to TB calculation for each channels in the following sequence: 18.7H, 18.7V, 23.8 V,36.5H, 36.5V, 89.0H, 89.0V, 157.0H, 157.0V	H5T_C_S1	124	
		<i>dimension_label</i>	Number_of_Scans, Number_of_Channels	H5T_C_S1	36	
0.085	#7	Scan_Offset	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 offset	H5T_C_S1	17	
		<i>units</i>	Kelvin	H5T_C_S1	7	
		<i>scale_factor</i>	1.0	H5T_C_S1	4	
		<i>add_offset</i>	0.0	H5T_C_S1	4	
		<i>valid_range</i>	[0.0,150.0]	H5T_C_S1	23	
		<i>min_max</i>	[0.0,150.0]	H5T_C_S1	23	
		<i>FillValue</i>	3.4E38	H5T_C_S1	7	
		<i>comment</i>	Estimated offset value used for TB calculation for each channels in the following sequence: 18.7H, 18.7V, 23.8 V,36.5H, 36.5V, 89.0H, 89.0V, 157.0H, 157.0V	H5T_C_S1	113	
	<i>dimension_label</i>	Number_of_Scans, Number_of_Channels	H5T_C_S1	36		
0.002	#8	Scan_FirstPixelAcqTime_LF	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>	yyyyymmdd hhmmssuuuuuu	H5T_C_S1	22	
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T_C_S1	30	
	<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
0.002	#9	Scan_FirstPixelAcqTime_MF	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>	yyyyymmdd hhmmssuuuuuu	H5T_C_S1	22	
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T_C_S1	30	
	<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
0.002	#10	Scan_FirstPixelAcqTime_HF	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>	yyyyymmdd hhmmssuuuuuu	H5T_C_S1	22	
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T_C_S1	30	
	<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
1.007	#11	Latitude_Pixels	H5T_STD_U16LE	Number_of_Scans		
	<i>Attributes</i>					

1.007

Name	Value	Type	Size
<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
Longitude_Pixels	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
Name	Value	Type	Size
<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>	0.0	H5T_C_S1	4
<i>valid_range</i>	[0.0,360.0]	H5T_C_S1	12
<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	59
<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
IncidenceAngle_Pixels_LF	H5T_STD_I8LE	Number_of_Scans	
<i>Attributes</i>			
Name	Value	Type	Size
<i>long_name</i>	Incidence angle at the center of pixels	H5T_C_S1	52
<i>standard_name</i>	incidence_angle	H5T_C_S1	16
<i>units</i>	degrees	H5T_C_S1	8
<i>scale_factor</i>	0.01	H5T_C_S1	5
<i>add_offset</i>	53.0	H5T_C_S1	5
<i>valid_range</i>	[51.72,54.27]	H5T_C_S1	14
<i>FillValue</i>	127	H5T_C_S1	4
<i>comment</i>	angle between zenith and line of sight	H5T_C_S1	39
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	59
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
<i>CLASS</i>	IMAGE	H5T_C_S1	6
<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T_C_S1	16
<i>IMAGE_MINMAXRANGE</i>	[-128,127]	H5T_STD_I8LE	2
IncidenceAngle_Pixels_MF	H5T_STD_I8LE	Number_of_Scans	
<i>Attributes</i>			
Name	Value	Type	Size
<i>long_name</i>	Incidence angle at the center of pixels	H5T_C_S1	52
<i>standard_name</i>	incidence_angle	H5T_C_S1	16
<i>units</i>	degrees	H5T_C_S1	8
<i>scale_factor</i>	0.01	H5T_C_S1	5
<i>add_offset</i>	53.0	H5T_C_S1	5

0.503

#12

#13

0.503

#14

		<i>valid_range</i>	[51.72,54.27]	H5T C S1	14
		<i>FillValue</i>	127	H5T C S1	4
		<i>comment</i>	angle between zenith and line of sight	H5T C S1	39
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	59
		<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[-128,127]	H5T STD I8LE	2
0.503	#15	IncidenceAngle_Pixels_HF		H5T_STD_I8LE	Number_of_Scans>
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Incidence angle at the center of pixels	H5T C S1	52
		<i>standard_name</i>	incidence_angle	H5T C S1	16
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	53.0	H5T C S1	5
		<i>valid_range</i>	[51.72,54.27]	H5T C S1	14
		<i>FillValue</i>	127	H5T C S1	4
		<i>comment</i>	angle between zenith and line of sight	H5T C S1	39
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	59
		<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[-128,127]	H5T STD I8LE	2
1.007		#16	TB_Pixels_18.7_H		H5T_STD_U16LE
	<i>Attributes</i>				
	<i>Name</i>		<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>		Pixels brightness temperatures at 18.7 H	H5T C S1	53
	<i>standard_name</i>		brightness_temperature	H5T C S1	23
	<i>units</i>		Kelvin	H5T C S1	7
	<i>scale_factor</i>		0.01	H5T C S1	5
	<i>add_offset</i>		0.0	H5T C S1	4
	<i>valid_range</i>		[0,400]	H5T C S1	8
	<i>FillValue</i>		65535	H5T C S1	6
	<i>quality_flag</i>		QF_Pixels_18.7_H	H5T C S1	44
	<i>comment</i>		TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T C S1	88
	<i>dimension_label</i>		Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>		Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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	#17	TB_Pixels_18.7_V		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>	Pixels brightness temperatures at 18.7 V	H5T C S1	53
		<i>standard_name</i>	brightness_temperature	H5T C S1	23
		<i>units</i>	Kelvin	H5T C S1	7
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0.0	H5T C S1	4
		<i>valid_range</i>	[0,400]	H5T C S1	8

1.007

	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_Pixels_18.7_V	H5T_C_S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
	<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
	TB_Pixels_23.8_V	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>	Pixels brightness temperatures at 23.8 V	H5T_C_S1	53
	<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale_factor</i>	0.01	H5T_C_S1	5
	<i>add_offset</i>	0.0	H5T_C_S1	4
	<i>valid_range</i>	[0,400]	H5T_C_S1	8
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_Pixels_23.8_V	H5T_C_S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
	<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
	TB_Pixels_36.5_H	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>	Pixels brightness temperatures at 36.5 H	H5T_C_S1	53
	<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale_factor</i>	0.01	H5T_C_S1	5
	<i>add_offset</i>	0.0	H5T_C_S1	4
	<i>valid_range</i>	[0,400]	H5T_C_S1	8
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_Pixels_36.5_H	H5T_C_S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
	<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
	TB_Pixels_36.5_V	H5T_STD_U16LE	Number_of_Scans	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>

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	<i>long_name</i>	Pixels brightness temperatures at 36.5 V	H5T C S1	53
	<i>standard_name</i>	brightness_temperature	H5T C S1	23
	<i>units</i>	Kelvin	H5T C S1	7
	<i>scale_factor</i>	0.01	H5T C S1	5
	<i>add_offset</i>	0.0	H5T C S1	4
	<i>valid_range</i>	[0,400]	H5T C S1	8
	<i>FillValue</i>	65535	H5T C S1	6
	<i>quality_flag</i>	QF_Pixels_36.5_V	H5T C S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T C S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	TB_Pixels_89.0_H	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>	Pixels brightness temperatures at 89.0 H	H5T C S1	53
	<i>standard_name</i>	brightness_temperature	H5T C S1	23
	<i>units</i>	Kelvin	H5T C S1	7
	<i>scale_factor</i>	0.01	H5T C S1	5
	<i>add_offset</i>	0.0	H5T C S1	4
	<i>valid_range</i>	[0,400]	H5T C S1	8
	<i>FillValue</i>	65535	H5T C S1	6
	<i>quality_flag</i>	QF_Pixels_89.0_H	H5T C S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T C S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	TB_Pixels_89.0_V	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>	Pixels brightness temperatures at 89.0 V	H5T C S1	53
	<i>standard_name</i>	brightness_temperature	H5T C S1	23
	<i>units</i>	Kelvin	H5T C S1	7
	<i>scale_factor</i>	0.01	H5T C S1	5
	<i>add_offset</i>	0.0	H5T C S1	4
	<i>valid_range</i>	[0,400]	H5T C S1	8
	<i>FillValue</i>	65535	H5T C S1	6
	<i>quality_flag</i>	QF_Pixels_89.0_V	H5T C S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T C S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78

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#22

		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
		IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
1.007	#23	TB_Pixels_157.0_H		H5T_STD_U16LE	Number_of_Scans
		Attributes			
		Name	Value	Type	Size
		long_name	Pixels brightness temperatures at 157.0 H	H5T_C_S1	53
		standard_name	brightness_temperature	H5T_C_S1	23
		units	Kelvin	H5T_C_S1	7
		scale_factor	0.01	H5T_C_S1	5
		add_offset	0.0	H5T_C_S1	4
		valid_range	[0,400]	H5T_C_S1	8
		FillValue	65535	H5T_C_S1	6
		quality_flag	QF_Pixels_157.0_H	H5T_C_S1	44
		comment	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
		dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
		geolocation_label	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4	
1.007	#24	TB_Pixels_157.0_V		H5T_STD_U16LE	Number_of_Scans
		Attributes			
		Name	Value	Type	Size
		long_name	Pixels brightness temperatures at 157.0 V	H5T_C_S1	53
		standard_name	brightness_temperature	H5T_C_S1	23
		units	Kelvin	H5T_C_S1	7
		scale_factor	0.01	H5T_C_S1	5
		add_offset	0.0	H5T_C_S1	4
		valid_range	[0,400]	H5T_C_S1	8
		FillValue	65535	H5T_C_S1	6
		quality_flag	QF_Pixels_157.0_V	H5T_C_S1	44
		comment	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
		dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
		geolocation_label	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4	
1.007	#25	QF_Pixels_18.7_H		H5T_STD_U16LE	Number_of_Scans
		Attributes			
		Name	Value	Type	Size
		long_name	Quality Flag of pixel for channel 18.7_H	H5T_C_S1	71
	standard_name	quality_flag	H5T_C_S1	13	

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		16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag		
	<i>comment</i>		H5T C S1	1
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	QF_Pixels_18.7_V	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 of pixel for channel 18.7_V	H5T C S1	71
	<i>standard_name</i>	quality flag	H5T C S1	13
		16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag		
	<i>comment</i>		H5T C S1	1
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	QF_Pixels_23.8_V	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 of pixel for channel 23.8_V	H5T C S1	71
	<i>standard_name</i>	quality flag	H5T C S1	13
		16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag		
	<i>comment</i>		H5T C S1	1
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	#28	QF_Pixels_36.5_H	H5T_STD_U16LE	Number_of_Scans>

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Attributes			
Name	Value	Type	Size
<i>long_name</i>	Quality Flag of pixel for channel 36.5_H	H5T C S1	71
<i>standard_name</i>	quality flag	H5T C S1	13
<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
<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
QF_Pixels_36.5_V	H5T_STD_U16LE	Number_of_Scans	
Attributes			
Name	Value	Type	Size
<i>long_name</i>	Quality Flag of pixel for channel 36.5_V	H5T C S1	71
<i>standard_name</i>	quality flag	H5T C S1	13
<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
<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
QF_Pixels_89.0_H	H5T_STD_U16LE	Number_of_Scans	
Attributes			
Name	Value	Type	Size
<i>long_name</i>	Quality Flag of pixel for channel 89.0_H	H5T C S1	71
<i>standard_name</i>	quality flag	H5T C S1	13
<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78

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		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
		IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
1.007	#31	QF_Pixels_89.0_V	H5T_STD_U16LE	Number_of_Scans>	
		Attributes			
		Name	Value	Type	Size
		long_name	Quality Flag of pixel for channel 89.0_V	H5T_C_S1	71
		standard_name	quality flag	H5T_C_S1	13
		comment	16-bits array (=0:good / =1:bad);, #15:TB validity flag, #14:sun glint , #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error , #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T_C_S1	1
		dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
		geolocation_label	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
		IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
1.007		#32	QF_Pixels_157.0_H	H5T_STD_U16LE	Number_of_Scans>
	Attributes				
	Name		Value	Type	Size
	long_name		Quality Flag of pixel for channel 157.0 H	H5T_C_S1	71
	standard_name		quality flag	H5T_C_S1	13
	comment		16-bits array (=0:good / =1:bad);, #15:TB validity flag, #14:sun glint , #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error , #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T_C_S1	1
	dimension_label		Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
	geolocation_label		Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
	CLASS		IMAGE	H5T_C_S1	6
	IMAGE_SUBCLASS		IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE		[0,8000]	H5T_STD_U16LE	4
1.007	#33		QF_Pixels_157.0_V	H5T_STD_U16LE	Number_of_Scans>
		Attributes			
		Name	Value	Type	Size
		long_name	Quality Flag of pixel for channel 157.0 V	H5T_C_S1	71
		standard_name	quality flag	H5T_C_S1	13

	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint , #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error , #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag		
<i>comment</i>		H5T_C_S1	1
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
<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

MADRAS**L1A3**

Estimated Size	for typical [Number_of_Scans]
21.850 Mb	[2467]

Science data group associated attributes

ScienceData

		Attributes		
Index	Name	Value	Type	Size
#1	Product_Identification	MT1MADSL1A3_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	MADRAS	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	SLC_AuxFile_Version	9_01	H5T_C_S1	5
#18	GRB_AuxFile_Version	9_01	H5T_C_S1	5
#19	UCS_AuxFile_Version	9_01	H5T_C_S1	5
#20	Number_of_Channels	9	H5T_C_S1	8
#21	Channel_CentralFrequency	18.7GHz 18.7GHz 23.8GHz 36.5GHz 36.5GHz	H5T_C_S1	74
#22	Channel_Polarization	H V V H V H V H V	H5T_C_S1	18
#23	Channel_Bandwidth	100MHz 100MHz 200MHz 500MHz 500MHz 13	H5T_C_S1	67
#24	Number_of_Resolutions	3	H5T_C_S1	8
#25	ChannelList_LF	18.7GHz 23.8GHz 36.5GHz	H5T_C_S1	24
#26	ChannelList_MF	89.0GHz	H5T_C_S1	8
#27	ChannelList_HF	157.0GHz	H5T_C_S1	9
#28	Pixel_Size_LF	[40.00,67.25]km	H5T_C_S1	16
#29	Pixel_Size_MF	[10.00,16.81]km	H5T_C_S1	16
#30	Pixel_Size_HF	[6.0,10.1]km	H5T_C_S1	13
#31	SunGlint_Limits	[0,30]degree	H5T_C_S1	13
#32	Orbit_StartNumber	00001	H5T_C_S1	19
#33	Orbit_EndNumber	00001	H5T_C_S1	17
#34	Orbit_Cycle_Number	01	H5T_C_S1	3
#35	SLConf	100001	H5T_C_S1	7
#36	Nskip	0005	H5T_C_S1	5
#37	ProcessorVersion	1.00	H5T_C_S1	5

#38	MADRAS_QF_Scan_Definition	16-bits array (=0:good, =1:bad) : #15:Scan/row validity flag, #14:pass type , #13:scanning type , #12:scan/row error , #11:datation error , #10:PRT error , #9:encoder error , #8 madras correction flag #7 to 6 blank , # 5 to 3:Payload mod , #2 to 0 :Satellite mod	H5T_C_S1	16x24
#39	MADRAS_QF_Pixel_Definition	16-bits array (=0:good / =1:bad);, #15:TB va	H5T_C_S1	16x24
#40	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#41	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#42	Flip_StartScanNumber	00000012	H5T_C_S1	9
#43	Flip_EndScanNumber	00000042	H5T_C_S1	9
#44	Maneuver_StartScanNumber	00000011	H5T_C_S1	9
#45	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#46	FirstScanNumber	00000000	H5T_C_S1	8
#47	Time_Pixel_Interval	4.2	H5T_C_S1	4
#48	Number_of_Pixels	214	H5T_C_S1	8
#49	Number_of_Scans	00002467	H5T_C_S1	8
#50	QF_Product_%Processed_Scans	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]
0.005

Index	Name	Type	Typical Value	
#1	MADRAS_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 validity flag, #14:pass type , #13:scanning type , #12:scan/row error , #11:datation error , #10:PRT error , #9:encoder error , #8 madras correction flag #7 to 6 blank , # 5 to 3:Payload mod , #2 to 0 :Satellite mod	H5T_C_S1	29
	<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16
#2	<i>geolocation_label</i>	Scan_FirstPixelAcqTime	H5T_C_S1	54
	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	

0.005

		<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
0.005	#3	Latitude_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>	latitude of subsatellite point	H5T_C_S1	31
		<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>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
		<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16
0.005		#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
0.005	#5		Scan_HotLoadTemperature	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>	Hot load temperature	H5T_C_S1	21
		<i>units</i>	Kelvin	H5T_C_S1	7
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	0.0	H5T_C_S1	4
		<i>valid_range</i>	[0.0,400.0]	H5T_C_S1	12
		<i>min_max</i>	[0,40000]	H5T_C_S1	10
		<i>FillValue</i>	65535	H5T_C_S1	6
		<i>comment</i>	Estimated average physical temperature of the hot load used for TB calculation	H5T_C_S1	79
		<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16
		<i>geolocation_label</i>	Scan_FirstPixelAcqTime	H5T_C_S1	54
0.085		#6	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/K	H5T_C_S1	8
	<i>scale_factor</i>		1.0	H5T_C_S1	4
	<i>add_offset</i>	0.0	H5T_C_S1	4	

		<i>valid_range</i>	[5.0,13.0]	H5T_C_S1	21	
		<i>min_max</i>	[5.0,13.0]	H5T_C_S1	21	
		<i>FillValue</i>	3.4E38	H5T_C_S1	7	
		<i>comment</i>	Estimated gain value applied to TB calculation for each channels in the following sequence: 18.7H, 18.7V, 23.8 V,36.5H, 36.5V, 89.0H, 89.0V, 157.0H, 157.0V	H5T_C_S1	124	
		<i>dimension_label</i>	Number_of_Scans, Number_of_Channels	H5T_C_S1	36	
0.085	#7	Scan_Offset	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 offset	H5T_C_S1	17	
		<i>units</i>	Kelvin	H5T_C_S1	7	
		<i>scale_factor</i>	1.0	H5T_C_S1	4	
		<i>add_offset</i>	0.0	H5T_C_S1	4	
		<i>valid_range</i>	[0.0,150.0]	H5T_C_S1	23	
		<i>min_max</i>	[0.0,150.0]	H5T_C_S1	23	
		<i>FillValue</i>	3.4E38	H5T_C_S1	7	
		<i>comment</i>	Estimated offset value used for TB calculation for each channels in the following sequence: 18.7H, 18.7V, 23.8 V,36.5H, 36.5V, 89.0H, 89.0V, 157.0H, 157.0V	H5T_C_S1	113	
	<i>dimension_label</i>	Number_of_Scans, Number_of_Channels	H5T_C_S1	36		
0.002	#8	Scan_FirstPixelAcqTime_LF	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>	yyyyymmdd hhmmssuuuuuu	H5T_C_S1	22	
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T_C_S1	30	
	<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
0.002	#9	Scan_FirstPixelAcqTime_MF	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>	yyyyymmdd hhmmssuuuuuu	H5T_C_S1	22	
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T_C_S1	30	
	<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
0.002	#10	Scan_FirstPixelAcqTime_HF	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>	yyyyymmdd hhmmssuuuuuu	H5T_C_S1	22	
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T_C_S1	30	
	<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
1.007	#11	Latitude_Pixels	H5T_STD_U16LE	Number_of_Scans		
	<i>Attributes</i>					

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Name	Value	Type	Size
<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
Longitude_Pixels	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
Name	Value	Type	Size
<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>	0.0	H5T_C_S1	4
<i>valid_range</i>	[0.0,360.0]	H5T_C_S1	12
<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	59
<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
IncidenceAngle_Pixels_LF	H5T_STD_I8LE	Number_of_Scans	
<i>Attributes</i>			
Name	Value	Type	Size
<i>long_name</i>	Incidence angle at the center of pixels	H5T_C_S1	52
<i>standard_name</i>	incidence_angle	H5T_C_S1	16
<i>units</i>	degrees	H5T_C_S1	8
<i>scale_factor</i>	0.01	H5T_C_S1	5
<i>add_offset</i>	53.0	H5T_C_S1	5
<i>valid_range</i>	[51.72,54.27]	H5T_C_S1	14
<i>FillValue</i>	127	H5T_C_S1	4
<i>comment</i>	angle between zenith and line of sight	H5T_C_S1	39
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	59
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
<i>CLASS</i>	IMAGE	H5T_C_S1	6
<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T_C_S1	16
<i>IMAGE_MINMAXRANGE</i>	[-128,127]	H5T_STD_I8LE	2
IncidenceAngle_Pixels_MF	H5T_STD_I8LE	Number_of_Scans	
<i>Attributes</i>			
Name	Value	Type	Size
<i>long_name</i>	Incidence angle at the center of pixels	H5T_C_S1	52
<i>standard_name</i>	incidence_angle	H5T_C_S1	16
<i>units</i>	degrees	H5T_C_S1	8
<i>scale_factor</i>	0.01	H5T_C_S1	5
<i>add_offset</i>	53.0	H5T_C_S1	5

0.503

#12

#13

0.503

#14

		<i>valid_range</i>	[51.72,54.27]	H5T C S1	14
		<i>FillValue</i>	127	H5T C S1	4
		<i>comment</i>	angle between zenith and line of sight	H5T C S1	39
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	59
		<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[-128,127]	H5T STD I8LE	2
0.503	#15	IncidenceAngle_Pixels_HF		H5T_STD_I8LE	Number_of_Scans
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Incidence angle at the center of pixels	H5T C S1	52
		<i>standard_name</i>	incidence_angle	H5T C S1	16
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	53.0	H5T C S1	5
		<i>valid_range</i>	[51.72,54.27]	H5T C S1	14
		<i>FillValue</i>	127	H5T C S1	4
		<i>comment</i>	angle between zenith and line of sight	H5T C S1	39
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	59
		<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[-128,127]	H5T STD I8LE	2
1.007		#16	TB_Pixels_18.7_H		H5T_STD_U16LE
	<i>Attributes</i>				
	<i>Name</i>		<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>		Pixels brightness temperatures at 18.7 H	H5T C S1	53
	<i>standard_name</i>		brightness_temperature	H5T C S1	23
	<i>units</i>		Kelvin	H5T C S1	7
	<i>scale_factor</i>		0.01	H5T C S1	5
	<i>add_offset</i>		0.0	H5T C S1	4
	<i>valid_range</i>		[0,400]	H5T C S1	8
	<i>FillValue</i>		65535	H5T C S1	6
	<i>quality_flag</i>		QF_Pixels_18.7_H	H5T C S1	44
	<i>comment</i>		TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T C S1	88
	<i>dimension_label</i>		Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>		Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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	#17	TB_Pixels_18.7_V		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>	Pixels brightness temperatures at 18.7 V	H5T C S1	53
		<i>standard_name</i>	brightness_temperature	H5T C S1	23
		<i>units</i>	Kelvin	H5T C S1	7
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0.0	H5T C S1	4
		<i>valid_range</i>	[0,400]	H5T C S1	8

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	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_Pixels_18.7_V	H5T_C_S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
	<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
	TB_Pixels_23.8_V	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>	Pixels brightness temperatures at 23.8 V	H5T_C_S1	53
	<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale_factor</i>	0.01	H5T_C_S1	5
	<i>add_offset</i>	0.0	H5T_C_S1	4
	<i>valid_range</i>	[0,400]	H5T_C_S1	8
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_Pixels_23.8_V	H5T_C_S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
	<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
	TB_Pixels_36.5_H	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>	Pixels brightness temperatures at 36.5 H	H5T_C_S1	53
	<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale_factor</i>	0.01	H5T_C_S1	5
	<i>add_offset</i>	0.0	H5T_C_S1	4
	<i>valid_range</i>	[0,400]	H5T_C_S1	8
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_Pixels_36.5_H	H5T_C_S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
	<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
	TB_Pixels_36.5_V	H5T_STD_U16LE	Number_of_Scans	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>

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	<i>long_name</i>	Pixels brightness temperatures at 36.5 V	H5T C S1	53
	<i>standard_name</i>	brightness_temperature	H5T C S1	23
	<i>units</i>	Kelvin	H5T C S1	7
	<i>scale_factor</i>	0.01	H5T C S1	5
	<i>add_offset</i>	0.0	H5T C S1	4
	<i>valid_range</i>	[0,400]	H5T C S1	8
	<i>FillValue</i>	65535	H5T C S1	6
	<i>quality_flag</i>	QF_Pixels_36.5_V	H5T C S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T C S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	TB_Pixels_89.0_H	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>	Pixels brightness temperatures at 89.0 H	H5T C S1	53
	<i>standard_name</i>	brightness_temperature	H5T C S1	23
	<i>units</i>	Kelvin	H5T C S1	7
	<i>scale_factor</i>	0.01	H5T C S1	5
	<i>add_offset</i>	0.0	H5T C S1	4
	<i>valid_range</i>	[0,400]	H5T C S1	8
	<i>FillValue</i>	65535	H5T C S1	6
	<i>quality_flag</i>	QF_Pixels_89.0_H	H5T C S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T C S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	TB_Pixels_89.0_V	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>	Pixels brightness temperatures at 89.0 V	H5T C S1	53
	<i>standard_name</i>	brightness_temperature	H5T C S1	23
	<i>units</i>	Kelvin	H5T C S1	7
	<i>scale_factor</i>	0.01	H5T C S1	5
	<i>add_offset</i>	0.0	H5T C S1	4
	<i>valid_range</i>	[0,400]	H5T C S1	8
	<i>FillValue</i>	65535	H5T C S1	6
	<i>quality_flag</i>	QF_Pixels_89.0_V	H5T C S1	44
	<i>comment</i>	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T C S1	88
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78

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#21

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#22

		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
		IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
1.007	#23	TB_Pixels_157.0_H		H5T_STD_U16LE	Number_of_Scans
		Attributes			
		Name	Value	Type	Size
		long_name	Pixels brightness temperatures at 157.0 H	H5T_C_S1	53
		standard_name	brightness_temperature	H5T_C_S1	23
		units	Kelvin	H5T_C_S1	7
		scale_factor	0.01	H5T_C_S1	5
		add_offset	0.0	H5T_C_S1	4
		valid_range	[0,400]	H5T_C_S1	8
		FillValue	65535	H5T_C_S1	6
		quality_flag	QF_Pixels_157.0_H	H5T_C_S1	44
		comment	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
		dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
		geolocation_label	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4	
1.007	#24	TB_Pixels_157.0_V		H5T_STD_U16LE	Number_of_Scans
		Attributes			
		Name	Value	Type	Size
		long_name	Pixels brightness temperatures at 157.0 V	H5T_C_S1	53
		standard_name	brightness_temperature	H5T_C_S1	23
		units	Kelvin	H5T_C_S1	7
		scale_factor	0.01	H5T_C_S1	5
		add_offset	0.0	H5T_C_S1	4
		valid_range	[0,400]	H5T_C_S1	8
		FillValue	65535	H5T_C_S1	6
		quality_flag	QF_Pixels_157.0_V	H5T_C_S1	44
		comment	TB interpolated from L1A1 TB samples (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	88
		dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
		geolocation_label	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4	
1.007	#25	QF_Pixels_18.7_H		H5T_STD_U16LE	Number_of_Scans
		Attributes			
		Name	Value	Type	Size
		long_name	Quality Flag of pixel for channel 18.7_H	H5T_C_S1	71
	standard_name	quality_flag	H5T_C_S1	13	

1.007

		16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag		
	<i>comment</i>		H5T C S1	1
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	QF_Pixels_18.7_V	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 of pixel for channel 18.7_V	H5T C S1	71
	<i>standard_name</i>	quality flag	H5T C S1	13
		16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag		
	<i>comment</i>		H5T C S1	1
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	QF_Pixels_23.8_V	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 of pixel for channel 23.8_V	H5T C S1	71
	<i>standard_name</i>	quality flag	H5T C S1	13
		16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag		
	<i>comment</i>		H5T C S1	1
	<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
	<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
	<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
	#28	QF_Pixels_36.5_H	H5T_STD_U16LE	Number_of_Scans>

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Attributes			
Name	Value	Type	Size
<i>long_name</i>	Quality Flag of pixel for channel 36.5_H	H5T C S1	71
<i>standard_name</i>	quality flag	H5T C S1	13
<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
<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
QF_Pixels_36.5_V	H5T_STD_U16LE	Number_of_Scans	
Attributes			
Name	Value	Type	Size
<i>long_name</i>	Quality Flag of pixel for channel 36.5_V	H5T C S1	71
<i>standard_name</i>	quality flag	H5T C S1	13
<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78
<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
QF_Pixels_89.0_H	H5T_STD_U16LE	Number_of_Scans	
Attributes			
Name	Value	Type	Size
<i>long_name</i>	Quality Flag of pixel for channel 89.0_H	H5T C S1	71
<i>standard_name</i>	quality flag	H5T C S1	13
<i>comment</i>	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T C S1	1
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	56
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T C S1	78

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1.007	#31	CLASS	IMAGE	H5T_C_S1	6		
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16		
		IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4		
		QF_Pixels_89.0_V		H5T_STD_U16LE	Number_of_Scans		
		Attributes					
			Name	Value	Type	Size	
			long_name	Quality Flag of pixel for channel 89.0_V	H5T_C_S1	71	
			standard_name	quality flag	H5T_C_S1	13	
			comment	16-bits array (=0:good / =1:bad);, #15:TB validity flag, #14:sun glint , #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error , #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T_C_S1	1	
			dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56	
			geolocation_label	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78	
			CLASS	IMAGE	H5T_C_S1	6	
		1.007	#32	IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
IMAGE_MINMAXRANGE	[0,8000]			H5T_STD_U16LE	4		
QF_Pixels_157.0_H				H5T_STD_U16LE	Number_of_Scans		
Attributes							
	Name			Value	Type	Size	
	long_name			Quality Flag of pixel for channel 157.0 H	H5T_C_S1	71	
	standard_name			quality flag	H5T_C_S1	13	
	comment			16-bits array (=0:good / =1:bad);, #15:TB validity flag, #14:sun glint , #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error , #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag	H5T_C_S1	1	
	dimension_label			Number_of_Scans, Number_of_Pixels	H5T_C_S1	56	
	geolocation_label			Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78	
	CLASS			IMAGE	H5T_C_S1	6	
1.007	#33			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
				IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
		QF_Pixels_157.0_V		H5T_STD_U16LE	Number_of_Scans		
		Attributes					
			Name	Value	Type	Size	
			long_name	Quality Flag of pixel for channel 157.0 V	H5T_C_S1	71	
			standard_name	quality flag	H5T_C_S1	13	

	16-bits array (=0:good / =1:bad); #15:TB validity flag, #14:sun glint, #13: Land/Sea contamination, #12: surface type, #11:Channel ON/OFF status, #10:Level 0 count error, #9 Level 0 hot or cold error, #8: geolocation poor estimation, #7-6: calibration flag, #5-4: TB corrected, #3: interpolation quality, #2: AGC/AOC loop, #1-0:ice flag		
<i>comment</i>		H5T_C_S1	1
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T_C_S1	56
<i>geolocation_label</i>	Latitude_Pixels, Longitude_Pixels	H5T_C_S1	78
<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

MADRAS**L1B**

Estimated Size	for typical [Number_of_Rows_5km, Number_of_Rows_10km]
76.786 Mb	[7674,3837]

Science data group associated attributes

ScienceData

		Attributes		
Index	Name	Value	Type	Size
#1	Product_Identification	MT1MADSL1B_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	MADRAS	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	SLC_AuxFile_Version	9_01	H5T_C_S1	5
#18	GRB_AuxFile_Version	9_01	H5T_C_S1	5
#19	UCS_AuxFile_Version	9_01	H5T_C_S1	5
#20	Number_of_Channels	9	H5T_C_S1	8
#21	Channel_CentralFrequency	[018.7 GHz,018.7 GHz,023.8 GHz,036.5 GHz,0	H5T_C_S1	92
#22	Channel_Polarization	[H,V,V,H,V,H,V,H,V]	H5T_C_S1	20
#23	Channel_Bandwidth	[100 MHz,100 MHz,200 MHz,500 MHz,500 MHz]	H5T_C_S1	78
#24	Number_of_Resolutions	3	H5T_C_S1	8
#25	ChannelList_LF	[18.7 GHz, 23.8 GHz, 36.5 GHz]	H5T_C_S1	31
#26	ChannelList_MF	[89.0 GHz]	H5T_C_S1	11
#27	ChannelList_HF	[157.0 GHz]	H5T_C_S1	12
#28	GridFrequencyList_5km	[157 GHz]	H5T_C_S1	10
#29	GridFrequencyList_10km	[18.7 GHz,23.8 GHz,36.5 GHz,89.0 GHz]	H5T_C_S1	38
#30	SunGlint_Limits	[0,30]degrees	H5T_C_S1	15
#31	Orbit_StartNumber	00001	H5T_C_S1	19
#32	Orbit_EndNumber	00001	H5T_C_S1	17
#33	Orbit_Cycle_Number	01	H5T_C_S1	3
#34	SLConf	100001	H5T_C_S1	7
#35	Nskip	0005	H5T_C_S1	5
#36	ProcessorVersion	1.00	H5T_C_S1	5

#37	MADRAS_QF_Row_Definition	16-bits array (=0:good, =1:bad) : #15:Scan/row validity flag, #14:pass type , #13:scanning type , #12:scan/row error , #11:datation error , #10:PRT error , #9:encoder error , #8 madras correction flag #7 to 6 blank , # 5 to 3:Payload mod , #2 to 0 :Satellite mod	H5T_C_S1	16x24
#38	MADRAS_QF_Cell_Definition	16-bits array (=0:good / =1:bad);, #15:TB va	H5T_C_S1	16x24
#39	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#40	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#41	Flip_StartScanNumber	00000012	H5T_C_S1	9
#42	Flip_EndScanNumber	00000042	H5T_C_S1	9
#43	Maneuver_StartScanNumber	00000011	H5T_C_S1	9
#44	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#45	Number_of_Rows_5km	7674	H5T_C_S1	8
#46	Number_of_Columns_5km	361	H5T_C_S1	8
#47	Number_of_Rows_10km	3837	H5T_C_S1	8
#48	Number_of_Columns_10km	181	H5T_C_S1	8
#49	Number_of_Processed_Rows_5km	7500	H5T_C_S1	8
#50	Number_of_Processed_Rows_10km	3830	H5T_C_S1	8
#51	QF_Product_%Processed_Rows_5	099	H5T_C_S1	4
#52	QF_Product_%Processed_Rows_1	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]	Index	Name	Type	Typical Value	
0.007	#1	Row_MADRAS_QF_10km	H5T_STD_U16LE	Number_of_Rows_10km	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Quality flag applicable to the row line	H5T_C_S1	40
		<i>comment</i>	16-bits array (=0:good, =1:bad) : #0: scan/row quality flag validity, #1: pass type, #2: Scanning type, #3: Scan/Row error out of limits, #4: datation error, #5: PRT error, #6: encoder error, #7: AGC/AOC loop, #8-9: Blank, #10-12: payload mode, #13-15: satellite mode	H5T_C_S1	274
		<i>dimension_label</i>	Number_of_Rows_10km	H5T_C_S1	20
		<i>geolocation_label</i>	Row_StartTime_10km_LF	H5T_C_S1	22
0.015	#2	Row_MADRAS_QF_5km	H5T_STD_U16LE	Number_of_Rows_5km	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Quality flag applicable to the row line	H5T_C_S1	40

		16-bits array (=0:good, =1:bad) : #0: scan/row quality flag validity, #1: pass type, #2: Scanning type, #3: Scan/Row error out of limits, #4: datation error, #5: PRT error, #6: encoder error, #7: AGC/AOC loop, #8-9: Blank, #10-12: payload mode, #13-15: satellite mode			
		<i>comment</i>	H5T C S1	274	
		<i>dimension label</i>	Number_of_Rows_5km	19	
		<i>geolocation label</i>	Row_StartTime_5km_157	22	
0.029		Row_Number_5km	H5T_STD_U32LE	Number_of_Rows_!	
	#3	<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	
		<i>long_name</i>	Row Number (5km grid)	H5T C S1	29
		<i>comment</i>	Row Number (5km grid)	H5T C S1	29
		<i>dimension label</i>	Number_of_Rows_5km	H5T C S1	26
0.015		Row_Number_10km	H5T_STD_U32LE	Number_of_Rows_!	
	#4	<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	
		<i>long_name</i>	Row Number (10km grid)	H5T C S1	29
		<i>comment</i>	Row Number (10km grid)	H5T C S1	29
		<i>dimension label</i>	Number_of_Rows_10km	H5T C S1	26
0.004		Row_FirstCellAcqTime_10km_LF	H5T_C_S1	Number_of_Rows_!	
	#5	<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	
		<i>long_name</i>	date for the first cell of the row (10km grid) for LF channels	H5T C S1	105
		<i>standard_name</i>	time	H5T C S1	5
		<i>units</i>	UTC Time in microseconds	H5T C S1	25
		<i>FillValue</i>	yyyyymmdd hhmmssuuuuuu	H5T C S1	22
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T C S1	32
		<i>dimension label</i>	Number_of_Rows_10km	H5T C S1	37
0.004		Row_FirstCellAcqTime_10km_MF	H5T_C_S1	Number_of_Rows_!	
	#6	<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	
		<i>long_name</i>	date for the first cell of the row (10km grid) for MF channels	H5T C S1	105
		<i>standard_name</i>	time	H5T C S1	5
		<i>units</i>	UTC Time in microseconds	H5T C S1	25
		<i>FillValue</i>	yyyyymmdd hhmmssuuuuuu	H5T C S1	22
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T C S1	32
		<i>dimension label</i>	Number_of_Rows_10km	H5T C S1	37
0.007		Row_FirstCellAcqTime_5km_HF	H5T_C_S1	Number_of_Rows_!	
	#7	<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	
		<i>long_name</i>	date for the first cell of the row (5km grid) for HF channels	H5T C S1	105
		<i>standard_name</i>	time	H5T C S1	5
		<i>units</i>	UTC Time in microseconds	H5T C S1	25
		<i>FillValue</i>	yyyyymmdd hhmmssuuuuuu	H5T C S1	22
		<i>comment</i>	format: yyyyymmdd hhmmssuuuuuu	H5T C S1	32
		<i>dimension label</i>	Number_of_Rows_5km	H5T C S1	37
1.325		Cell_population_10km_18.7H	H5T_STD_U16LE	Number_of_Rows_!	
	#8	<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	
		<i>Size</i>			

		<i>long_name</i>	Cell population for channel 18.7	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_10km, Number_of_Columns_10km	H5T_C_S1	82
		<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
		<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
1.325		Cell_population_10km_18.7V	H5T_STD_U16LE	Number_of_Rows_	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	#9	<i>long_name</i>	Cell population for channel 18.7	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_10km, Number_of_Columns_10km	H5T_C_S1	82
		<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
		<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
1.325		Cell_population_10km_23.8V	H5T_STD_U16LE	Number_of_Rows_	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	#10	<i>long_name</i>	Cell population for channel 23.8	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_10km, Number_of_Columns_10km	H5T_C_S1	82
		<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
		<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
1.325		Cell_population_10km_36.5H	H5T_STD_U16LE	Number_of_Rows_	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	#11	<i>long_name</i>	Cell population for channel 36.5	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_10km, Number_of_Columns_10km	H5T_C_S1	82
		<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
		<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
1.325		Cell_population_10km_36.5V	H5T_STD_U16LE	Number_of_Rows_	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	#12	<i>long_name</i>	Cell population for channel 36.5	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_10km, Number_of_Columns_10km	H5T_C_S1	82	
		<i>geolocation label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88	
		<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	
1.325	#13	Cell_population_10km_89.0H	H5T_STD_U16LE	Number_of_Rows_		
		<i>Attributes</i>				
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>	
		<i>long_name</i>	Cell population for channel 89.0	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_10km, Number_of_Columns_10km	H5T_C_S1	82	
		<i>geolocation label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88	
		<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	
1.325		#14	Cell_population_10km_89.0V	H5T_STD_U16LE	Number_of_Rows_	
			<i>Attributes</i>			
	<i>Name</i>		<i>Value</i>	<i>Type</i>	<i>Size</i>	
	<i>long_name</i>		Cell population for channel 89.0	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_10km, Number_of_Columns_10km	H5T_C_S1	82	
	<i>geolocation label</i>		Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88	
	<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	
5.284	#15		Cell_population_5km_157.0H	H5T_STD_U16LE	Number_of_Rows_	
			<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>	
		<i>long_name</i>	Cell population for channel 157.0	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_5km, Number_of_Columns_5km	H5T_C_S1	82	
		<i>geolocation label</i>	Latitude_Cells_5km, Longitude_Cells_5km	H5T_C_S1	88	
		<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	
5.284		#16	Cell_population_5km_157.0V	H5T_STD_U16LE	Number_of_Rows_	
			<i>Attributes</i>			
	<i>Name</i>		<i>Value</i>	<i>Type</i>	<i>Size</i>	
	<i>long_name</i>		Cell population for channel 157.0	H5T_C_S1	52	
	<i>FillValue</i>		65535	H5T_C_S1	6	
	<i>comment</i>		number of samples per Cell	H5T_C_S1	40	

5.284	#17	dimension_label	Number_of_Rows_5km, Number_of_Columns_5km	H5T_C_S1	82
		geolocation_label	Latitude_Cells_5km, Longitude_Cells_5km	H5T_C_S1	88
		CLASS	IMAGE	H5T_C_S1	6
		IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
		IMAGE_MINMAXRANGE	[0,65535]	H5T_STD_U16LE	4
		Latitude_Cells_5km		H5T_STD_U16LE	Number_of_Rows_!
		Attributes			
		Name	Value	Type	Size
		long_name	latitude of cells (5km grid)	H5T_C_S1	49
		standard_name	latitude	H5T_C_S1	9
units	degrees	H5T_C_S1	8		
scale_factor	0.01	H5T_C_S1	5		
add_offset	-40	H5T_C_S1	4		
valid_range	[-40,40]	H5T_C_S1	9		
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_Rows_5km, Number_of_Columns_5km	H5T_C_S1	56		
CLASS	IMAGE	H5T_C_S1	6		
IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16		
IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4		
1.325	#18	Latitude_Cells_10km	H5T_STD_U16LE	Number_of_Rows_!	
		Attributes			
		Name	Value	Type	Size
		long_name	latitude of cells (10km grid)	H5T_C_S1	49
		standard_name	latitude	H5T_C_S1	9
		units	degrees	H5T_C_S1	8
		scale_factor	0.01	H5T_C_S1	5
		add_offset	-40	H5T_C_S1	4
		valid_range	[-40,40]	H5T_C_S1	9
		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_Rows_10km, Number_of_Columns_10km	H5T_C_S1	56		
CLASS	IMAGE	H5T_C_S1	6		
IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16		
IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4		
5.284	#19	Longitude_Cells_5km	H5T_STD_U16LE	Number_of_Rows_!	
		Attributes			
		Name	Value	Type	Size
		long_name	longitude of cells (5km grid)	H5T_C_S1	50
		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	[0,360]	H5T_C_S1	8
		min_max	[0,36000]	H5T_C_S1	10
FillValue	65535	H5T_C_S1	6		

1.325

		<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T_C_S1	59
		<i>dimension label</i>	Number_of_Rows_5km, Number_of_Columns_5km	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
		Longitude_Cells_10km	H5T_STD_U16LE	Number_of_Rows_	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	longitude of cells (10km 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_10km, Number_of_Columns_10km	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
		IncidenceAngle_Cells_10km_LF	H5T_STD_I8LE	Number_of_Rows_	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Incidence angle at the center of the cell for LF channels	H5T_C_S1	83
		<i>standard_name</i>	incidence_angle	H5T_C_S1	16
		<i>units</i>	degrees	H5T_C_S1	8
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	53.0	H5T_C_S1	5
		<i>valid_range</i>	[51.72,54.27]	H5T_C_S1	14
		<i>FillValue</i>	127	H5T_C_S1	4
		<i>comment</i>	angle between zenith and line of sight	H5T_C_S1	39
		<i>dimension label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	78
		<i>geolocation label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	84
		<i>CLASS</i>	IMAGE	H5T_C_S1	6
		<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T_C_S1	16
		<i>IMAGE MINMAXRANGE</i>	[-128,127]	H5T STD_I8LE	2
		IncidenceAngle_Cells_10km_MF	H5T_STD_I8LE	Number_of_Rows_	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Incidence angle at the center of the cell for MF channels	H5T_C_S1	83
		<i>standard_name</i>	incidence_angle	H5T_C_S1	16
		<i>units</i>	degrees	H5T_C_S1	8
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	53.0	H5T_C_S1	5

0.662

#20

#21

0.662

#22

2.642

	<i>valid range</i>	[51.72,54.27]	H5T C S1	14
	<i>FillValue</i>	127	H5T C S1	4
	<i>comment</i>	angle between zenith and line of sight	H5T C S1	39
	<i>dimension label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T C S1	78
	<i>geolocation label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T C S1	84
	<i>CLASS</i>	IMAGE	H5T C S1	6
	<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
	<i>IMAGE MINMAXRANGE</i>	[-128,127]	H5T STD I8LE	2
	IncidenceAngle_Cells_5km_HF	H5T_STD_I8LE	Number_of_Rows_!	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long name</i>	Incidence angle at the center of the cell for HF channels	H5T C S1	83
	<i>standard name</i>	incidence_angle	H5T C S1	16
	<i>units</i>	degrees	H5T C S1	8
	<i>scale factor</i>	0.01	H5T C S1	5
	<i>add offset</i>	53.0	H5T C S1	5
	<i>valid range</i>	[51.72,54.27]	H5T C S1	14
	<i>FillValue</i>	127	H5T C S1	4
	<i>comment</i>	angle between zenith and line of sight	H5T C S1	39
	<i>dimension label</i>	Number_of_Rows_5km, Number_of_Columns_5km	H5T C S1	78
	<i>geolocation label</i>	Latitude_Cells_5km, Longitude_Cells_5km	H5T C S1	84
	<i>CLASS</i>	IMAGE	H5T C S1	6
	<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
	<i>IMAGE MINMAXRANGE</i>	[-128,127]	H5T STD I8LE	2
	TB_Cells_18.7_H	H5T_STD_U16LE	Number_of_Rows_!	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long name</i>	Pixels brightness temperatures at 18.7H	H5T C S1	63
	<i>standard name</i>	brightness_temperature	H5T C S1	23
	<i>units</i>	Kelvin	H5T C S1	7
	<i>scale factor</i>	0.01	H5T C S1	5
	<i>add offset</i>	0.0	H5T C S1	4
	<i>valid range</i>	[0,400]	H5T C S1	8
	<i>min max</i>	[0,40000]	H5T C S1	10
	<i>FillValue</i>	65535	H5T C S1	6
	<i>quality flag</i>	QF_cells_18.7_H	H5T C S1	52
	<i>comment</i>	TB interpolated on all-instruments common grid (10km grid) (see additional geometrical information in attributes of MADRAS)	H5T C S1	149
	<i>dimension label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T C S1	82
	<i>geolocation label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T C S1	88
	<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
	TB_Cells_18.7_V	H5T_STD_U16LE	Number_of_Rows_!	
	<i>Attributes</i>			

1.325

1.325

Name	Value	Type	Size
<i>long_name</i>	Pixels brightness temperatures at 18.7V	H5T_C_S1	63
<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
<i>units</i>	Kelvin	H5T_C_S1	7
<i>scale_factor</i>	0.01	H5T_C_S1	5
<i>add_offset</i>	0.0	H5T_C_S1	4
<i>valid_range</i>	[0,400]	H5T_C_S1	8
<i>min_max</i>	[0,40000]	H5T_C_S1	10
<i>FillValue</i>	65535	H5T_C_S1	6
<i>quality_flag</i>	QF_cells_18.7_V	H5T_C_S1	52
<i>comment</i>	TB interpolated on all-instruments common grid (10km grid) (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	149
<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
<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
TB_Cells_23.8_V H5T_STD_U16LE Number_of_Rows			
<i>Attributes</i>			
Name	Value	Type	Size
<i>long_name</i>	Pixels brightness temperatures at 23.8V	H5T_C_S1	63
<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
<i>units</i>	Kelvin	H5T_C_S1	7
<i>scale_factor</i>	0.01	H5T_C_S1	5
<i>add_offset</i>	0.0	H5T_C_S1	4
<i>valid_range</i>	[0,400]	H5T_C_S1	8
<i>min_max</i>	[0,40000]	H5T_C_S1	10
<i>FillValue</i>	65535	H5T_C_S1	6
<i>quality_flag</i>	QF_cells_23.8_V	H5T_C_S1	52
<i>comment</i>	TB interpolated on all-instruments common grid (10km grid) (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	149
<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
<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
TB_Cells_36.5_H H5T_STD_U16LE Number_of_Rows			
<i>Attributes</i>			
Name	Value	Type	Size
<i>long_name</i>	Pixels brightness temperatures at 36.5H	H5T_C_S1	63
<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
<i>units</i>	Kelvin	H5T_C_S1	7
<i>scale_factor</i>	0.01	H5T_C_S1	5
<i>add_offset</i>	0.0	H5T_C_S1	4
<i>valid_range</i>	[0,400]	H5T_C_S1	8
<i>min_max</i>	[0,40000]	H5T_C_S1	10
<i>FillValue</i>	65535	H5T_C_S1	6

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	<i>quality_flag</i>	QF_cells_36.5_H	H5T_C_S1	52
	<i>comment</i>	TB interpolated on all-instruments common grid (10km grid) (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	149
	<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
	<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
	<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
	TB_Cells_36.5_V	H5T_STD_U16LE	Number_of_Rows	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>	Pixels brightness temperatures at 36.5V	H5T_C_S1	63
	<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale_factor</i>	0.01	H5T_C_S1	5
	<i>add_offset</i>	0.0	H5T_C_S1	4
	<i>valid_range</i>	[0,400]	H5T_C_S1	8
	<i>min_max</i>	[0,40000]	H5T_C_S1	10
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_cells_36.5_V	H5T_C_S1	52
	<i>comment</i>	TB interpolated on all-instruments common grid (10km grid) (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	149
	<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
	<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
	<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
	TB_Cells_89.0_H	H5T_STD_U16LE	Number_of_Rows	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>	Pixels brightness temperatures at 89.0H	H5T_C_S1	63
	<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale_factor</i>	0.01	H5T_C_S1	5
	<i>add_offset</i>	0.0	H5T_C_S1	4
	<i>valid_range</i>	[0,400]	H5T_C_S1	8
	<i>min_max</i>	[0,40000]	H5T_C_S1	10
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_cells_89.0_H	H5T_C_S1	52
	<i>comment</i>	TB interpolated on all-instruments common grid (10km grid) (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	149
	<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
	<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
	<i>CLASS</i>	IMAGE	H5T_C_S1	6

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	<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T_C_S1	16
	<i>IMAGE_MINMAXRANGE</i>	[0,40000]	H5T_STD_U16LE	4
	TB_Cells_89.0_V	H5T_STD_U16LE	Number_of_Rows_!	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>	Pixels brightness temperatures at 89.0V	H5T_C_S1	63
	<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale_factor</i>	0.01	H5T_C_S1	5
	<i>add_offset</i>	0.0	H5T_C_S1	4
	<i>valid_range</i>	[0,400]	H5T_C_S1	8
	<i>min_max</i>	[0,40000]	H5T_C_S1	10
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_cells_89.0_V	H5T_C_S1	52
	<i>comment</i>	TB interpolated on all-instruments common grid (10km grid) (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	149
	<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
	<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
	<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
	TB_Cells_157.0_H	H5T_STD_U16LE	Number_of_Rows_!	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>	Pixels brightness temperatures at 157.0 H	H5T_C_S1	63
	<i>standard_name</i>	brightness_temperature	H5T_C_S1	23
	<i>units</i>	Kelvin	H5T_C_S1	7
	<i>scale_factor</i>	0.01	H5T_C_S1	5
	<i>add_offset</i>	0.0	H5T_C_S1	4
	<i>valid_range</i>	[0,400]	H5T_C_S1	8
	<i>min_max</i>	[0,40000]	H5T_C_S1	10
	<i>FillValue</i>	65535	H5T_C_S1	6
	<i>quality_flag</i>	QF_cells_157.0_H	H5T_C_S1	52
	<i>comment</i>	TB interpolated on all-instruments common grid (5km grid) (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	149
	<i>dimension_label</i>	Number_of_Rows_5km, Number_of_Columns_5km	H5T_C_S1	82
	<i>geolocation_label</i>	Latitude_Cells_5km, Longitude_Cells_5km	H5T_C_S1	88
	<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
	TB_Cells_157.0_V	H5T_STD_U16LE	Number_of_Rows_!	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>	Pixels brightness temperatures at 157.0 V	H5T_C_S1	63
	<i>standard_name</i>	brightness_temperature	H5T_C_S1	23

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<i>units</i>	Kelvin	H5T_C_S1	7
<i>scale factor</i>	0.01	H5T_C_S1	5
<i>add_offset</i>	0.0	H5T_C_S1	4
<i>valid range</i>	[0,400]	H5T_C_S1	8
<i>min_max</i>	[0,40000]	H5T_C_S1	10
<i>FillValue</i>	65535	H5T_C_S1	6
<i>quality flag</i>	QF_cells_157.0_V	H5T_C_S1	52
<i>comment</i>	TB interpolated on all-instruments common grid (5km grid) (see additional geometrical information in attributes of MADRAS)	H5T_C_S1	149
<i>dimension label</i>	Number_of_Rows_5km, Number_of_Columns_5km	H5T_C_S1	82
<i>geolocation label</i>	Latitude_Cells_5km, Longitude_Cells_5km	H5T_C_S1	88
<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

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#33	QF_Cells_18.7_H	H5T_STD_U16LE	Number_of_Rows	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>	Quality Flag of cell for channel 18.7H	H5T_C_S1	84
	<i>standard_name</i>	quality flag	H5T_C_S1	13
	<i>comment</i>	16-bits array : #0:quality flag validity , #1:sun glint, #2:land/sea contamination, #3:surface type, #4:TB validity, #5:Level-0 Count Saturated, #6:Level-0 Count poor value, #7: geolocation estimation, #8:calibration failure, #9:partial calibration, #10:hot count error, #11:cold sky count error, #12:interpolation quality, #13: Blank, #14 to #15: Ice flag	H5T_C_S1	358
	<i>dimension label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
	<i>geolocation label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
	<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

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#34	QF_Cells_18.7_V	H5T_STD_U16LE	Number_of_Rows	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>	Quality Flag of cell for channel 18.7V	H5T_C_S1	84
	<i>standard_name</i>	quality flag	H5T_C_S1	13
	<i>comment</i>	16-bits array : #0:quality flag validity , #1:sun glint, #2:land/sea contamination, #3:surface type, #4:TB validity, #5:Level-0 Count Saturated, #6:Level-0 Count poor value, #7: geolocation estimation, #8:calibration failure, #9:partial calibration, #10:hot count error, #11:cold sky count error, #12:interpolation quality, #13: Blank, #14 to #15: Ice flag	H5T_C_S1	358

1.325	#35	<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82	
		<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88	
		<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	
		QF_Cells_23.8_V		H5T_STD_U16LE	Number_of_Rows	
		<i>Attributes</i>				
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Quality Flag of cell for channel 23.8V	H5T_C_S1	84
			<i>standard_name</i>	quality flag	H5T_C_S1	13
	<i>comment</i>	16-bits array : #0:quality flag validity , #1:sun glint, #2:land/sea contamination, #3:surface type, #4:TB validity, #5:Level-0 Count Saturated, #6:Level-0 Count poor value, #7: geolocation estimation, #8:calibration failure, #9:partial calibration, #10:hot count error, #11:cold sky count error, #12:interpolation quality, #13: Blank, #14 to #15: Ice flag	H5T_C_S1	358		
1.325	#36	<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82	
		<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88	
		<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	
		QF_Cells_36.5_H		H5T_STD_U16LE	Number_of_Rows	
		<i>Attributes</i>				
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Quality Flag of cell for channel 36.5H	H5T_C_S1	84
			<i>standard_name</i>	quality flag	H5T_C_S1	13
	<i>comment</i>	16-bits array : #0:quality flag validity , #1:sun glint, #2:land/sea contamination, #3:surface type, #4:TB validity, #5:Level-0 Count Saturated, #6:Level-0 Count poor value, #7: geolocation estimation, #8:calibration failure, #9:partial calibration, #10:hot count error, #11:cold sky count error, #12:interpolation quality, #13: Blank, #14 to #15: Ice flag	H5T_C_S1	358		
1.325	#37	<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82	
		<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88	
		<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	
		QF_Cells_36.5_V		H5T_STD_U16LE	Number_of_Rows	
		<i>Attributes</i>				
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Quality Flag of cell for channel 36.5V	H5T_C_S1	84
			<i>standard_name</i>	quality flag	H5T_C_S1	13

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<i>comment</i>	16-bits array : #0:quality flag validity , #1:sun glint, #2:land/sea contamination, #3:surface type, #4:TB validity, #5:Level-0 Count Saturated, #6:Level-0 Count poor value, #7: geolocation estimation, #8:calibration failure, #9:partial calibration, #10:hot count error, #11:cold sky count error, #12:interpolation quality, #13: Blank, #14 to #15: Ice flag	H5T_C_S1	358
<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
<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

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#38	QF_Cells_89.0_H	H5T_STD_U16LE	Number_of_Rows_	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>	Quality Flag of cell for channel 89.0H	H5T_C_S1	84
	<i>standard_name</i>	quality flag	H5T_C_S1	13
	<i>comment</i>	16-bits array : #0:quality flag validity , #1:sun glint, #2:land/sea contamination, #3:surface type, #4:TB validity, #5:Level-0 Count Saturated, #6:Level-0 Count poor value, #7: geolocation estimation, #8:calibration failure, #9:partial calibration, #10:hot count error, #11:cold sky count error, #12:interpolation quality, #13: Blank, #14 to #15: Ice flag	H5T_C_S1	358
	<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
	<i>geolocation_label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
	<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

#39	QF_Cells_89.0_V	H5T_STD_U16LE	Number_of_Rows_	
	<i>Attributes</i>			
	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>	Quality Flag of cell for channel 89.0V	H5T_C_S1	84
	<i>standard_name</i>	quality flag	H5T_C_S1	13
	<i>comment</i>	16-bits array : #0:quality flag validity , #1:sun glint, #2:land/sea contamination, #3:surface type, #4:TB validity, #5:Level-0 Count Saturated, #6:Level-0 Count poor value, #7: geolocation estimation, #8:calibration failure, #9:partial calibration, #10:hot count error, #11:cold sky count error, #12:interpolation quality, #13: Blank, #14 to #15: Ice flag	H5T_C_S1	358
	<i>dimension_label</i>	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82

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#40	<i>geolocation label</i>	Latitude_Cells_10km, Longitude_Cells_10km	H5T C S1	88	
	<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	
	QF_Cells_157.0_H	H5T_STD_U16LE	Number_of_Rows_!		
	<i>Attributes</i>				
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>		Quality Flag of cell for channel 157.0H	H5T C S1	84
	<i>standard_name</i>		quality flag	H5T C S1	13
	<i>comment</i>		16-bits array : #0:quality flag validity , #1:sun glint, #2:land/sea contamination, #3:surface type, #4:TB validity, #5:Level-0 Count Saturated, #6:Level-0 Count poor value, #7: geolocation estimation, #8:calibration failure, #9:partial calibration, #10:hot count error, #11:cold sky count error, #12:interpolation quality, #13: Blank, #14 to #15: Ice flag	H5T C S1	358
	<i>dimension label</i>		Number_of_Rows_5km, Number_of_Columns_5km	H5T C S1	82
	<i>geolocation label</i>		Latitude_Cells_5km, Longitude_Cells_5km	H5T C S1	88
	<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	
#41	QF_Cells_157.0_V	H5T_STD_U16LE	Number_of_Rows_!		
	<i>Attributes</i>				
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
	<i>long_name</i>		Quality Flag of cell for channel 157.0V	H5T C S1	84
	<i>standard_name</i>		quality flag	H5T C S1	13
	<i>comment</i>		16-bits array : #0:quality flag validity , #1:sun glint, #2:land/sea contamination, #3:surface type, #4:TB validity, #5:Level-0 Count Saturated, #6:Level-0 Count poor value, #7: geolocation estimation, #8:calibration failure, #9:partial calibration, #10:hot count error, #11:cold sky count error, #12:interpolation quality, #13: Blank, #14 to #15: Ice flag	H5T C S1	358
	<i>dimension label</i>		Number_of_Rows_5km, Number_of_Columns_5km	H5T C S1	82
	<i>geolocation label</i>		Latitude_Cells_5km, Longitude_Cells_5km	H5T C S1	88
	<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

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