SAPHIR L1A

Estimated Size	for typical [Number_of_Scans]
19.664 Mb	[3736]

Science data group associated attributes

ScienceData

	Attributes			
Index	Name	Value	Type	Size
#1	Product_Identification	MT1SAPSL1A__1.00_9_01_I_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	SAPHIR	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	YYYYMMMDD	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	6	H5T_C_S1	8
#21	Channel_CentralFrequency	183.31+/-0.2GHz 183.31+/-1.1GHz 183.31+/	H5T_C_S1	102
#22	Channel_Bandwith	200MHz 350MHz 500MHz 700MHz 1200MHz 2	H5T_C_S1	45
#23	SunGlint_Limits	[0,30]degree	H5T_C_S1	14
#24	Orbit_StartNumber	00001	H5T_C_S1	19
#25	Orbit_EndNumber	00001	H5T_C_S1	17
#26	Orbit_Cycle_Number	01	H5T_C_S1	3
#27	SLConf	100001	H5T_C_S1	7
#28	Nskip	0005	H5T_C_S1	5
#29	ProcessorVersion	1.00	H5T_C_S1	5
#30	Sample_Size_AcrossTrack	[+22.596,+22.092,+21.611,+21.151,+20.712	H5T_C_S1	1453
#31	Sample_Size_AlongTrack	[+14.503,+14.361,+14.223,+14.090,+13.960	H5T_C_S1	1450
#32	Sample_IncidenceAngles	[+50.402,+49.786,+49.172,+48.562,+47.955	H5T_C_S1	1420
#33	SAPHIR_QF_Scan_Definition	16-bits array (=0:good/=1:bad):, #15: scan/rd	H5T_C_S1	16x24
#34	SAPHIR_QF_Sample_Definition	16-bits array (=0:good/=1:bad):, #15:TB val	H5T_C_S1	16x24
#35	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#36	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#37	Flip_StartScanNumber	00000012	H5T_C_S1	9
#38	Flip_EndScanNumber	00000042	H5T_C_S1	9
#39	Maneuver_StartScanNumber	00000011	H5T_C_S1	9

#40	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#41	FirstScanNumber	00000000	H5T_C_S1	8
#42	Time_Sample_Interval	4.576	H5T_C_S1	4
#43	Number_of_Samples	182	H5T_C_S1	8
#44	Number_of_Scans	00003736	H5T_C_S1	22
#45	QF_Product_%Processed_Scans	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]	Index	Name	Type	Typical Value	
0.007	#1	SAPHIR_QF_scan	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Quality flag applicable to the scan line	H5T_C_S1	41
		comment	16-bits array (=0:good/=1:bad):, #15: scan/row quality flag validity, #14: pass type, #13: Scanning type, #12: Scan/Row error, #11: datation error, #10: PRT Error, #9-8: Blank, #7: CRC Status, #6: Blank, #5-3: Payload Mode, #2-0: Satellite Mode	H5T_C_S1	250
		dimension_label	Number_of_Scans	H5T_C_S1	16
		geolocation_label	Scan_FirstSampleAcqTime	H5T_C_S1	35
0.007	#2	Scan_Number	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Scan Number	H5T_C_S1	12
		valid_range	[0,65535]	H5T_C_S1	10
		min_max	[0,65535]	H5T_C_S1	10
		_FillValue	65535	H5T_C_S1	6
		comment	scan number from the first scan of the product	H5T_C_S1	47
		dimension_label	Number_of_Scans	H5T_C_S1	16
0.007	#3	Latitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	latitude of subsatellite point	H5T_C_S1	31
		standard_name	latitude	H5T_C_S1	9
		units	degrees	H5T_C_S1	8
		scale_factor	0.01	H5T_C_S1	5
		add_offset	-40.0	H5T_C_S1	6
		valid_range	[-40.0,40.0]	H5T_C_S1	13
		min_max	[0,8000]	H5T_C_S1	9
		_FillValue	65535	H5T_C_S1	6
		comment	accuracy 1km	H5T_C_S1	13
		dimension_label	Number_of_Scans	H5T_C_S1	16
0.007	#4	Longitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	longitude of subsatellite point	H5T_C_S1	32
		standard_name	longitude	H5T_C_S1	10
		units	degrees	H5T_C_S1	8

			scale_factor	0.01	H5T_C_S1	5
			add_offset	0.0	H5T_C_S1	4
			valid_range	[0.0,360.0]	H5T_C_S1	12
			min_max	[0,36000]	H5T_C_S1	10
			_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	H5T_C_S1	16
	0.007		Scan_HotLoadTemperature	H5T_STD_U16LE	Number_of_Scans	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Hot load temperature	H5T_C_S1	21
			units	Kelvin	H5T_C_S1	7
			scale_factor	0.01	H5T_C_S1	5
		#5	*add_offset*	0.0	H5T_C_S1	4
			valid_range	[0.0,400.0]	H5T_C_S1	12
			min_max	[0,40000]	H5T_C_S1	10
			_FillValue	65535	H5T_C_S1	6
			comment	Estimated average physical temperature of the hot load used for TB calculation	H5T_C_S1	79
			dimension_label	Number_of_Scans	H5T_C_S1	16
			geolocation_label	Scan_FirstSampleAcqTime	H5T_C_S1	54
	0.086		Scan_Gain	H5T_IEEE_F32LE	Number_of_Scans	
			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
		#6	*add_offset*	0.0	H5T_C_S1	4
			valid_range	[15.0,28.0]	H5T_C_S1	21
			min_max	[15.0,28.0]	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: S1, S2, S3, S4, S5, S6	H5T_C_S1	124
			dimension_label	Number_of_Scans, Number_of_Channels	H5T_C_S1	36
	0.086		Scan_Offset	H5T_IEEE_F32LE	Number_of_Scans	
			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
		#7	*add_offset*	0.0	H5T_C_S1	4
			valid_range	[1130.0,1620.0]	H5T_C_S1	23
			min_max	[1130.0,1620.0]	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: S1, S2, S3, S4, S5, S6	H5T_C_S1	113
			dimension_label	Number_of_Scans, Number_of_Channels	H5T_C_S1	36
	0.004	#8	Scan_FirstSampleAcqTime	H5T_C_S1	Number_of_Scans	
			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
1.297	**Latitude_Samples**	**H5T_STD_U16LE**	**Number_of_Scans›**	
	Attributes			
	Name	Value	Type	Size
	long_name	latitude of samples	H5T_C_S1	77
	standard_name	latitude	H5T_C_S1	9
	units	degrees	H5T_C_S1	8
	scale_factor	0.01	H5T_C_S1	5
#9	add_offset	-40.0	H5T_C_S1	6
	valid_range	[-40.0,40.0]	H5T_C_S1	13
	_FillValue	65535	H5T_C_S1	6
	comment	accuracy 1km	H5T_C_S1	13
	dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	59
	CLASS	IMAGE	H5T_C_S1	6
	IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
1.297	**Longitude_Samples**	**H5T_STD_U16LE**	**Number_of_Scans›**	
	Attributes			
	Name	Value	Type	Size
	long_name	longitude of 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
#10	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	H5T_C_S1	59
	CLASS	IMAGE	H5T_C_S1	6
	IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE	[0,36000]	H5T_STD_U16LE	4
1.297	**IncidenceAngle_Samples**	**H5T_STD_I16LE**	**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
#11	scale_factor	0.01	H5T_C_S1	5
	valid_range	[0.0,51.0]	H5T_C_S1	11
	_FillValue	32767	H5T_C_S1	6
	comment	angle between zenith and line of sight	H5T_C_S1	39
	dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	37
	geolocation_label	Latitude, Longitude	H5T_C_S1	20
	CLASS	IMAGE	H5T_C_S1	6
	IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16

			IMAGE_MINMAXRANGE	[-4296,4296]	H5T_STD_I16LE	4
	1.297		**TB_Samples_S1**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Samples brightness temperatures at 183.31 +/- 0.2	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
		#12	*_FillValue*	65535	H5T_C_S1	6
			quality_flag	QF__Samples_S1	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	88
			dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
			geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297		**TB_Samples_S2**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Samples brightness temperatures at 183.31 +/- 1.1	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
		#13	*_FillValue*	65535	H5T_C_S1	6
			quality_flag	QF__Samples_S2	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	88
			dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
			geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297		**TB_Samples_S3**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Samples brightness temperatures at 183.31 +/- 2.8	H5T_C_S1	53
		#14	*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__Samples_S3	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	88
			dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
			geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297		**TB_Samples_S4**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Samples brightness temperatures at 183.31 +/- 4.2	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
		#15	*_FillValue*	65535	H5T_C_S1	6
			quality_flag	QF__Samples_S4	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	88
			dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
			geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297		**TB_Samples_S5**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Samples brightness temperatures at 183.31 +/- 6.8	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
		#16	*_FillValue*	65535	H5T_C_S1	6
			quality_flag	QF__Samples_S5	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	88
			dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
			geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297		**TB_Samples_S6**	**H5T_STD_U16LE**	**Number_of_Scans›**	
		#17	*Attributes*			
			Name	*Value*	*Type*	*Size*

			long_name	Samples brightness temperatures at 183.31 +/- 11.0	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__Samples_S6	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	88
			dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
			geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297		**QF_Samples_S1**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Quality Flag of sample for channel 183.31 +/- 0.2	H5T_C_S1	71
			standard_name	quality flag	H5T_C_S1	13
		#18	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #1-0: Ice flag	H5T_C_S1	1
			dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
			geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297		**QF_Samples_S2**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Quality Flag of sample for channel 183.31 +/- 1.1	H5T_C_S1	71
			standard_name	quality flag	H5T_C_S1	13
		#19	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #1-0: Ice flag	H5T_C_S1	1
			dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
			geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297			QF_Samples_S3	H5T_STD_U16LE	Number_of_Scans×	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of sample for channel 183.31 +/- 2.8	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13
			#20	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #1-0: Ice flag	H5T_C_S1	1
				dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
				geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297			QF_Samples_S4	H5T_STD_U16LE	Number_of_Scans×	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of sample for channel 183.31 +/- 4.2	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13
			#21	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #1-0: Ice flag	H5T_C_S1	1
				dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
				geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297			QF_Samples_S5	H5T_STD_U16LE	Number_of_Scans×	
				Attributes			
				Name	*Value*	*Type*	*Size*
			#22	*long_name*	Quality Flag of sample for channel 183.31 +/- 6.8	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13

				comment	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #1-0: Ice flag	H5T_C_S1	1
				dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
				geolocation_label	Latitude_Samples, Longitude_Samples	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
	1.297			**QF_Samples_S6**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of sample for channel 183.31 +/- 11.0	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13
			#23	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #1-0: Ice flag	H5T_C_S1	1
				dimension_label	Number_of_Scans, Number_of_Samples	H5T_C_S1	56
				geolocation_label	Latitude_Samples, Longitude_Samples	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

SAPHIR L1A2

Estimated Size	for typical [Number_of_Scans]
14.106 Mb	[3736]

Science data group associated attributes

ScienceData

	Attributes			
Index	Name	Value	Type	Size
#1	Product_Identification	MT1SAPSL1A2__1.00_9_01_I_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	SAPHIR	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	YYYYMMMDD	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	6	H5T_C_S1	8
#21	Channel_CentralFrequency	183.31+/-0.2GHz 183.31+/-1.1GHz 183.31+/	H5T_C_S1	102
#22	Channel_Bandwith	200MHz 350MHz 500MHz 700MHz 1200MHz 2	H5T_C_S1	45
#23	SunGlint_Limits	[0,30]degree	H5T_C_S1	14
#24	Orbit_StartNumber	00001	H5T_C_S1	19
#25	Orbit_EndNumber	00001	H5T_C_S1	17
#26	Orbit_Cycle_Number	01	H5T_C_S1	3
#27	SLConf	100001	H5T_C_S1	7
#28	Nskip	0005	H5T_C_S1	5
#29	ProcessorVersion	1.00	H5T_C_S1	5
#30	Pixel_Size_AcrossTrack	[+22.493,+21.800,+21.151,+20.542,+19.970	H5T_C_S1	1038
#31	Pixel_Size_AlongTrack	[+14.474,+14.278,+14.090,+13.909,+13.737	H5T_C_S1	1036
#32	Pixel_IncidenceAngles	[+50.278,+49.417,+48.562,+47.713,+46.869	H5T_C_S1	1016
#33	SAPHIR_QF_Scan_Definition	16-bits array (=0:good/=1:bad):, #15: scan/rd	H5T_C_S1	16x24
#34	SAPHIR_QF_Pixel_Definition	16-bits array (=0:good/=1:bad):, #15:TB val	H5T_C_S1	16x24
#35	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#36	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#37	Flip_StartScanNumber	00000012	H5T_C_S1	9
#38	Flip_EndScanNumber	00000042	H5T_C_S1	9
#39	Maneuver_StartScanNumber	00000011	H5T_C_S1	9

#40	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#41	FirstScanNumber	00000000	H5T_C_S1	8
#42	Time_Pixel_Interval	6.406	H5T_C_S1	4
#43	Number_of_Pixels	130	H5T_C_S1	8
#44	Number_of_Scans	00003736	H5T_C_S1	22
#45	QF_Product_%Processed_Scans	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]	Index	Name	Type	Typical Value	
0.007	#1	SAPHIR_QF_scan	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Quality flag applicable to the scan line	H5T_C_S1	41
		comment	16-bits array (=0:good/=1:bad):, #15: scan/row quality flag validity, #14: pass type, #13: Scanning type, #12: Scan/Row error, #11: datation error, #10: PRT Error, #9-8: Blank, #7: CRC Status, #6: Blank, #5-3: Payload Mode, #2-0: Satellite Mode	H5T_C_S1	250
		dimension_label	Number_of_Scans	H5T_C_S1	16
		geolocation_label	Scan_FirstPixelAcqTime	H5T_C_S1	35
0.007	#2	Scan_Number	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Scan Number	H5T_C_S1	12
		valid_range	[0,65535]	H5T_C_S1	10
		min_max	[0,65535]	H5T_C_S1	10
		_FillValue	65535	H5T_C_S1	6
		comment	scan number from the first scan of the product	H5T_C_S1	47
		dimension_label	Number_of_Scans	H5T_C_S1	16
0.007	#3	Latitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	latitude of subsatellite point	H5T_C_S1	31
		standard_name	latitude	H5T_C_S1	9
		units	degrees	H5T_C_S1	8
		scale_factor	0.01	H5T_C_S1	5
		add_offset	-40.0	H5T_C_S1	6
		valid_range	[-40.0,40.0]	H5T_C_S1	13
		min_max	[0,8000]	H5T_C_S1	9
		_FillValue	65535	H5T_C_S1	6
		comment	accuracy 1km	H5T_C_S1	13
		dimension_label	Number_of_Scans	H5T_C_S1	16
0.007	#4	Longitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	longitude of subsatellite point	H5T_C_S1	32
		standard_name	longitude	H5T_C_S1	10
		units	degrees	H5T_C_S1	8

			scale_factor	0.01	H5T_C_S1	5
			add_offset	0.0	H5T_C_S1	4
			valid_range	[0.0,360.0]	H5T_C_S1	12
			min_max	[0,36000]	H5T_C_S1	10
			_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	H5T_C_S1	16
	0.007		Scan_HotLoadTemperature	H5T_STD_U16LE	Number_of_Scans	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Hot load temperature	H5T_C_S1	21
			units	Kelvin	H5T_C_S1	7
			scale_factor	0.01	H5T_C_S1	5
		#5	*add_offset*	0.0	H5T_C_S1	4
			valid_range	[0.0,400.0]	H5T_C_S1	12
			min_max	[0,40000]	H5T_C_S1	10
			_FillValue	65535	H5T_C_S1	6
			comment	Estimated average physical temperature of the hot load used for TB calculation	H5T_C_S1	79
			dimension_label	Number_of_Scans	H5T_C_S1	16
			geolocation_label	Scan_FirstPixelAcqTime	H5T_C_S1	54
	0.086		Scan_Gain	H5T_IEEE_F32LE	Number_of_Scans›	
			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
		#6	*add_offset*	0.0	H5T_C_S1	4
			valid_range	[15.0,28.0]	H5T_C_S1	21
			min_max	[15.0,28.0]	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: S1, S2, S3, S4, S5, S6	H5T_C_S1	124
			dimension_label	Number_of_Scans, Number_of_Channels	H5T_C_S1	36
	0.086		Scan_Offset	H5T_IEEE_F32LE	Number_of_Scans›	
			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
		#7	*add_offset*	0.0	H5T_C_S1	4
			valid_range	[1130.0,1620.0]	H5T_C_S1	23
			min_max	[1130.0,1620.0]	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: S1, S2, S3, S4, S5, S6	H5T_C_S1	113
			dimension_label	Number_of_Scans, Number_of_Channels	H5T_C_S1	36
	0.004	#8	Scan_FirstPixelAcqTime	H5T_C_S1	Number_of_Scans	
			Attributes			

	Name	Value	Type	Size
	long_name	date of the first pixel	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
0.926	**Latitude_Pixels**	**H5T_STD_U16LE**	**Number_of_Scans›**	
#9	*Attributes*			
	Name	*Value*	*Type*	*Size*
	long_name	latitude of pixels	H5T_C_S1	77
	standard_name	latitude	H5T_C_S1	9
	units	degrees	H5T_C_S1	8
	scale_factor	0.01	H5T_C_S1	5
	add_offset	-40.0	H5T_C_S1	6
	valid_range	[-40.0,40.0]	H5T_C_S1	13
	_FillValue	65535	H5T_C_S1	6
	comment	accuracy 1km	H5T_C_S1	13
	dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	59
	CLASS	IMAGE	H5T_C_S1	6
	IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
0.926	**Longitude_Pixels**	**H5T_STD_U16LE**	**Number_of_Scans›**	
#10	*Attributes*			
	Name	*Value*	*Type*	*Size*
	long_name	longitude of pixels	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_Pixels	H5T_C_S1	59
	CLASS	IMAGE	H5T_C_S1	6
	IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE	[0,36000]	H5T_STD_U16LE	4
0.926	**IncidenceAngle_Pixels**	**H5T_STD_I16LE**	**Number_of_Scans›**	
#11	*Attributes*			
	Name	*Value*	*Type*	*Size*
	long_name	Incidence angle at the center of pixels	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
	valid_range	[0.0,51.0]	H5T_C_S1	11
	_FillValue	32767	H5T_C_S1	6
	comment	angle between zenith and line of sight	H5T_C_S1	39
	dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	37
	geolocation_label	Latitude, Longitude	H5T_C_S1	20
	CLASS	IMAGE	H5T_C_S1	6
	IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
	IMAGE_MINMAXRANGE	[-4296,4296]	H5T_STD_I16LE	4

	0.926		#12	TB_Pixels_S1	H5T_STD_U16LE	Number_of_Scans×
				Attributes		
				Name	*Value*	*Type*	*Size*
				long_name	Pixels brightness temperatures at 183.31 +/- 0.2	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_S1	H5T_C_S1	44
				comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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
	0.926		#13	TB_Pixels_S2	H5T_STD_U16LE	Number_of_Scans×
				Attributes		
				Name	*Value*	*Type*	*Size*
				long_name	Pixels brightness temperatures at 183.31 +/- 1.1	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_S2	H5T_C_S1	44
				comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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
	0.926		#14	TB_Pixels_S3	H5T_STD_U16LE	Number_of_Scans×
				Attributes		
				Name	*Value*	*Type*	*Size*
				long_name	Pixels brightness temperatures at 183.31 +/- 2.8	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_S3	H5T_C_S1	44

				comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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
	0.926			**TB_Pixels_S4**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Pixels brightness temperatures at 183.31 +/- 4.2	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
			#15	*_FillValue*	65535	H5T_C_S1	6
				quality_flag	QF__Pixels_S4	H5T_C_S1	44
				comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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
	0.926			**TB_Pixels_S5**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Pixels brightness temperatures at 183.31 +/- 6.8	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
			#16	*_FillValue*	65535	H5T_C_S1	6
				quality_flag	QF__Pixels_S5	H5T_C_S1	44
				comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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
	0.926			**TB_Pixels_S6**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			#17	*Attributes*			
				Name	*Value*	*Type*	*Size*

			long_name	Pixels brightness temperatures at 183.31 +/- 11.0	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_S6	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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
	0.926		**QF_Pixels_S1**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Quality Flag of pixel for channel 183.31 +/- 0.2	H5T_C_S1	71
			standard_name	quality flag	H5T_C_S1	13
		#18	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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
	0.926		**QF_Pixels_S2**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Quality Flag of pixel for channel 183.31 +/- 1.1	H5T_C_S1	71
			standard_name	quality flag	H5T_C_S1	13
		#19	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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
	0.926		QF_Pixels_S3	H5T_STD_U16LE	Number_of_Scans×	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Quality Flag of pixel for channel 183.31 +/- 2.8	H5T_C_S1	71
			standard_name	quality flag	H5T_C_S1	13
		#20	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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
	0.926		QF_Pixels_S4	H5T_STD_U16LE	Number_of_Scans×	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Quality Flag of pixel for channel 183.31 +/- 4.2	H5T_C_S1	71
			standard_name	quality flag	H5T_C_S1	13
		#21	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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
	0.926		QF_Pixels_S5	H5T_STD_U16LE	Number_of_Scans×	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Quality Flag of pixel for channel 183.31 +/- 6.8	H5T_C_S1	71
			standard_name	quality flag	H5T_C_S1	13
		#22	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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
	0.926			**QF_Pixels_S6**	**H5T_STD_U16LE**	**Number_of_Scans×**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of pixel for channel 183.31 +/- 11.0	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13
			#23	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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

SAPHIR L1A3

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

Science data group associated attributes

ScienceData

	Attributes			
Index	Name	Value	Type	Size
#1	Product_Identification	MT1SAPSL1A3__1.00_9_01_I_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	SAPHIR	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	YYYYMMMDD	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	6	H5T_C_S1	8
#21	Channel_CentralFrequency	183.31+/-0.2GHz 183.31+/-1.1GHz 183.31+/	H5T_C_S1	102
#22	Channel_Bandwith	200MHz 350MHz 500MHz 700MHz 1200MHz 2	H5T_C_S1	45
#23	SunGlint_Limits	[0,30]degree	H5T_C_S1	14
#24	Orbit_StartNumber	00001	H5T_C_S1	19
#25	Orbit_EndNumber	00001	H5T_C_S1	17
#26	Orbit_Cycle_Number	01	H5T_C_S1	3
#27	SLConf	100001	H5T_C_S1	7
#28	Nskip	0005	H5T_C_S1	5
#29	ProcessorVersion	1.00	H5T_C_S1	5
#30	SAPHIR_QF_Scan_Definition	16-bits array (=0:good/=1:bad):, #15: scan/rc	H5T_C_S1	16x24
#31	SAPHIR_QF_Pixel_Definition	16-bits array (=0:good/=1:bad):, #15:TB val	H5T_C_S1	16x24
#32	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#33	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#34	Flip_StartScanNumber	00000012	H5T_C_S1	9
#35	Flip_EndScanNumber	00000042	H5T_C_S1	9
#36	Maneuver_StartScanNumber	00000011	H5T_C_S1	9
#37	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#38	MADRAS_FirstScanNumber	00000000	H5T_C_S1	8
#39	Number_of_Pixels	214	H5T_C_S1	8

#40	Number_of_Scans	00002467	H5T_C_S1	22
#41	QF_Product_%Processed_Scans	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]	Index	Name	Type	Typical Value	
0.005	#1	SAPHIR_QF_scan	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Quality flag applicable to the scan line	H5T_C_S1	41
		comment	16-bits array (=0:good/=1:bad):, #15: scan/row quality flag validity, #14: pass type, #13: Scanning type, #12: Scan/Row error, #11: datation error, #10: PRT Error, #9-8: Blank, #7: CRC Status, #6: Blank, #5-3: Payload Mode, #2-0: Satellite Mode	H5T_C_S1	250
		dimension_label	Number_of_Scans	H5T_C_S1	16
		geolocation_label	Scan_FirstPixelAcqTime	H5T_C_S1	35
0.005	#2	MADRAS_Scan_Number	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Scan Number	H5T_C_S1	12
		add_offset	0	H5T_C_S1	2
		valid_range	[0,65535]	H5T_C_S1	10
		min_max	[0,65535]	H5T_C_S1	10
		_FillValue	65535	H5T_C_S1	6
		comment	scan number from the first scan of the product	H5T_C_S1	47
		dimension_label	Number_of_Scans	H5T_C_S1	16
0.005	#3	Latitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	latitude of subsatellite point	H5T_C_S1	31
		standard_name	latitude	H5T_C_S1	9
		units	degrees	H5T_C_S1	8
		scale_factor	0.01	H5T_C_S1	5
		add_offset	-40.0	H5T_C_S1	6
		valid_range	[-40.0,40.0]	H5T_C_S1	13
		min_max	[0,8000]	H5T_C_S1	9
		_FillValue	65535	H5T_C_S1	6
		comment	accuracy 1km	H5T_C_S1	13
		dimension_label	Number_of_Scans	H5T_C_S1	16
0.005	#4	Longitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	longitude of subsatellite point	H5T_C_S1	32
		standard_name	longitude	H5T_C_S1	10
		units	degrees	H5T_C_S1	8
		scale_factor	0.01	H5T_C_S1	5
		add_offset	0.0	H5T_C_S1	4
		valid_range	[0.0,360.0]	H5T_C_S1	12

			min_max	[0,36000]	H5T_C_S1	10
			_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	H5T_C_S1	16
	0.002		**Scan_FirstPixelAcqTime**	**H5T_C_S1**	**Number_of_Scans**	
			Attributes			
			Name	*Value*	*Type*	*Size*
		#5	*long_name*	date of the first pixel	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
	2.014		**Pixel_AcquisitionTime**	**H5T_IEEE_F32LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Time between first pixel and current pixel	H5T_C_S1	44
			standard_name	time	H5T_C_S1	5
		#6	*units*	seconds	H5T_C_S1	9
			_FillValue	3.4E38	H5T_C_S1	7
			comment	Average time at pixel centre from first pixel time	H5T_C_S1	52
			dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	37
			CLASS	IMAGE	H5T_C_S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
			IMAGE_MINMAXRANGE	TBD	H5T_IEEE_F32LE	8
	1.007		**Latitude_Pixels**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	latitude of pixels	H5T_C_S1	77
			standard_name	latitude	H5T_C_S1	9
			units	degrees	H5T_C_S1	8
			scale_factor	0.01	H5T_C_S1	5
		#7	*add_offset*	-40.0	H5T_C_S1	6
			valid_range	[-40.0,40.0]	H5T_C_S1	13
			_FillValue	65535	H5T_C_S1	6
			comment	accuracy 1km	H5T_C_S1	13
			dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	59
			CLASS	IMAGE	H5T_C_S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
			IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
	1.007		**Longitude_Pixels**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	longitude of pixels	H5T_C_S1	78
		#8	*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_Pixels	H5T_C_S1	59
			CLASS	IMAGE	H5T_C_S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
			IMAGE_MINMAXRANGE	[0,36000]	H5T_STD_U16LE	4
	1.007		**IncidenceAngle_Pixels**	**H5T_STD_I16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Incidence angle at the center of pixels	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
		#9	*valid_range*	[0.0,51.0]	H5T_C_S1	11
			_FillValue	32767	H5T_C_S1	6
			comment	angle between zenith and line of sight	H5T_C_S1	39
			dimension_label	Number_of_Scans, Number_of_Pixels	H5T_C_S1	37
			geolocation_label	Latitude, Longitude	H5T_C_S1	20
			CLASS	IMAGE	H5T_C_S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
			IMAGE_MINMAXRANGE	[-4296,4296]	H5T_STD_I16LE	4
	1.007		**TB_Pixels_S1**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Pixels brightness temperatures at 183.31 +/- 0.2	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
		#10	*_FillValue*	65535	H5T_C_S1	6
			quality_flag	QF__Pixels_S1	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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		**TB_Pixels_S2**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Pixels brightness temperatures at 183.31 +/- 1.1	H5T_C_S1	53
			standard_name	brightness_temperature	H5T_C_S1	23
		#11	*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_S2	H5T_C_S1	44

				comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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			**TB_Pixels_S3**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Pixels brightness temperatures at 183.31 +/- 2.8	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
			#12	*_FillValue*	65535	H5T_C_S1	6
				quality_flag	QF__Pixels_S3	H5T_C_S1	44
				comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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			**TB_Pixels_S4**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Pixels brightness temperatures at 183.31 +/- 4.2	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
			#13	*_FillValue*	65535	H5T_C_S1	6
				quality_flag	QF__Pixels_S4	H5T_C_S1	44
				comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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			**TB_Pixels_S5**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			#14	*Attributes*			
				Name	*Value*	*Type*	*Size*

			long_name	Pixels brightness temperatures at 183.31 +/- 6.8	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_S5	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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		**TB_Pixels_S6**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Pixels brightness temperatures at 183.31 +/- 11.0	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
		#15	*valid_range*	[0,400]	H5T_C_S1	8
			_FillValue	65535	H5T_C_S1	6
			quality_flag	QF__Pixels_S6	H5T_C_S1	44
			comment	TB estimated from raw instrumental measurements (see additionnal geometrical information in attributes of SAPHIR)	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		**QF_Pixels_S1**	**H5T_STD_U16LE**	**Number_of_Scans›**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Quality Flag of pixel for channel 183.31 +/- 0.2	H5T_C_S1	71
			standard_name	quality flag	H5T_C_S1	13
		#16	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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		**#17**	**QF_Pixels_S2**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of pixel for channel 183.31 +/- 1.1	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13
				comment	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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		**#18**	**QF_Pixels_S3**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of pixel for channel 183.31 +/- 2.8	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13
				comment	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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		**#19**	**QF_Pixels_S4**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of pixel for channel 183.31 +/- 4.2	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13

				comment	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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			**QF_Pixels_S5**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of pixel for channel 183.31 +/- 6.8	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13
			#20	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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			**QF_Pixels_S6**	**H5T_STD_U16LE**	**Number_of_Scans›**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of pixel for channel 183.31 +/- 11.0	H5T_C_S1	71
				standard_name	quality flag	H5T_C_S1	13
			#21	*comment*	16-bits array (=0:good/=1:bad):, #15: TB validity , #14:sun glint, #13: land/sea contamination, #12:surface type, #11:On/Off Channel, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7-6: calibration flag, #5:hot count error, #4: cold sky count error, #3: interpolation quality, #2: Blank, #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

SAPHIR L1B

Estimated Size	for typical [Number_of_Rows_10km]
27.843 Mb	[3837]

Science data group associated attributes

ScienceData

	Attributes			
Index	Name	Value	Type	Size
#1	Product_Identification	MT1SAPSL1B__1.00_9_01_I_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	SAPHIR	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	YYYYMMMDD	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	6	H5T_C_S1	8
#21	Channel_CentralFrequency	[183.1+/- 0.2 GHz, 183.1+/- 1.1 GHz, 183.1+/	H5T_C_S1	110
#22	Channel_Bandwith	[200 MHz,350 MHz,500 MHz,700 MHz,1200 MH	H5T_C_S1	52
#23	Sun glint limits	[30,30]degrees	H5T_C_S1	16
#24	Orbit_StartNumber	00001	H5T_C_S1	19
#25	Orbit_EndNumber	00001	H5T_C_S1	17
#26	Orbit_Cycle_Number	01	H5T_C_S1	3
#27	SLConf	100001	H5T_C_S1	7
#28	Nskip	0005	H5T_C_S1	5
#29	ProcessorVersion	1.00	H5T_C_S1	5
#30	SAPHIR_QF_Row_Definition	16-bits array (=0:good/=1:bad):, #15: scan/ro	H5T_C_S1	16x24
#31	SAPHIR_QF_Cell_Definition	16-bits array (=0:good/=1:bad):, #15:TB val	H5T_C_S1	16x24
#32	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#33	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#34	Flip_StartScanNumber	00000012	H5T_C_S1	9
#35	Flip_EndScanNumber	00000042	H5T_C_S1	9
#36	Maneuver_StartScanNumber	00000011	H5T_C_S1	9
#37	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#38	Number_of_Rows_10km	3837	H5T_C_S1	8
#39	Number_of_Columns_10km	181	H5T_C_S1	8

#40	Number_of_Processed_Rows	3836	H5T_C_S1	8
#41	QF_Product_%Processed_Rows	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]	Index	Name	Type	Typical Value	
0.007	#1	Row_SAPHIR_QF_10km	H5T_STD_U16LE	Number_of_Rows_	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Quality flag applicable to the scan line	H5T_C_S1	41
		comment	16-bits array (=0:good, =1:bad) : #0: scan/row quality flag validity, #1: pass type, #2: Scanning type, #3: Scan/Row error, #4: datation error,#5 PRT error #5-#7: Blank, #8: CRC Status, #9: Blank, #10-12: Payload Mode, #13-15: Satellite Mode	H5T_C_S1	29
		dimension_label	Number_of_Rows_10km	H5T_C_S1	20
		geolocation_label	Row_StartTime_10km	H5T_C_S1	19
0.015	#2	Row_Number_10km	H5T_STD_U32LE	Number_of_Rows_	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Row Number (10km grid)	H5T_C_S1	29
		comment	Row Number (10km grid)	H5T_C_S1	29
		dimension_label	Number_of_Rows_10km	H5T_C_S1	26
0.004	#3	Row_FirstCellAcqTime_10km	H5T_C_S1	Number_of_Rows_	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	date for the first cell of the row (10km grid)	H5T_C_S1	105
		standard_name	time	H5T_C_S1	5
		units	UTC Time in microseconds	H5T_C_S1	25
		_FillValue	yyyymmdd hhmmssuuuuuu	H5T_C_S1	22
		comment	format: yyyymmdd hhmmssuuuuuu	H5T_C_S1	32
		dimension_label	Number_of_Rows_10km	H5T_C_S1	37
1.325	#4	Cell_population_10km_S1	H5T_STD_U16LE	Number_of_Rows_	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Cell population for channel S1	H5T_C_S1	52
		_FillValue	65535	H5T_C_S1	6
		comment	number of samples per Cell	H5T_C_S1	40
		dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
		geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	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
1.325	#5	Cell_population_10km_S2	H5T_STD_U16LE	Number_of_Rows_	
		Attributes			
		Name	*Value*	*Type*	*Size*
		long_name	Cell population for channel S2	H5T_C_S1	52

			_FillValue	65535	H5T_C_S1	6
			comment	number of samples per Cell	H5T_C_S1	40
			dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
			geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	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
	1.325		Cell_population_10km_S3	H5T_STD_U16LE	Number_of_Rows_	
			Attributes			
			Name	Value	Type	Size
			long_name	Cell population for channel S3	H5T_C_S1	52
			_FillValue	65535	H5T_C_S1	6
			comment	number of samples per Cell	H5T_C_S1	40
		#6	dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
			geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	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
	1.325		Cell_population_10km_S4	H5T_STD_U16LE	Number_of_Rows_	
			Attributes			
			Name	Value	Type	Size
			long_name	Cell population for channel S4	H5T_C_S1	52
			_FillValue	65535	H5T_C_S1	6
			comment	number of samples per Cell	H5T_C_S1	40
		#7	dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
			geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	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
	1.325		Cell_population_10km_S5	H5T_STD_U16LE	Number_of_Rows_	
			Attributes			
			Name	Value	Type	Size
			long_name	Cell population for channel S5	H5T_C_S1	52
			_FillValue	65535	H5T_C_S1	6
			comment	number of samples per Cell	H5T_C_S1	40
		#8	dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
			geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	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
	1.325		Cell_population_10km_S6	H5T_STD_U16LE	Number_of_Rows_	
			Attributes			
			Name	Value	Type	Size
		#9	long_name	Cell population for channel S6	H5T_C_S1	52
			_FillValue	65535	H5T_C_S1	6
			comment	number of samples per Cell	H5T_C_S1	40

			dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
			geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	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
	1.325		**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
		#10	*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
	1.325		**Longitude_Cells_10km**	**H5T_STD_U16LE**	**Number_of_Rows_**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	longitude of cells (10km 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
		#11	*valid_range*	[0,360]	H5T_C_S1	8
			min_max	[0,36000]	H5T_C_S1	10
			_FillValue	65535	H5T_C_S1	6
			comment	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T_C_S1	59
			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	[0,36000]	H5T_STD_U16LE	4
	1.325		**IncidenceAngle_Cells_10km**	**H5T_STD_I16LE**	**Number_of_Rows_**	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Incidence angle at the center of the cell	H5T_C_S1	83
		#12	*standard_name*	incidence_angle	H5T_C_S1	16
			units	degrees	H5T_C_S1	8
			scale_factor	0.01	H5T_C_S1	5
			valid_range	[0.0,51.0]	H5T_C_S1	11
			_FillValue	32767	H5T_C_S1	6
			comment	angle between zenith and line of sight	H5T_C_S1	39

			dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	78
			geolocation_label	Latitude_10km, Longitude_10km	H5T_C_S1	64
			CLASS	IMAGE	H5T_C_S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
			IMAGE_MINMAXRANGE	[-4296,4296]	H5T_STD_I16LE	4
	1.325		**TB_Cells_S1**	**H5T_STD_U16LE**	Number_of_Rows_	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Pixels brightness temperatures at S1	H5T_C_S1	63
			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
			min_max	[0,40000]	H5T_C_S1	10
		#13	*_FillValue*	65535	H5T_C_S1	6
			quality_flag	QF_cells_S1	H5T_C_S1	52
			comment	TB interpolated on all-instruments common grid (10km grid) (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	149
			dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
			geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
			CLASS	IMAGE	H5T_C_S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
			IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
	1.325		**TB_Cells_S2**	**H5T_STD_U16LE**	Number_of_Rows_	
			Attributes			
			Name	*Value*	*Type*	*Size*
			long_name	Pixels brightness temperatures at S2	H5T_C_S1	63
			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
			min_max	[0,40000]	H5T_C_S1	10
		#14	*_FillValue*	65535	H5T_C_S1	6
			quality_flag	QF_cells_S2	H5T_C_S1	52
			comment	TB interpolated on all-instruments common grid (10km grid) (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	149
			dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
			geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
			CLASS	IMAGE	H5T_C_S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
			IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
	1.325		**TB_Cells_S3**	**H5T_STD_U16LE**	Number_of_Rows_	
		#15	*Attributes*			
			Name	*Value*	*Type*	*Size*

			long_name	Pixels brightness temperatures at S3	H5T_C_S1	63
			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
			min_max	[0,40000]	H5T_C_S1	10
			_FillValue	65535	H5T_C_S1	6
			quality_flag	QF_cells_S3	H5T_C_S1	52
			comment	TB interpolated on all-instruments common grid (10km grid) (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	149
			dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
			geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
			CLASS	IMAGE	H5T_C_S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
			IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
	1.325			TB_Cells_S4	H5T_STD_U16LE	Number_of_Rows_
				Attributes		
				Name	*Value*	*Type*	*Size*
			long_name	Pixels brightness temperatures at S4	H5T_C_S1	63
			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
			min_max	[0,40000]	H5T_C_S1	10
		#16	*_FillValue*	65535	H5T_C_S1	6
			quality_flag	QF_cells_S4	H5T_C_S1	52
			comment	TB interpolated on all-instruments common grid (10km grid) (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	149
			dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
			geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
			CLASS	IMAGE	H5T_C_S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
			IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
	1.325			TB_Cells_S5	H5T_STD_U16LE	Number_of_Rows_
				Attributes		
				Name	*Value*	*Type*	*Size*
			long_name	Pixels brightness temperatures at S5	H5T_C_S1	63
			standard_name	brightness_temperature	H5T_C_S1	23
			units	Kelvin	H5T_C_S1	7
		#17	*scale_factor*	0.01	H5T_C_S1	5
			add_offset	0.0	H5T_C_S1	4
			valid_range	[0,400]	H5T_C_S1	8
			min_max	[0,40000]	H5T_C_S1	10
			_FillValue	65535	H5T_C_S1	6
			quality_flag	QF_cells_S5	H5T_C_S1	52

				comment	TB interpolated on all-instruments common grid (10km grid) (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	149
				dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
				geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
				CLASS	IMAGE	H5T_C_S1	6
				IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
				IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
	1.325			**TB_Cells_S6**	**H5T_STD_U16LE**	**Number_of_Rows_**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Pixels brightness temperatures at S6	H5T_C_S1	63
				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
				min_max	[0,40000]	H5T_C_S1	10
				FillValue	65535	H5T_C_S1	6
			#18	*quality_flag*	QF_cells_S6	H5T_C_S1	52
				comment	TB interpolated on all-instruments common grid (10km grid) (see additionnal geometrical information in attributes of SAPHIR)	H5T_C_S1	149
				dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
				geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
				CLASS	IMAGE	H5T_C_S1	6
				IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
				IMAGE_MINMAXRANGE	[0,40000]	H5T_STD_U16LE	4
	1.325			**QF_Cells_S1**	**H5T_STD_U16LE**	**Number_of_Rows_**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of cell for channel S1	H5T_C_S1	84
				standard_name	quality flag	H5T_C_S1	13
			#19	*comment*	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
				dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
				geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
				CLASS	IMAGE	H5T_C_S1	6
				IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
				IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4

	1.325		#20	QF_Cells_S2	H5T_STD_U16LE	Number_of_Rows_	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of cell for channel S2	H5T_C_S1	84
				standard_name	quality flag	H5T_C_S1	13
				comment	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
				dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
				geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
				CLASS	IMAGE	H5T_C_S1	6
				IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
				IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
	1.325		#21	QF_Cells_S3	H5T_STD_U16LE	Number_of_Rows_	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of cell for channel S3	H5T_C_S1	84
				standard_name	quality flag	H5T_C_S1	13
				comment	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
				dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
				geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
				CLASS	IMAGE	H5T_C_S1	6
				IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
				IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
	1.325		#22	QF_Cells_S4	H5T_STD_U16LE	Number_of_Rows_	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of cell for channel S4	H5T_C_S1	84
				standard_name	quality flag	H5T_C_S1	13

				comment	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
				dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
				geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
				CLASS	IMAGE	H5T_C_S1	6
				IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
				IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
	1.325			**QF_Cells_S5**	**H5T_STD_U16LE**	**Number_of_Rows_**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of cell for channel S5	H5T_C_S1	84
				standard_name	quality flag	H5T_C_S1	13
			#23	*comment*	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
				dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82
				geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
				CLASS	IMAGE	H5T_C_S1	6
				IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
				IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4
	1.325			**QF_Cells_S6**	**H5T_STD_U16LE**	**Number_of_Rows_**	
				Attributes			
				Name	*Value*	*Type*	*Size*
				long_name	Quality Flag of cell for channel S6	H5T_C_S1	84
				standard_name	quality flag	H5T_C_S1	13
			#24	*comment*	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
				dimension_label	Number_of_Rows_10km, Number_of_Columns_10km	H5T_C_S1	82

				geolocation_label	Latitude_Cells_10km, Longitude_Cells_10km	H5T_C_S1	88
				CLASS	IMAGE	H5T_C_S1	6
				IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T_C_S1	16
				IMAGE_MINMAXRANGE	[0,8000]	H5T_STD_U16LE	4