

Solar-B Keywords

Mission **Wid** and SOT-specific Keywords

Keyword	Format	Unit/Option	Category	Instrument	Data Source	Sample	Description
1. General FITS keywords							
SIMPLE	Logical	T or F	FITS	ALL	Reformatter	T	Indicates whether the FITS file is standard or
BITPIX	Integer	8,12,16,32,-32,-64	FITS	ALL	Reformatter	12	Number of bits per pixel.
NAXIS	Integer		FITS	ALL	Telemetry	2	Number of data array dimensions.
NAXIS1	Integer		FITS	ALL	Telemetry	2048	Number of pixels (data points) in the first axis of the data array.
NAXIS2	Integer		FITS	ALL	Telemetry	128	Number of pixels (data points) in the second axis of the data array.
NAXIS3	Integer		FITS	SP	Telemetry	128	Number of pixels (data points) in the third axis of the data array.
NAXIS4	Integer		FITS	SP	Telemetry	128	Number of pixels (data points) in the fourth axis of the data array.
EXTEND	Logical	T or F	FITS	SOT	Reformatter	T	FITS extension indicator
COMMENT	String		FITS	ALL		Evershed flow study	General comment. Allowed throughout header.
2. Instrument & Observable Information							
TELESCOP	String		FITS	ALL	Reformatter	Solar-B	Name of the satellite.
INSTRUME	String	EIS_XRT, SOT/FG, SOT/SP,SOT/CT	FITS	ALL	Telemetry	SOT/FG	Name of the instrument used to acquire the data.
WAVE	String		SOT	FG	Telemetry	TF Fe I 6302	Description of observable ion and wavelength
WAVEID	Integer		SOT	FG	Telemetry	12	Numerical identifier of observable wavelength
MASK	Integer		SOT	FG	Telemetry	22	Position of mask wheel on FG CCD?
WBFW	Integer	Steps	SOT	FG	Telemetry	118	Position of BFI filterwheel
WEDGE	Integer	Steps	SOT	ALL	Telemetry	22	Position of CT wedge filter
NBFW	Integer	Steps	SOT	FG	Telemetry	38	Position of NFI filter wheel
TF1	Integer	Steps	SOT	FG	Telemetry	2	Position of TF motor 1
TF2	Integer	Steps	SOT	FG	Telemetry	40	Position of TF motor 2
TF3	Integer	Steps	SOT	FG	Telemetry	6	Position of TF motor 3
TF4	Integer	Steps	SOT	FG	Telemetry	6	Position of TF motor 4
TF5	Integer	Steps	SOT	FG	Telemetry	28	Position of TF motor 5
TF6	Integer	Steps	SOT	FG	Telemetry	41	Position of TF motor 6
TF7	Integer	Steps	SOT	FG	Telemetry	67	Position of TF motor 7
TF8	Integer	Steps	SOT	FG	Telemetry	21	Position of TF motor 8
SLIT	Integer	Steps	SOT	SP	Telemetry	2048	Slit Position
FOCUS	Integer	Steps	SOT	ALL	Telemetry	2048	Position of FPP focusing lens
WBEXP	Integer	milli-seconds	SOT	FG	Telemetry	53	WB Requested Exposure time
NBEXP	Integer	milli-seconds	SOT	FG	Telemetry	99	NB Requested Exposure time
WAVEOFF	Integer	milliAngstroms	SOT	FG	Telemetry	350	Offset from baseline wavelength of observable given in WAVE
ROISTART	Integer	Pixels	SOT	FG, SP	Telemetry	0	Region of Interest start on CCD
ROISTOP	Integer	Pixels	SOT	FG, SP	Telemetry	1025	Region of Interest stop on CCD
CAMGAIN	Integer	0-3	SOT	ALL	Telemetry	2	Camera gain
CAMDACA	Integer	0-15	SOT	ALL	Telemetry	6	Digital/Analog Converter A
CAMDACB	Integer	0-15	SOT	ALL	Telemetry	8	Digital/Analog Converter B
CAMPSUM	Integer	0-4	SOT	ALL	Telemetry	2	Camera Parallel Summing
CAMSSUM	Integer	0-4	SOT	ALL	Telemetry	2	Cameras Serial summing
CAMAMP	Integer	0-1	SOT	ALL	Telemetry	0	Camera Amplifier
T_SPCCD	Float	Degrees C	SOT	SP	Telemetry	-10.00	Temperature of the SP CCD at the camera head
T_FGCCD	Float	Degrees C	SOT	FG	Telemetry	-10.00	Temperature of the FG CCD at the camera head
T_CTCCD	Float	Degrees C	SOT	CT	Telemetry	-10.00	Temperature of the CT CCD at the camera head
T_SPCEB	Float	Degrees C	SOT	SP	Telemetry	20.00	Temperature of the SP Camera Electronics Box
T_FGCEB	Float	Degrees C	SOT	FG	Telemetry	20.00	Temperature of the FG Camera Electronics Box
T_CTCEB	Float	Degrees C	SOT	CT	Telemetry	20.00	Temperature of the CT Camera Electronics Box
CAMSCLK	Integer	0-1	SOT	ALL	Telemetry	0	Camera Serial Clock
HEADERR	Integer	??	SOT	??	Telemetry	0	??
PMU_NROT	Integer	Rotations	SOT	SP	Telemetry	3	# of PMU rotations per image
CTMESTAT	Integer	Bit Field	SOT	All	Telemetry	Bit field	Correlation tracker tilt mirror status
CTMODE	Integer	Bit Field					Correlation tracker mode
CTSERVO	Integer	0-1					CT servo on (loop closed) or off (loop open)
3. Time Information							
TIMESYS	String		FITS	ALL	Reformatter	UTC	Indicates the time system of the data.
DATE_OBS	String	UTC/YYYY-MM-DDThh:mm:ss.sss	FITS	ALL	Reformatter	2006-12-31T05:53:29.300	The date and time of the image capture for a single filtergram or spectral image.
OBT_TIME	Integer		SOLAR-B	ALL	Telemetry	1234	Start time of the exposure or the raster in TI counter.
DATE_END	String	UTC/YYYY-MM-DDThh:mm:ss.sss	FITS	ALL	Telemetry	2006-12-31T05:53:29.300	End time of the exposure and the raster.
OBT_END	Integer		SOLAR-B	ALL	Telemetry	12345	End time of the exposures or the raster in TI counter.
EXPTIME	Float	second	SOLAR-B	ALL	Telemetry	0.128	Exposure time requested by MDP for a single
MDP_CLK					MDP		
CTIME							
PMUDELAY	Integer		SOT				
T_FIRST	String	UTC/YYYY-MM-DDThh:mm:ss.sss	SOT		Analysis	2007-01-15T20:03:34.567	Time of first component image in a derived (Level-1 or Level-2) data product
T_LAST	String	UTC/YYYY-MM-DDThh:mm:ss.sss	SOT		Analysis	2007-01-15T20:05:28.395	Time of last component image in a derived (Level-1 or Level-2) data product
CADENCE	Float	seconds	SOT		Analysis	23.452	Interval between measurements in a set
4. Coordinate Information							
CRPIX1	Float	pixel	FITS		Reformatter	128.5	Coordinates (X) of the reference pixel in the
CRPIX2	Float	pixel	FITS		Reformatter	128.5	Coordinates (Y) of the reference pixel in the data. For SOT/SP this is the X-coordinate (replaces CRPIX1).

CRPIX3	Float	pixel	FITS		Reformatter	128.5	Coordinates (Y) of the reference pixel in SOT/SP data.
CRVAL1	Float	arcsec	FITS		Telemetry	200.36	Coordinates (X) of the reference pixel in heliocentric reference frame.
CRVAL2	Float	arcsec	FITS		Telemetry	200.36	Coordinates (Y) of the reference pixel in heliocentric reference frame. For SOT/SP this is the X-coordinate (replaces CRVAL1).
CRVAL3	Float	arcsec	FITS		Telemetry	200.36	Coordinates (Y) of the reference pixel in heliocentric reference frame for SOT/SP data.
CDEL1	Float	arcsec	FITS		Reformatter	0.16	Pixel size in the X-direction.
CDEL2	Float	arcsec	FITS		Reformatter	0.054	Pixel size in the Y-direction. For the SOT/SP this is the pixel size in the X-direction (replaces CDEL1).
CDEL3	Float	arcsec	FITS		Reformatter	0.16	Pixel size in the Y-direction for the SOT/SP.
CUNIT1	String		FITS		Reformatter	arcsec	The unit of CRVAL1
CUNIT2	String		FITS		Reformatter	arcsec	The unit of CRVAL2
CUNIT3	String		FITS		Reformatter	arcsec	The unit of CRVAL3
CTYPE1	String		FITS		Reformatter	Solar-X	Label of the X-axis. In SOT/SP data this is the label of the X-axis (replaces CTYPE1).
CTYPE2	String		FITS		Reformatter	Solar-Y	Label of the Y-axis. In SOT/SP data this is the label of the Y-axis (replaces CTYPE1).
CYTPE3	String		FITS		Reformatter	Solar-Y	Label of the Y-axis for SOT/SP data.
SAT_ROT	Float	degree	SOLAR-B		Telemetry	0.12	Difference between Solar North and the Y-axis of the satellite.
INST_ROT	Float	degree	SOLAR-B		Reformatter	0.01	Difference between the Y-axis of the satellite and the images.
CROTA1	Float	degree	FITS		Analysis	0.13	SAT_ROT + INST_ROT. Difference between Solar North and Y-axis of images.
CROTA2	Float	degree	FITS		Analysis	0.21	Difference between Solar North and the Y-axis of the satellite for SOT/SP data.
XCEN	Float	arcsec	SSW		Analysis	250.2	The heliocentric coordinate (X) of the image.
YCEN	Float	arcsec	SSW		Analysis	-1098.45	The heliocentric coordinate (Y) of the image.
FOVX	Float	arcsec	SOLAR-B		Analysis	220	The width of the field-of-view in the X-
FOVY	Float	arcsec	SOLAR-B		Analysis	110	The width of the field-of-view in the Y-
TR_MODE	String	TR1, TR2, TR3, TR4, FIX	SOLAR-B		Telemetry	TR1	AOCS tracking mode (TR1--TR4) or Fixed (FIX). The number after TR indicates the number of the tracking curve.
XSCALE	Float	pixels	SOT	FG	Telemetry	2	CCD pixels per bin in X-coordinate. Indicates size of image pixels in units of CCD pixels to take into account summing or in readout or ...
YSCALE	Float	pixels	SOT	FG	Telemetry	4	Same as above for Y-coordinate.
FGXOFF	Integer	pixels	SOT	FG			FG offset for ROI definition.
FGYOFF	Integer	pixels	SOT	FG			FG offset for ROI definition.
FGCCDIX0	Integer	pixels	SOT	FG			Index of the 1st pixel in the CCD X-direction.
FGCCDIX1	Integer	pixels	SOT	FG			Index of the last pixel in the CCD X-direction.
FGCCDIY0	Integer	pixels	SOT	FG			Index of the 1st pixel in the CCD Y-direction.
FGCCDIY1	Integer	pixels	SOT	FG			Index of the last pixel in the CCD Y-direction.
SPWOFF	Integer	pixels	SOT	SP	Telemetry	64	SP wavelength offset for Doppler correction.
						128	
						0	
SPCCDIX1	Integer	pixels	SOT	SP	Telemetry	1023	Index of the last pixel in the SLIT direction.
SPCCDIY0	Integer	pixels	SOT	SP	Telemetry	112	Index of the first pixel in the wavelength
SPCCDIY1	Integer	pixels	SOT	SP	Telemetry	223	Index of the last pixel in the wavelength
						80	
SLITINDX	Integer		SOT	SP	Telemetry	26	Index number of slit position in map. Range from 0 to NSLITPOS - 1.
SPMAPINX	Integer		SOT	SP	Telemetry	3	Repeat index for SP maps.
SP_EXTID	Integer		SOT	SP	Telemetry		SP Extract ID, determines ROI in spatial
SCN_STEP	steps		SOT	SP	Telemetry	2	Scan Step, number of slit scan mechanism steps between positions at which data is collected.
SCN_SUM	steps		SOT	SP	Telemetry	1	Scan Summing, number of slit positions to sum before sending data to MDP.
SCN_RPT	Integer		SOT	SP	Telemetry	0 or 1	Repeat flag. Repeat map ad infinitum if set.
SLIT_POS	Integer	steps	SOT	SP	Telemetry	-25	Position of slit with respect to slit scan mechanism center, software best estimate.
SLITENC	Integer	steps	SOT	SP	Telemetry	1024	Slit position encoder reading, center is nominally 2048.
5. Observation Planning Information							
OBSTITLE	String		SOLAR-B		Chief Observer	Temperature of pre-flare site	The title of the observation.
TARGET	String		SOLAR-B		Chief Observer	Active Region	Description of the target region.
SCI_OBJ	String		SOLAR-B		Chief Observer	emerging AR measurements of	A few sentences on the scientific objective of the observation.
OBS_DEC	String		SOLAR-B		Chief Observer	H-alpha filtergrams and ...	A few sentences describing the properties of the observation.
JOIN_SB	String	ESX, ES, SX, EX, E, S, X	SOLAR-B		Chief Observer	ESX	Indicates the Solar-B instruments involved in the observation.
OBS_NUM	Integer		SOLAR-B		Science Coordinator	100	Formerly OBS_ID?
JOP_ID	Integer		SOLAR-B		Science Coordinator	123	Joint observations between Solar-B and other instruments will be sequentially numbered.
NOAA_NUM	Integer		SOLAR-B		Science Coordinator	11345	The NOAA Active Region number for AR observations.
OBSERVER	String	LAST First, Middle	SOLAR-B		Chief Observer	MURPHY Edward, A.	Name of the Chief Observer.
PLANNER	String	LAST First, Middle	SOLAR-B		Chief Planner	SHIMOJO Masumi	Name of the Chief Planner.
TOHBANS	String	LAST First, M. & LAST First M.	SOLAR-B		RT Tohbans	NANASHINO Gonbei, HENOENO Moheji	Names of the Real-Time Tohbans. Chief Observer input to the planning tool.
MACROID	Hex						
6. Data Information							
DATATYPE	String	SCI, ENG	SOLAR-B		Chief Observer	ENG	Indicates whether data is science or engineering test related.
COMPMOD	String	NOCOM, BITCOM8, BITCOM12, DHCP8, DHCP12, JPEG8, JPEG12	SOLAR-B		Telemetry	JPEG12	Indicates the compression mode.
BITC_VERN	Integer		SOLAR-B		Telemetry	1	The serial number of the bit compression table for image n.
DCHF_VERN	Integer		SOLAR-B		Telemetry	1	The serial number of the JPEG Huffman-DC
ACHF_VERN	Integer		SOLAR-B		Telemetry	1	The serial number of the JPEG Huffman-AC

QTAB_VERN SAA	Integer String	IN/OUT	SOLAR-B SOLAR-B		Telemetry ISACS-PLN	1 OUT	The serial number of the Q table for JPEG comp. Indicates whether the satellite is in the South Atlantic Anomaly at the time of observation.
HLZ	String	IN/OUT	SOLAR-B		ISACS-PLN	IN	Indicates whether the satellite is in the High Latitude Zone of auroral precipitation at the time of observation.
FLFLAG	String	FLR/NON	SOLAR-B		Telemetry	FLR	Flare flag; indicates observations made during FLARE mode.
PCK_SNO PCK_SN1 NUM_PCKS FPP_KEY HEX PRODUCT OBS_TYPE	String String		SOT	ALL	Reformatter	FG Intensity FGSIQUV	A single string code identifying the type of observation.
OBS_ID	Integer		SOT	FG, SP	Reformatter	23	Numerical identifier that correlates to OBS_TYPE. There is many-to-one correlation to OBS_TYPE.
GEN_ID	Integer		SOT	FG, SP	Reformatter	1	Numerical identifier with one-to-one correspondence to OBS_TYPE.
7. Reformatter Information							
DATE	String	UTC/YYYY-MM-DDThh:mm:ss.sss	FITS		Reformatter	2005-12-02T13:10:11.100	Date that a particular file was reformatted or created. Recommend change to FILEDATE
ORIGIN	String	JAXA/ISAS, NAOJ, MSSL, LMSAL, GSFC, ...	FITS		Reformatter	JAXA/ISAS	Indicates where the reformatted file was created.
DATA_LEV	Integer	0,1,2	FITS		Reformatter, SOT_PREP	0	The level of the data
DATE_RF0	String	UTC/YYYY-MM-DDThh:mm:ss.sss	SOLAR-B		Reformatter	2005-12-02T13:10:11.100	Indicates when the Level-0 reformatting was done.
ORIG_RF0	String	JAXA/ISAS, NAOJ, MSSL, LMSAL, GSFC, ...	SOLAR-B		Reformatter	LMSAL	Indicates where the Level-0 reformatting was done. Same as ORIGIN keyword.
VER_RF0	String		SOLAR-B		Reformatter	OT_Lev0_Reformatter Ver. 1.0	Indicates the version of the reformatting program used to create Level-0 data.
DATE_RF1	String	UTC/YYYY-MM-DDThh:mm:ss.sss	SOLAR-B		SOT_PREP	2005-12-02T13:10:11.100	Indicates when the Level-1 reformatting was done.
ORIG_RF1	String	JAXA/ISAS, NAOJ, MSSL, LMSAL, GSFC, ...	SOLAR-B		SOT_PREP	MSSL	Indicates where the Level-1 reformatting was done.
VER_RF1	String		SOLAR-B		SOT_PREP	XRT_Lev1_Reformatter Ver 3.2	Indicates the version of the calibration program was used to create Level-1 data.
FILEORIG	String		SOT		Reformatter		Indicates which sci files were used at creation

Solar-B Keywords (alphabetical order)

ACHF_VERn	Integer		SOLAR-B		Telemetry	1	The serial number of the JPEG Huffman-AC table.
BITC_VERn	Integer		SOLAR-B		Telemetry	1	The serial number of the bit compression table for image n.
BITPIX	Integer	8,12,16,32,-32,-64	FITS	ALL	Reformatter	12	Number of bits per pixel.
CADENCE	Float	seconds	SOT		Analysis	23.452	Interval between measurements in a set
CAMAMP	Integer	0-1	SOT	ALL	Telemetry	0	Camera Amplifier
CAMDACA	Integer	0-15	SOT	ALL	Telemetry	6	Digital/Analog Converter A
CAMDACB	Integer	0-15	SOT	ALL	Telemetry	8	Digital/Analog Converter B
CAMGAIN	Integer	0-3	SOT	ALL	Telemetry	2	Camera gain
CAMPSUM	Integer	0-4	SOT	ALL	Telemetry	2	Camera Parallel Summing
CAMSCLK	Integer	0-1	SOT	ALL	Telemetry	0	Camera Serial Clock
CAMSSUM	Integer	0-4	SOT	ALL	Telemetry	2	Cameras Serial summing
CDEL1	Float	arcsec	FITS		Reformatter	0.16	Pixel size in the X-direction.
CDEL2	Float	arcsec	FITS		Reformatter	0.054	Pixel size in the Y-direction. For the SOT/SP this is the
CDEL3	Float	arcsec	FITS		Reformatter	0.16	Pixel size in the Y-direction for the SOT/SP.
COMMENT	String		FITS	ALL		Evershed flow study	General comment. Allowed throughout header.
COMPMOD	String	BITCOM12, DHCP8,	SOLAR-B		Telemetry	JPEG12	Indicates the compression mode.
CROTA1	Float	degree	FITS		Analysis	0.13	SAT_ROT + INST_ROT. Difference between Solar North
CROTA2	Float	degree	FITS		Analysis	0.21	Difference between Solar North and the Y-axis of the
CRPIX1	Float	pixel	FITS		Reformatter	128.5	Coordinates (X) of the reference pixel in the data.
CRPIX2	Float	pixel	FITS		Reformatter	128.5	Coordinates (Y) of the reference pixel in the data. For
CRPIX3	Float	pixel	FITS		Reformatter	128.5	Coordinates (Y) of the reference pixel in SOT/SP data.
CRVAL1	Float	arcsec	FITS		Telemetry	200.36	Coordinates (X) of the reference pixel in heliocentric
CRVAL2	Float	arcsec	FITS		Telemetry	200.36	Coordinates (Y) of the reference pixel in heliocentric
CRVAL3	Float	arcsec	FITS		Telemetry	200.36	Coordinates (Y) of the reference pixel in heliocentric
CTIME							
CTMESTAT	Integer	Bit Field	SOT	All	Telemetry	Bit field	Correlation tracker tilt mirror status
CTMODE	Integer	Bit Field					Correlation tracker mode
CTSERVO	Integer	0-1					CT servo on (loop closed) or off (loop open)
CTYPE1	String		FITS		Reformatter	Solar-X	Label of the X-axis. In SOT/SP data this is CTYPE2.
CTYPE2	String		FITS		Reformatter	Solar-Y	Label of the Y-axis. In SOT/SP data this is the label of
CUNIT1	String		FITS		Reformatter	arcsec	The unit of CRVAL1
CUNIT2	String		FITS		Reformatter	arcsec	The unit of CRVAL2
CUNIT3	String		FITS		Reformatter	arcsec	The unit of CRVAL3
CYTYPE3	String		FITS		Reformatter	Solar-Y	Label of the Y-axis for SOT/SP data.
DATA_LEV	Integer	0,1,2	FITS		Reformatter	0	The level of the data
DATATYPE	String	SCI, ENG	SOLAR-B		Chief Observer	ENG	Indicates whether data is science or engineering test
DATE	String	DDThh:mm:ss.sss	FITS		Reformatter	2005-12-02T13:10:11.100	Date that a particular file was reformatted or created.
DATE_END	String	DDThh:mm:ss.sss	FITS	ALL	Telemetry	2006-12-31T05:53:29.300	End time of the exposure and the raster. SOT/SP, EIS,
DATE_OBS	String	DDThh:mm:ss.sss	FITS	ALL	Reformatter	2006-12-31T05:53:29.300	The date and time of the image capture for a single
DATE_RF0	String	DDThh:mm:ss.sss	SOLAR-B		Reformatter	2005-12-02T13:10:11.100	Indicates when the Level-0 reformatting was done.
DATE_RF1	String	DDThh:mm:ss.sss	SOLAR-B		Reformatter	2005-12-02T13:10:11.100	Indicates when the Level-1 reformatting was done.
DATE-OBS							
DCHF_VERn	Integer		SOLAR-B		Telemetry	1	The serial number of the JPEG Huffman-DC table.
EXPTIME	Float	second	SOLAR-B	ALL	Telemetry	0.128	Exposure time requested by MDP for a single image.
EXTEND	Logical	T or F	FITS	SOT	Reformatter	T	FITS extension indicator
FGCCDIX0	Integer	pixels	SOT	FG			
FGCCDIX1	Integer	pixels	SOT	FG			
FGCCDIY0	Integer	pixels	SOT	FG			
FGCCDIY1	Integer	pixels	SOT	FG			
FGXOFF	Integer	pixels	SOT	FG			
FGYOFF	Integer	pixels	SOT	FG			
FILEORIG	String						Indicates which files were used at creation
FLFLAG	String	FLR/NON	SOLAR-B		Telemetry	FLR	Flare flag; indicates observations made during FLARE
FOCUS	Integer	Steps	SOT	ALL	Telemetry	2048	Position of FFP focusing lens
FOVX	Float	arcsec	SOLAR-B		Analysis	220	The width of the field-of-view in the X-coordinate.
FOVY	Float	arcsec	SOLAR-B		Analysis	110	The width of the field-of-view in the Y-coordinate.
FPP_KEY							
GEN_ID	Integer		SOT	FG, SP	Reformatter	1	Numerical identifier with one-to-one correspondence to
HEADERR	Integer	??	SOT	??	Telemetry	0	??
HEX							

NBFW	Integer	Steps	SOT	FG	Telemetry	38	Position of NFI filter wheel
NOAA_NUM	Integer		SOLAR-B		Coordinator	11345	The NOAA Active Region number for AR observations.
NSLITPOS	Integer		SOT	SP	Telemetry	80	Number of slit positions in an SP map.
NUM_PCKS	String		SOLAR-B		Chief Observer	H-alpha filtergrams and ...	A few sentences describing the properties of the
OBS_DEC	Integer		SOT	FG, SP	Reformatter	23	Numerical identifier that correlates to OBS_TYPE. There
OBS_ID	Integer		SOLAR-B		Coordinator	100	is many-to-one correlation to OBS_TYPE.
OBS_NUM	String		SOT	ALL	Reformatter	FGSIQUV	Formerly OBS_ID?
OBS_TYPE	String	LAST First, Middle	SOLAR-B		Chief Observer	MURPHY Edward, A.	A single string code identifying the type of observation.
OBSERVER	String		SOLAR-B		Chief Observer	Temperature of pre-flare site	Name of the Chief Observer.
OBSTITLE	String		SOLAR-B		Chief Observer		The title of the observation.
OBT_END	Integer		SOLAR-B	ALL	Telemetry	12345	The end time of the exposures or the raster in TI counter.
OBT_TIME	Integer		SOLAR-B	ALL	Telemetry	1234	End time of the exposures or the raster in TI counter.
ORIG_RF0	String	LMSAL, GSFC, ...	SOLAR-B		Reformatter	LMSAL	Start time of the exposure or the raster in TI counter.
ORIG_RF1	String	LMSAL, GSFC, ...	SOLAR-B		Reformatter	MSSL	Indicates where the Level-0 reformatting was done.
ORIGIN	String	LMSAL, GSFC, ...	FITS		Reformatter	JAXA/ISAS	Indicates where the Level-1 reformatting was done.
							Indicates where the reformatted file was created.
PCK_SN0							
PCK_SN1	String	LAST First, Middle	SOLAR-B		Chief Planner	SHIMOJO Masumi	Name of the Chief Planner.
PLANNER	Integer	Rotations	SOT	SP	Telemetry	3	# of PMU rotations per image
PMU_NROT	Integer		SOT		MDP		
PMUDELAY	Integer		SOT				
PRODUCT	String					FG Intensity	
QTAB_VERn	Integer		SOLAR-B		Telemetry	1	The serial number of the Q table for JPEG comp.
ROISTART	Integer	Pixels	SOT	FG, SP	Telemetry	0	Region of Interest start on CCD
ROISTOP	Integer	Pixels	SOT	FG, SP	Telemetry	1025	Region of Interest start on CCD
SAA	String	IN/OUT	SOLAR-B		ISACS-PLN	OUT	Indicates whether the satellite is in the South Atlantic
SAT_ROT	Float	degree	SOLAR-B		Telemetry	0.12	Difference between Solar North and the Y-axis of the
SCI_OBJ	String		SOLAR-B		Chief Observer	Emerging AR measurements of...	A few sentences on the scientific objective of the
SCN_RPT	Integer		SOT	SP	Telemetry	0 or 1	Repeat flag. Repeat map ad infinitum if set.
SCN_STEP	Integer	steps	SOT	SP	Telemetry	2	Scan Step, number of slit scan mechanism steps
SCN_SUM	Integer	steps	SOT	SP	Telemetry	1	Scan Summing, number of slit positions to sum before
SIMPLE	Logical	T or F	FITS	ALL	Reformatter	T	Indicates whether the FITS file is standard or not.
SLIT	Integer	Steps	SOT	SP	Telemetry	2048	Slit Position
SLIT_POS	Integer	steps	SOT	SP	Telemetry	-25	Position of slit with respect to slit scan mechanism
SLITENC	Integer	steps	SOT	SP	Telemetry	1024	center, software best estimate.
SLITINDX	Integer		SOT	SP	Telemetry	26	Slit position encoder reading, center is nominally 2048.
SP_EXTID	Integer		SOT	SP	Telemetry		Index number of slit position in map. Range from 0 to
SPCCDIX0	Integer	pixels	SOT	SP	Telemetry	64	SP Extract ID, determines ROI in spatial direction from
SPCCDIX1	Integer	pixels	SOT	SP	Telemetry	255	onboard table of extracts
SPCCDIY0	Integer	pixels	SOT	SP	Telemetry	64	Index of the 1st pixel in the wavelength direction.
SPCCDIY1	Integer	pixels	SOT	SP	Telemetry	1023	Index of the last pixel in the wavelength direction.
SPMAPINX	Integer	pixels	SOT	SP	Telemetry	3	Index of the first pixel in the spatial direction.
SPWOFF	Integer	pixels	SOT	SP	Telemetry	64	Index of the last pixel in the spatial direction.
SPYOFF	Integer	pixels	SOT	SP	Telemetry	128	Repeat index for SP maps.
T_CTCCD	Float	Degrees C	SOT	CT	Telemetry	-10.00	SP wavelength offset for Doppler correction.
T_CTCEB	Float	Degrees C	SOT	CT	Telemetry	20.00	SP spatial offset in Y-axis for ROI definition.
T_FGCCD	Float	Degrees C	SOT	FG	Telemetry	-10.00	Temperature of the CT CCD at the camera head
T_FGCEB	Float	Degrees C	SOT	FG	Telemetry	20.00	Temperature of the CT Camera Electronics Box
T_FIRST	String	UTC/YYYY-MM-DDThh:mm:ss.sss	SOT		Analysis	2007-01-15T20:03:34.567	Temperature of the FG CCD at the camera head
T_LAST	String	UTC/YYYY-MM-DDThh:mm:ss.sss	SOT		Analysis	2007-01-15T20:05:28.395	Temperature of the FG Camera Electronics Box
T_SPCCD	Float	Degrees C	SOT	SP	Telemetry	-10.00	Time of first component image in a derived (Level-1 or
							Level-2) data product
							Time of last component image in a derived (Level-1 or
							Level-2) data product
							Temperature of the SP CCD at the camera head
							Temperature of the SP Camera Electronics Box

VER_RF0	String		SOLAR-B		Reformatter	SOT_Lev0_Reformatter Ver. 1.0b	Indicates the version of the reformatting program used to create Level-0 data.
VER_RF1	String		SOLAR-B		Reformatter	XRT_Lev1_Reformatter Ver 3.2	Indicates the version of the reformatting program used to create Level-1 data.
WAVE	String		SOT	FG	Telemetry	TF Fe I 6302	Description of observable ion and wavelength
WAVEID	Integer		SOT	FG	Telemetry	12	Numerical identifier of observable wavelength
WAVEOFF	Integer	milliAngstroms	SOT	FG	Telemetry	350	Offset from baseline wavelength of observable given in
WBEXP	Integer	milli-seconds	SOT	FG	Telemetry	53	WB Requested Exposure time
WBFW	Integer	Steps	SOT	FG	Telemetry	118	Position of BFI filterwheel
WEDGE	Integer	Steps	SOT	ALL	Telemetry	22	Position of CT wedge filter
XCEN	Float	arcsec	SSW		Analysis	250.2	The heliocentric coordinate (X) of the image.
XSCALE	Float	pixels	SOT	FG	Telemetry	2	CCD pixels per bin in X-coordinate. Indicates size of image pixels in units of CCD pixels to take into account summing or in readout or binning in MDP.
YCEN	Float	arcsec	SSW		Analysis	-1098.45	The heliocentric coordinate (Y) of the image.
YSCALE	Float	pixels	SOT	FG	Telemetry	4	Same as above for Y-coordinate.