

PS (Product Specific) Metadata Elements [Archive Meta data]

	Metadata Element	Defined Names of Parameters in the TOOLKIT	Object Name in the HDF	Type	Estimated size (bytes)	Description
1	Data Gaps Duration	TK_DATA_GAP	DataGaps	float	50	The sum of the duration of the data gaps in seconds in the orbit (satellite data) or granule (GV data).
2	Number of Data Gaps	TK_NUM_DATA_GAP	NumberOfDataGaps	float	50	The number of data gaps in the data in the orbit (satellite data) or granule (GV data).
3	Algorithm Version	TK_ALGORITHM_VERSION	AlgorithmVersion	char	50	The version of the science algorithm is written as “M.m”, where “M” is an integer corresponding to major revisions of the code. Major revisions are changes in the science algorithm which do affect the science, are delivered to TSDIS in an official delivery package, and require reprocessing. ”m” is an integer corresponding to minor revisions or corrections. Minor revisions or corrections are made so the science algorithm will function properly in TSDIS, do not affect the science, are not delivered to TSDIS in an official delivery package, and do not require reprocessing. ”M” is written without leading zeroes, with a range from 1 to 99. “m” is written with leading zeroes, with a range from 00 to 99. At launch, the version of all science algorithms is “1.00”.

4	Product Version Number	TK_PRODUCT_VERSION	ProductVersion	int	50	A single integer indicating the version of the product. The first Product Version Number is 1. The Product Version Number is incremented every time the product is reprocessed due to the fact that the algorithm creating it changes or the algorithms creating the input to the algorithm change.
5	Toolkit Version	TK_TOOLKIT_VERSION	ToolkitVersion	char	50	Version of Toolkit used to create this granule.
6	Calibration Coefficient Version	TK_CAL_COEF_VERSION	CalibrationCoefficientVersion	int	50	Version of the calibration coefficients. (i.e. 1,2,3, etc.)
7	Missing Data	TK_MISSING_DATA	MissingData	int	50	Number of missing scans in the orbit (satellite data), missing rays (ground radar data) or missing observations (rain gauge or disdrometer data) express in percent.
8	Percentage of Bad or Missing Pixels	TK_PERCENT_BAD_MISS_PIXCEL	PercentOfBadOrMissingPixels	char	50	List by channel of the percentage of bad or missing pixels in the orbit (satellite data) or granule (GV data). "8.95%"
9	Maximum Valid Value of Channel	TK_MAX_VALID_CHANNEL	MaximumValidValueofChannel	char	50	List by channel of the maximum valid value (value specified by the instrument scientist). 1B: "-110", 1C: "20"
10	Minimum Valid Value of Channel	TK_MIN_VALID_CHANNEL	MinimumValidValueofChannel	char	50	List by channel of the minimum valid value (value specified by the instrument scientist). 1B: "-20", 1C: "80"
11	Min Max Unit	TK_MIN_MAX_UNITS	MinMaxUnit	char	50	Units of the Minimum and Maximum valid values. 1B: "dBm", 1C: "dBZ"
12	Orbit Size	TK_ORBIT_SIZE	OrbitSize	int	50	Numbers of scans in Orbit. If the granule is empty, Orbit Size = 0.

13	Radar Wavelength	TK_RADAR_WAVELENGTH	RadarWavelength	float	50	Wavelength of the (meter). “0.02178”
14	Minimum Reflectivity Threshold	TK_MI_REF_THRESHOLD	MinimumReflectivityThreshold	float	50	The threshold (dBZ) below which ground based radar reflectivity data is set to the missing value. “-9999.9”
15	Algorithm ID	TK_ALGORITHM_ID	AlgorithmID	char	50	Name of the algorithm (i.e. 1B21, 1C21)
16	Data Accuracy	TK_DATA_ACCURACY	DataAccuracy	char	50	List by channel of the accuracy of the data.
17	Input IDs	TK_INPUT_FILES	InputFiles	char	300	List of input granule Ids. “NULL”
18	Data of Generation of Input Files	TK_GEN_DATE_INPUT_FILES	DataOfGenerationOfInputFiles	char	50	List of the generation dates of the input files. For ingested files, this is the date TSDIS received the file.
19	Data Center Source of Input Files	TK_DATA_CENTER_SRC	DataCenterSourceOfInputFiles	char	50	List of the centers generating the input files. e.g., TSDIS NMC.
20	Generation Date	TK_GEN_DATE	GenerationDate	int	50	Date the dataset was generated.
21	Day/Night	TK_DAY_NIGHT	DayNight	float	50	Percentage scans during the orbit in daytime mode. “-9999.9”
22	Solar Channel Gain	TK_SOLAR_GAIN	SolarChannelGains	float	50	Channel 1 Mirror Side A Channel 1 Mirror Side B Channel 2 Mirror Side A Channel 2 Mirror Side B
23	SSM/I Adjustment Coefficients	TK_SSMI_ADJUST	SSMIAdjustCoef	float	300	List of the intercepts and slopes defining the following correction to the brightness temperatures for channel: $\text{deltaT} = \{A_{\text{ch}} * (tb - 250) / 50\} + B_{\text{ch}}$ The entries in the list are as follows: 10GHz Vertical adjustment intercept 10GHz Horizontal adjustment intercept 19GHz Vertical adjustment intercept 19GHz Horizontal adjustment intercept 21GHz Vertical adjustment intercept

						37GHz Vertical adjustment intercept 37GHz Horizontal adjustment intercept 85GHz Vertical adjustment intercept 85GHz Horizontal adjustment intercept 10GHz Vertical adjustment slope 10GHz Horizontal adjustment slope 19GHz Vertical adjustment slope 19GHz Horizontal adjustment slope 21GHz Vertical adjustment slope 37GHz Vertical adjustment slope 37GHz Horizontal adjustment slope 85GHz Vertical adjustment slope 85GHz Horizontal adjustment slope
24	Orbit First Scan UTC Date	TK_FIRST_SCAN_UTC_DATE	OrbitFirstScanUTCDate	date	50	Orbit First Scan UTC Date. Date is a 10 character string with the following characters: YYYY/MM/DD, where YYYY = year, MM = month number, DD = day of month and “/” is a literal. If the granule is empty, the value is ‘0/0/0’. In 2A-52, UTC date is stored as “/” is replaced by “-”. In 1B-11 and 2A-12, UTC date is stored in separate words for year, month and day of month.
25	Orbit First Scan UTC Time	TK_FIRST_SCAN_UTC_TIME	OrbitFirstScanUTCTime	time	50	Orbit First Scan UTC Time. Time is an 8 character string with the following characters: HH:MM:SS, where HH = hour, MM = minute, SS = second, and “:” is a literal. If the granule is empty, the value is ‘0:0:0’. In 1B-11 and 2A-12, UTC time is stored in separate words for hour, minute, and second.

26	Orbit First Scan UTC Milliseconds	TK_FIRST_SCAN_UTC_MILLISEC	OrbitFirstScanUTCMilliseconds	int	50	Orbit First Scan UTC Milliseconds. Milliseconds is a 3 character string with the following characters: MMM, where MMM = the number of milliseconds later than the last whole second.
27	Orbit First Scantime - Spacecraft Clock Seconds	TK_FIRSTSCAN_SC_SECS	OrbitFirstSCSecs	int	50	The seconds field of the spacecraft clock time of the first scan in the orbit.
28	Orbit First Scantime - Spacecraft Clock Subseconds	TK_FIRSTSCAN_SC_SUBSECS	OrbitFirstSCSubsecs	int	50	The subseconds field of the spacecraft clock time of the first scan in the orbit.
29	Orbit Last Scan UTC Date	TK_LAST_SCAN_UTC_DATE	OrbitLastScanUTCDate	date	50	Orbit Last Scan UTC Date. See Orbit First Scan UTC Date.
30	Orbit Last Scan UTC Time	TK_LAST_SCAN_UTC_TIME	OrbitLastScanUTCTime	time	50	Orbit Last Scan UTC Time. Decided by L1A file header. See Orbit First Scan UTC Time.
31	Orbit Last Scan UTC Milliseconds	TK_LAST_SCAN_UTC_MILLISEC	OrbitLastScanUTCmilliseconds	int	50	Orbit Last Scan UTC Milliseconds. See Orbit Last Scan UTC Milliseconds.
32	Orbit Last Scantime - Spacecraft Clock Seconds	TK_LAST_SCAN_SC_SECS	OrbitLastSCSecs	int	50	The seconds field of the spacecraft clock time of the last scan in the orbit.
33	Orbit Last Scantime - Spacecraft Clock Subseconds	TK_LAST_SCAN_SC_SUBSECS	OrbitLastSCSubsecs	int	50	The subseconds field of the spacecraft clock time of the last scan in the orbit.
34	UTCF Seconds	TK_UTCF_SECONDS	UTCFSecods	int	50	The seconds field of the UTCF for the granule.
35	UTCF Subseconds	TK_UTCF_SUBSECONDS	UTCFSubseconds	int	50	The subseconds field of the UTCF for the granule.
36	UTCF Flag	TK_UTCF_FLAG	UTCFFlag	int	50	Flag that indicates the origin of the UTCF. 0 = UTCF was derived from the first ACS packet in the orbit. 1 = a corrected UTFC was used. "0"
37	Leap Second flag	TK_LEAP_SECS_FLAG	LeapSecondsFlag	int	50	Flag that indicates if a leap second occurred within the granule. 0 = no; 1 = yes.

38	Radar site name	TK_RADAR_NAME	RadarSiteName	char	50	Name of the GV radar or radar site, whichever is applicable. "NULL".
39	Radar city	TK_RADAR_CITY	RadarCity	char	50	Nearest city to the radar site. "NULL".
40	Radar state	TK_RADAR_STATE	RadarState	char	50	State or province containing the radar site, if applicable. "NULL".
41	Radar country	TK_RADAR_COUNTRY	RadarCountry	char	50	Country containing the radar site. "NULL"
42	Number of VOS	TK_NUM_VOS	NumberOfVOS	int	50	The number of volume scans in this granule. "-9999"
43	Radar Grid Origin Latitude	TK_RADAR_ORIGIN_LAT	RadarGridOriginLatitude	int	50	Latitude (degrees) of the origin. "-9999.9"
44	Radar Grid Origin Longitude	TK_RADAR_ORIGIN_LON	RadarGridOriginLongitude	int	50	Longitude (degrees) of the origin. "-9999.9"
45	Radar Grid Origin Altitude	TK_RADAR_ORIGIN_ALT	RadarGridOriginAltitude	int	50	Altitude (km) of the origin. "-9999.9"
46	Radar Grid Spacing x	TK_RADAR_SPACING_X	RadarGridSpacingX	float	50	The zonal interval (km) between grid points. "-9999.9"
47	Radar Grid Spacing y	TK_RADAR_SPACING_Y	RadarGridSpacingY	float	50	The meridional interval (km) between grid points. "-9999.9"
48	Radar Grid Spacing z	TK_RADAR_SPACING_Z	RadarGridSpacingZ	float	50	The vertical interval (km) between grid points. "-9999.9"
49	Radar Grid Size x	TK_RADAR_GRID_SIZE_X	RadarGridSizeX	int	50	The number of grid points in the zonal grid direction. "-9999"
50	Radar Grid Size y	TK_RADAR_GRID_SIZE_Y	RadarGridSizeY	int	50	The number of grid points in the meridional grid direction. "-9999"
51	Radar Grid Size z	TK_RADAR_GRID_SIZE_Z	RadarGridSizeZ	int	50	The number of grid points in the vertical grid direction. "-9999"
52	DZ Cal	TK_GV_DZCAL	DZCal	float	50	Radar calibration offset (dBZ). "-9999.9"
53	GVL1C_Scale	TK_GV_L1C_SCALE	GVL1C_Scale	float	50	Scaling factor for 1C-51 mask (unitless) "-9999.9"
54	Alpha	TK_GV_ALPHA	Alpha	float	50	Correction for gaseous two-way attenuation (dB/km). "-9999.9"

55	Runtime Options	TK_GV_RUNTIME_OPT	RuntimeOptions	char	100	Runtime options for algorithm including QC parameters used. "NULL".
56	Anomaly Flag	TK_ANOMALY_FLAG	AnomalyFlag	char	100	<p>This flag indicates if and why a granule is empty. The possible values are:</p> <p>"EMPTY: GENERATED AFTER SOFTWARE ERROR" *</p> <p>"EMPTY: NO DATA DUE TO NO RAIN"</p> <p>"EMPTY: NO DATA RECORDED"</p> <p>"EMPTY: DATA RECORDED BUT STILL MISSING"</p> <p>"EMPTY: REASON UNKNOWN" *</p> <p>"NOT EMPTY: POSSIBLE PROBLEM"</p> <p>"NOT EMPTY" *</p> <p>It is expected that satellite data would use only the three values followed by an asterisk. GV data is expected to use all seven values.</p>
57	Software Version	TK_SOFTWARE_VERSION	SoftwareVersion	int	50	Version of the Software
58	Database Version	TK_DATABASE_VERSION	DatabaseVersion	int	50	Version of PR Database in the PR L1 software.
59	Total Quality Code	TK_TOTAL_QUALITY_CODE	TotalQualityCode	char	50	Total quality of the PR L1 product. Range is 'G', 'F', or 'P'.
60	Longitude on the Equator	TK_LON_ON_EQUATOR	LongitudeOnEquator	float	50	Longitude on the equator from the ascending node. Range is -180.000 to 179.999.
61	UTC Date on the Equator	TK.UTC_DATE_ON_EQUATOR	UTCDateOnEquator	date	50	UTC date on the equator. See Orbit First Scan UTC Date.

62	UTC Time on the Equator	TK.UTC.TIME.ON.EQUATOR	UTCTimeOnEquator	time	50	UTC time on the equator. See Orbit First Scan UTC time.
63	UTC milliseconds on the equator	TK.UTC.MILLISEC.ON.EQUATOR	UTCMillisecsOnEquator	int	50	UTC millisecond on the equator. See Orbit First Scan UTC Milliseconds.
64	Orbit center scan UTC date	TK.CENTER.SCAN.UTC.DATE	CenterScanUTCDate	date	50	UTC date at orbit center scan. See Orbit First Scan UTC Date.
65	Orbit center scan UTC time	TK.CENTER.SCAN.UTC.TIME	CenterScanUTCTime	time	50	UTC time at orbit center scan. See Orbit First Scan UTC Time.
66	Orbit center scan UTC milliseconds	TK.CENTER.SCAN.UTC.MILLISEC	CenterScanUTCMillisec	int	50	UTC milliseconds at Orbit center scan. See Orbit First Scan UTC Milliseconds.
67	Orbit first scan latitude	TK.FIRST.SCAN.LAT	FirstScanLat	float	50	Latitude of orbit first scan. Range is -40.000 to 40.000.
68	Orbit first scan longitude	TK.FIRST.SCAN.LON	FirstScanLon	float	50	Longitude of orbit first scan. Range is -180.000 to 179.999
69	Orbit last scan latitude	TK.LAST.SCAN.LAT	LastScanLat	float	50	Latitude of orbit last scan. Range is -40.000 to 40.000.
70	Orbit last scan longitude	TK.LAST.SCAN.LON	LastScanLon	float	50	Longitude of orbit last scan. Range is -180.000 to 179.999
71	Number of Rain Scans	TK.NUM.OF.RAIN.SCANS	NumberOfRainScans	int	50	Number of rain scan whose Minimum Echo Flag is 1 or 2