

Metadata file Format

The metadata file describes key attributes about the image product, including product level, corner coordinates, and projection information, and time of acquisition. The metadata file (*PRODUCT_MET.TXT*) format will be as given below:

TABLE: 1 METADATA FILE FORMAT DESCRIPTION

Sr. No.	Data Type	Field Name/Dimension	Description/Example
1	Char	ProductID [12]	Product Identification Number (primary key)
2	Char	SatID [10]	CARTOSAT-1
3	Char	Sensor [8]	PAN_FORE for Cartosat-I PAN Fore Camera and PAN_AFT for Cartosat-I PAN Aft Camera
4	Char	GenAgency [4]	SAC for Space Applications Centre NRSA for National Remote Sensing Agency
5	Int	Path	Path Number e.g. 0091
6	Int	Row	Row Number e.g. 0051
7	Date	DateOfPass	DDMMYY
8	Char	PassType[8]	PLD for Payload or SSR for recorded data
9	Int	OrbitNo	e.g. 21002
10	Int	SceneSequenceNumber	e.g. 01 for normal products nn for AOI Products.
11	Int	BytesPerPixel	2 for IRS-P5
12	Date	GenerationDate	DDMMYY
13	Char	ProdCode [9]	e.g. STPC00GBJ
14	Char	ProdType [50]	STANDARDGEOCORRECTED, GEOCODED, ORTHOKIT etc.
15	Double	ResolutionAlong	Output Resolution in Meters in Scan line direction (e.g. 2.45)
16	Double	ResolutionAcross	Output Resolution in Meters in pixel direction (e.g. 2.50)
17	Char	Season [3]	JAN, FEB,.., DEC
18	Char	ImageFormat [10]	GeoTIFF/TIFF , FastFormat
19	Char	ProcessingLevel [5]	GEO - Geometrically Corrected (Geocoded/Georeference) STD – Standard RAD corrected Orthokit

20	Char	ResampCode [2]	Resampling Code. NN=Nearest Neighborhood CC=Cubic Convolution NONE
21	Int	NoScans	Number of Scan lines
22	Int	NoPixels	Number of Pixels
23	Char	MapProjection [4]	P – Polyconic, C – Cubic Convolution
24	Char	Ellipsoid [20]	Ev-Everest, W4-WGS84
25	Char	Datum [20]	e.g. EVEREST, WGS_84
26	Double	MapOriginLat	-90.0000000 to +90.0000000 degrees (with 7-digit precision) A + sign indicates a North Latitude A - sign indicates a South Latitude
27	Double	MapOriginLon	0.0000000 to +360.0000000 degrees (with 7-digit precision) A + sign indicates a East Longitude A - sign indicates a West Longitude
28	Double	ProdULLat (CoordinatePro1Lat)	Upper left (UL) Latitude of the final product -90.0000000 to +90.0000000 degrees with 7-point precision
29	Double	ProdULLon (CoordinatePro1Lon)	Upper left (UL) Longitude of the final product 0.0000000 to +360.0000000 degrees with 7-point precision
30	Double	ProdURLat (CoordinatePro2Lat)	Upper Right (UR) Latitude of the final product -90.0000000 to +90.0000000 degrees with 7-point precision)
31	Double	ProdURLon (CoordinatePro2Lon)	Upper Right (UR) Longitude of the final product 0.0000000 to +360.0000000 degrees with 7-point precision
32	Double	ProdLRLat (CoordinatePro3Lat)	Lower Right (LR) Latitude of the final product -90.0000000 to +90.0000000 degrees with 7-point precision
33	Double	ProdLRLon (CoordinatePro3Lon)	Lower Right (LR) Longitude of the final product 0.0000000 to +360.0000000 degrees with 7-point precision
34	Double	ProdLLLat (CoordinatePro4Lat)	Lower Left (LL) Latitude of the final product -90.0000000 to +90.0000000 degrees with 7-point precision

35	Double	ProdLLLon (CoordinatePro4Lon)	Lower Left (LL) Longitude of the final product 0.0000000 to +360.0000000 degrees with 7-point precision
36	Double	ProdULMapX (ProdMap1X)	Upper left (UL) projection X coordinate
37	Double	ProdULMapY (ProdMap1Y)	Upper left (UL) projection Y coordinate
38	Double	ProdUR MapX (ProdMap2X)	Upper Right (UR) projection X coordinate
39	Double	ProdURMapY (ProdMap2Y)	Upper Right (UR) projection Y coordinate
40	Double	ProdLRMapX (ProdMap3X)	Lower Right (LR) projection X coordinate
41	Double	ProdLRMapY (ProdMap3Y)	Lower Right (LR) projection Y coordinate
42	Double	ProdLLMapX (ProdMap4X)	Lower Left (LL) projection X coordinate
43	Double	ProdLLMapY (ProdMap4Y)	Lower Left (LL) projection Y coordinate
44	Double	SceneCenterLat	Scene center latitude
45	Double	SceneCenterLon	Scene center longitude
46	Double	SatelliteAltitude	Satellite altitude at Scene Centre in Kilometers
47	Double	SunAzimuth	Sun angle Azimuth at the Scene Centre (e.g. 129.0968 degrees) Up to 5 decimal places
48	Double	SunElevation	Sun angle Elevation at the Scene Centre (e.g. 72.95886 degrees) Up to 5 decimal places
49	Double	SatelliteHeading	Satellite heading angle in degrees
50	Double	AngleIncidence	Angle of Incidence at Scene Centre (Zenith Angle).
51	Char	DEMCorrection [20]	NONE CoarseDEM FineDEM UserSuppliedDEM
52	Char	SourceOrbitvalues [10]^	Source Used in DP for Orbit values, e.g. 0
53	Char	SourceQs [10]^	Source Used in DP for Q's
54	Char	CompType [4]^	Compression table used
55	Double	CCDTemp	Temperature of CCD in degree Celsius
56	Char	SceneCentreTtime [16]	Scene Centre time
57	Double	SceneCentreRoll	Scene Centre Roll
58	Double	SceneCentrePitch	Scene Centre Pitch
59	Double	SceneCentreYaw	Scene Centre Yaw

60	Char[10]	ImagingMode	MONO, STEREO
61	Double	ImageHeading	Image heading angle
62	Char[10]	CompressionTable^	Compression Table used
63	Int	YawSteeringTable Number^	Table number for yaw steering eg. 1
64	Double	Lmax	Maximum saturation radiance
65	Double	Lmin	Minimum saturation radiance
66	Int	NoLineLoss	Number of block losses for Cartosat-1.
67	Int	AdifRegenCounter^	Adif Regeneration counter
68	Int	DPSCounter^	DPS counter
69	Char[10]	MapSheetId	Map sheet Id number
70	Double	dqe_roll_bias^	Roll bias
71	Double	dqe_pitch_bias^	Pitch bias
72	Double	dqe_yaw_bias^	Yaw bias
73	Int/Int	AOISceneNo	Current/Total AOI Scene Number e.g. 01/05
74	Double	NumUserCoordinate @N	Total Number of User specified coordinates in an AOI N : Minimum = 04 and Maximum = 500
75	Double	UserLat #1 (Coordinate1Lat*)	1 st Latitude supplied by user -90.0000000 to +90.0000000 degrees with 7-point precision (Applicable Only for AOI Product)
76	Double	UserLon#1 (Coordinate1Lon*)	1 st Longitude supplied by user 0.0000000 to +360.0000000 degrees with 7-point precision (Applicable Only for AOI Product)
77	Double	UserLat#2 (Coordinate2Lat*)	2 nd Latitude supplied by user -90.0000000 to +90.0000000 degrees with 7-point precision (Applicable Only for AOI Product)
78	Double	UserLon#2 (Coordinate2Lon*)	2 nd Longitude supplied by user 0.0000000 to +360.0000000 degrees with 7-point precision (Applicable Only for AOI Product)
79	Double	UserLat #3 (Coordinate3Lat*)	3 rd Latitude supplied by user -90.0000000 to +90.0000000 degrees with 7-point precision (Applicable Only for AOI Product)
80	Double	UserLon#3 (Coordinate3Lon*)	3 rd Longitude supplied by user 0.0000000 to +360.0000000 degrees with 7-point precision (Applicable Only for AOI Product)
81	Double	UserLat #4 (Coordinate4Lat*)	4 th Latitude supplied by user -90.0000000 to +90.0000000 degrees with 7-point precision

			(Applicable Only for AOI Product)
82	Double	UserLon#4 (Coordinate4Lon*)	4 th Longitude supplied by user 0.0000000 to +360.0000000 degrees with 7-point precision (Applicable Only for AOI Product)
83	Double	UserLat#N	N th Latitude Supplied by User
84	Double	UserLon#N	N th Longitude Supplied by User.

*As per the user supplied coordinates (Coordinate1, Coordinate2,....., coordinate N) in clockwise direction enclosing a polygon.

\$Field No 20, 23 and 26 to 43 are for internal use in case of ORTHOKIT.

@, Field No 70 to UserLat#1,UserLon#1,,UserLat#N,UserLon#N are valid for AOI products only

^ Don't care for International Ground Station (IGS).