

Appendix B CERES Metadata

This section describes the metadata that are written to all CERES HDF products. [Table B-1](#) describes the CERES Baseline Header Metadata that are written on both HDF and binary direct access output science data products. The parameters are written in HDF structures for CERES HDF output products and are written as 80-byte records for binary direct access output products. Some parameters may be written in multiple records. [Table B-2](#) describes the CERES_metadata Vdata parameters which are a subset of the CERES Baseline Header Metadata and are also written to all CERES HDF output products.

[Table B-1](#) lists the item number, parameter name, units, range or allowable values, the data type, and the maximum number of elements. Note that there are two choices for parameters 24-27 and two choices for parameters 28-31. The choices depend on whether the product is described by a bounding rectangle or by a GRing. Abbreviations used in the Data Type field are defined as:

s = string	date =	yyyy-mm-dd
F = float	time =	hh:mm:ss.xxxxxxZ
I = integer	datetime =	yyyy-mm-ddThh:mm:ss.xxxxxxZ

Table B-1. CERES Baseline Header Metadata

Item	Parameter Name	Units	Range	Data Type	No. of Elements
1	ShortName	N/A	N/A	s(8)	1
2	VersionID	N/A	0 .. 255	I3	1
3	CERPGEName	N/A	N/A	s(20)	1
4	SamplingStrategy	N/A	CERES, TRMM-PFM-VIRS, Terra-FM1-MODIS, TBD	s(20)	1
5	ProductionStrategy	N/A	Edition, Campaign, DiagnosticCase, PreFlight, TBD	s(20)	1
6	CERDataDateYear	N/A	1997 .. 2050	s(4)	1
7	CERDataDateMonth	N/A	1 .. 12	s(2)	1
8	CERDataDateDay	N/A	1 .. 31	s(2)	1
9	CERHRofMonth	N/A	1 .. 744	s(3)	1
10	CERHRofDay	N/A	1 .. 24	s(2)	1
11	RangeBeginningDate	N/A	1997-11-19 .. 2050-12-31	date	1
12	RangeBeginningTime	N/A	00:00:00.000000Z .. 24:00:00.000000Z	time	1
13	RangeEndingDate	N/A	1997-11-19 .. 2050-12-31	date	1
14	RangeEndingTime	N/A	00:00:00.000000Z .. 24:00:00.000000Z	time	1
15	AssociatedPlatformShortName	N/A	TRMM, Terra, Aqua, TBD	s(20)	1-4

Table B-1. CERES Baseline Header Metadata

Item	Parameter Name	Units	Range	Data Type	No. of Elements
16	AssociatedInstrumentShortName	N/A	PFM, FM1, FM2, FM3, FM4, FM5, TBD	s(20)	1-4
17	AssociatedSensorShortName	N/A	Total Detector, Window Detector, ShortWave Detector	s(20)	3
18	LocalGranuleID	N/A	N/A	s(80)	1
19	PGEVersion	N/A	N/A	s(10)	1
20	CERProductionDateTime	N/A	N/A	datetime	1
21	LocalVersionID	N/A	N/A	s(60)	1
22	ProductGenerationLOC	N/A	SGI_xxx, TBD	s(255)	1
23	NumberOfRecords	N/A	1 .. 9 999 999 999	I10	1
24	WestBoundingCoordinate	deg	-180.0 .. 180.0	F11.6	1
25	NorthBoundingCoordinate	deg	-90.0 .. 90.0	F11.6	1
26	EastBoundingCoordinate	deg	-180.0 .. 180.0	F11.6	1
27	SouthBoundingCoordinate	deg	-90.0 .. 90.0	F11.6	1
24	GRingPointLatitude	deg	-90.0 .. 90.0	F11.6	3 .. 100
25	GRingPointLongitude	deg	-180.0 .. 180.0	F11.6	3 .. 100
26	GRingPointSequenceNo	N/A	0 .. 99999	I5	3 .. 100
27	ExclusionGRingFlag	N/A	Y (= YES), N (= NO)	s(1)	1
28	CERWestBoundingCoordinate	deg	0.0 .. 360.0	F11.6	1
29	CERNorthBoundingCoordinate	deg	0.0 .. 180.0	F11.6	1
30	CEREastBoundingCoordinate	deg	0.0 .. 360.0	F11.6	1
31	CERSouthBoundingCoordinate	deg	0.0 .. 180.0	F11.6	1
28	CERGRingPointLatitude	deg	0.0 .. 180.0	F11.6	3 .. 100
29	CERGRingPointLongitude	deg	0.0 .. 360.0	F11.6	3 .. 100
30	GRingPointSequenceNo	N/A	0 .. 99999	I5	3 .. 100
31	ExclusionGRingFlag	N/A	Y (= YES), N (= NO)	s(1)	1
32	AutomaticQualityFlag	N/A	Passed, Failed, or Suspect	s(64)	1
33	AutomaticQualityFlagExplanation	N/A	N/A	s(255)	1
34	QAGranuleFilename	N/A	N/A	s(255)	1
35	ValidationFilename	N/A	N/A	s(255)	1
36	ImagerShortName	N/A	VIRS, MODIS, TBD	s(20)	1
37	InputPointer	N/A	N/A	s(255)	800
38	NumberInputFiles	N/A	1 .. 9999	I4	1

Table B-2 describes the CERES_metadata Vdata parameters which are written to all CERES HDF output science products. The table lists the item number, parameter name, units, range or allowable values, and the parameter data type where s (x) denotes a string of x characters.

Table B-2. CERES_metadata Vdata

Item	Parameter Name	Units	Range	Data Type
1	ShortName	N/A	N/A	s(32)
2	RangeBeginningDate	N/A	1997-11-19 .. 2050-12-31	s(32)
3	RangeBeginningTime	N/A	00:00:00.000000Z .. 24:00:00:000000Z	s(32)
4	RangeEndingDate	N/A	1997-11-19 .. 2050-12-31	s(32)
5	RangeEndingTime	N/A	00:00:00.000000Z .. 24:00:00:000000Z	s(32)
6	AutomaticQualityFlag	N/A	Passed, Failed, or Suspect	s(64)
7	AutomaticQualityFlagExplanation	N/A	N/A	s(256)
8	AssociatedPlatformShortName	N/A	TRMM, Terra, Aqua, TBD	s(32)
9	AssociatedInstrumentShortName	N/A	PFM, FM1, FM2, FM3, FM4, FM5, TBD	s(32)
10	LocalGranuleID	N/A	N/A	s(96)
11	LocalVersionID	N/A	N/A	s(64)
12	CERProductionDateTime	N/A	N/A	s(32)
13	NumberOfRecords	N/A	1 .. 9 999 999 999	4-byte integer
14	ProductGenerationLOC	N/A	SGI_xxx, TBD	s(256)