

ERBE-like Regional Data (EID-6)

The ERBE-like Regional Data (EID-6) product is generated daily by the ERBE-like Inversion Subsystem (2.0). It contains data for each 2.5° region observed during a day; there are 10,368 possible regions. The EID-6 is a CERES Internal Data Product used to pass 2.5° regional statistics calculated in Subsystem 2.0 to Subsystem 3.0. The EID-6 contains the following data as determined on a regional basis.

- 2.5° one-dimensional region number
- Whole and fractional Julian date
- Average of shortwave and longwave TOA flux estimates
- Number of individual shortwave and longwave TOA flux estimates
- Standard deviation for shortwave and longwave TOA flux estimates
- Minimum and maximum individual estimates of shortwave and longwave radiant fluxes at the TOA
- Geographic scene type
- Cloud fraction (fraction of measurements associated with clear, partly-cloudy, mostly-cloudy, and overcast sky)
- Albedo fraction (fraction of shortwave measurements associated with clear, partly-cloudy, mostly-cloudy, and overcast sky)
- Satellite and Sun geometry [cosine of the solar zenith angle (shortwave estimates), spacecraft zenith angles (all estimates), relative azimuth angles (shortwave estimates)]
- Standard deviation for clear-sky albedos
- Average for longwave, clear sky TOA flux estimates
- Standard deviation for longwave, clear-sky TOA flux estimates
- Number of individual longwave, clear-sky TOA flux estimates

A complete listing of parameters for this data product can be found in [Table 1](#).

Level: 2

Frequency: 1/Day

Configuration Code: 000000 and greater

Time Interval Covered

File: Day

Record: N/A

Portion of Globe Covered

File: Regional

Record: Individual Region

Portion of Atmosphere Covered

File: TOA

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Table 1. ERBE-like Daily Regional Averages (EID-6)

Description	Units	Range	Elements/Record	Bits/Elem	Elem Num
EID-6					
EID-6_File_Header					
Logical Header (RKEY)	N/A		1	64	
Logical Header (IBUF)	N/A		9	288	
Production Date	N/A		1	64	
Production Time	N/A		1	80	
Data Begin Date	N/A		6	384	
Data End Date	N/A		6	384	
EID-6_Regional_Data_Records					
Region number	number	1 .. 10368	1	64	1
Julian day	day	2449353 .. 2458500	1	64	2
Julian time	day	0 .. 1	1	64	3
Regional_Average_Estimates					
SW flux average value	W m ⁻²	0 .. 1400	1	64	4
LW flux average value	W m ⁻²	50 .. 450	1	64	5
Regional_SW_Statistics					
SW flux number of values	number	0 .. 500	1	64	6
SW flux standard deviation	W m ⁻²	0 .. 1400	1	64	7
SW flux minimum value	W m ⁻²	0 .. 1400	1	64	8
SW flux maximum value	W m ⁻²	0 .. 1400	1	64	9
Regional_LW_Statistics					
LW flux number of values	number	0 .. 500	1	64	10
LW flux standard deviation	W m ⁻²	0 .. 400	1	64	11
LW flux minimum value	W m ⁻²	50 .. 450	1	64	12
LW flux maximum value	W m ⁻²	50 .. 450	1	64	13
Geo_Scene					
Geographic Scene Type	N/A	1 .. 5	1	64	14
Clear-sky fraction	N/A	0 .. 1	1	64	15
Partly-cloudy fraction	N/A	0 .. 1	1	64	16
Mostly-cloudy fraction	N/A	0 .. 1	1	64	17
Overcast fraction	N/A	0 .. 1	1	64	18
Albedos					
Albedo for Clear-sky	N/A	0 .. 1	1	64	19

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Table 1. ERBE-like Daily Regional Averages (EID-6)

Description	Units	Range	Elements/Record	Bits/Elem	Elem Num
Albedo for partly-cloudy	N/A	0 .. 1	1	64	20
Albedo for mostly-cloudy	N/A	0 .. 1	1	64	21
Albedo for overcast	N/A	0 .. 1	1	64	22
Angular_Averages					
Average of cosines of solar zenith angles	N/A	0 .. 1	1	64	23
Average of spacecraft zenith angles	deg	0 .. 90	1	64	24
Average of relative azimuth angles	deg	0 .. 180	1	64	25
Clear-sky_Statistics					
Clear-sky albedo standard deviation	N/A	0 .. 1	1	64	26
Clear-sky LW flux average value	W m ⁻²	50 .. 450	1	64	27
Clear-sky LW flux standard deviation	W m ⁻²	0 .. 400	1	64	28
Clear-sky LW flux number of values	number	0 .. 500	1	64	29
Spares					
Spare	N/A	N/A	1	64	30
Spare	N/A	N/A	1	64	31

TRMM Sizes		
	Total Data Bits/Record:	1984
	Total Records/File (TRMM):	27597
	Total Data Bits/File:	54752448
	Total Bits/File:	54752448
	Total MB/File:	6.5
Terra Sizes		
	Total Data Bits/Record:	1984
	Total Records/File (Terra):	72845
	Total Data Bits/File:	144524480
	Total Bits/File:	144524480
	Total MB/File:	17.2
Aqua Sizes		
	Total Data Bits/Record:	1984
	Total Records/File (Aqua):	72597
	Total Data Bits/File:	141423488
	Total Bits/File:	141423488
	Total MB/File:	16.9
Note: The sizing estimate for the EID6 in the "Internal Products Summary" Table 4 is for Terra.		

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EID6 Revision Record

The product Revision Record contains information pertaining to approved section changes. The table lists the date the Software Configuration Change Request (SCCR) was approved, the Release and Version Number, the SCCR number, a short description of the revision, and the revised sections. The authors are listed on the document cover.

EID6 Revision Record

SCCR Approval Date	Release/Version Number	SCCR Number	Description of Revision	Section(s) Affected
N/A	R3V1	N/A	<ul style="list-style-type: none"> • Updated format to comply with standards. • The EOSDIS Product Code line was removed from the document. (6/17/2008) • Some links were not working. They have now been modified. (12/09/2010) • The ASDC footer was added to the bottom of the document. (06/06/2013) • Eliminated section numbers from the Data Products Catalog. Specifically, in this document, section number 3.3 was removed. (12/17/2013) • Changed Table 1.0-4 to Table 4 and accessed the .pdf file instead of the .doc Introduction section. (06/19/2014) 	All Sec. 3.3 All All All Table 1

