Appendix D. List of Parameters by Instruments

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
ACR01	Irradiance, Solar, Total	2274	Willson	W/m^2	0.1% :: 0.0005%	1/(2 min)	N/A :: N/A	N/A :: TOA	
AIR01	Level-1A Radiance, AIRS	4301	Chahine			2/day	15 x 15 km :: G	N/A :: N/A	
AIR02	Level-1B Radiance, AIRS	2347	Chahine	W/m^2/sr/µm	0.2dg NEdT :: 0.2dg NEdT	2/day	15 x 15 km :: G	N/A :: N/A	
AIR03	CH4 Total Burden	1095	Chedin, Revercomb, Strow	ppb	175 ppb :: 150 ppb	2/day	250 km :: G	N/A :: Atmos	
AIR03	CO Total Burden	1136	Revercomb, Strow	ppb	20 :: 15	2/day	250 x 250 km :: G	N/A :: Atmos	
AIR04	Cloud Height, Top	1423	Chahine, Rizzi, Smith	km	0.5 km :: 0.25 km	2/day	50 x 50 km :: G	N/A :: Cloud	
AIR04	Cloud Ice Index	1893	Staelin	dimensionless	TBD :: TBD	2/day	50 x 50 km :: G	N/A :: Cloud	
AIR04	Cloud Liq_water Content	1908	Rosenkranz	mm	0.1 :: 0.1	2/day	50 x 50 km :: G	N/A :: Cloud	
AIR04	Cloud Cover	2062	Chahine, Rizzi, Smith	dimensionless	0.05 :: 0.025	2/day	50 x 50 km :: G	N/A :: Cloud	
AIR04	Cloud Emissivity, IR Spectral (3-14µm)	2128	Chahine, Smith	dimensionless	0.05 :: 0.025	2/day	50 x 50 km :: G	N/A :: Cloud	
AIR04	Cloud Temperature, Top	2463	Chahine, Rizzi, Smith	K	1 K :: 0.5 K	2/day	50 x 50 km :: G	N/A :: Cloud	
AIR05	Humidity Profile	1828	Chedin, Goldberg, Rosenkranz, Smith, Susskind	g/kg	10% (goal) :: 5%	2/day	50 x 50 km :: G	2 km :: Atmos	
AIR05	Precipitable Water	1869	Chedin, Goldberg, Rosenkranz, Smith, Susskind	mm	5% :: 3%	2/day	50 x 50 km :: G	N/A :: Atmos	
AIR05	Precipitation Index	1969	Staelin, Susskind	mm/day	2mm/day :: 1mm/day	2/day	50 x 50 km :: G	N/A :: Trop	
AIR06	Wind Speed, Sea_sfc	1718	Aumann	m/s		2/day	50 x 50 km :: Ocean	N/A :: Sfc	
AIR06	Ice_Sheet Cover Index	2921	Staelin	dimensionless	TBD :: TBD	2/day	50 x 50 km :: Land/Cryo	N/A :: Sfc	
AIR06	Snow Cover Index	3018	Staelin	dimensionless	TBD :: TBD	2/day	50 x 50 km :: Land	N/A :: Sfc	
AIR06	Sea_Ice Cover	3151	Staelin	fraction	0.1 :: 0.1	2/day	50 x 50 km :: Ocean/Cryo	N/A :: Sfc	
AIR07	Temperature Profile	1588	Chedin, Goldberg, Rosenkranz, Smith, Susskind	K	1.0 K :: 0.4 K	2/day	50 x 50 km :: G	1 km :: Atmos	
AIR07	Land_sfc Emissivity, IR/MW Spectral	2113	Chedin, Goldberg, Revercomb, Rosenkranz, Susskind	dimensionless	0.05 :: 0.025	2/day	50 x 50 km :: Land	N/A :: Sfc	
AIR07	Land_sfc Temperature, Skin	2481	Chedin, Goldberg, Revercomb, Smith, Susskind	K	1.0 K :: 0.5 K	2/day	50 x 50 km :: Land	N/A :: Sfc	
AIR07	Sea_sfc Temperature (SST), Skin	2523	Chedin, Goldberg, Revercomb, Smith, Susskind	K	0.5 K :: 0.4 K	2/day	50 x 50 km :: Ocean	N/A :: Sfc	
AIR07	Land_sfc Temperature-Difference, Day-Night	2539	Chedin, Goldberg, Revercomb, Smith, Susskind	K	0.5 K :: 0.25 K	1/day	50 x 50 km :: G	N/A :: Sfc	
AIR08	O3 Total Burden	1332	Chedin, Revercomb, Smith, Strow, Susskind	Dobson unit	15% :: 10%	2/day	50 x 50 km :: G	N/A :: Atmos	
AIR08	O3 Conc	3690	Revercomb, Strow, Susskind	Dobson unit	20% :: 15%	2/day	50 x 50 km :: G	4 levels :: Atmos	
AIR09	Radiance, Cloud Cleared, Level-2	3683	Chahine, Smith, Susskind	W/m^2/sr/µm	0.2 K :: 0.1 K	2/day	15 x 15 km :: G	N/A :: Atmos	
AIR10	Radiative Flux, LW, Net Global Sfc	2176	Gautier, Revercomb, Susskind	W/m^2	<15 :: TBD	2/day	50 x 50 km :: G	N/A :: Sfc	
AIR10	Radiative Flux, LW Spectral, TOA	2209	Gautier, Susskind	W/m^2	TBD :: TBD	2/day	50 x 50 km :: G	N/A :: TOA	
AIR10	Radiative Flux, LW Spectral, Sfc	2210	Gautier	W/m^2	TBD :: TBD	2/day	50 x 50 km :: G	N/A :: Sfc	
AIR10	Radiative Flux, SW, Net Global Sfc	2232	Gautier	W/m^2	<15 :: <5	1/day	50 x 50 km :: G	N/A :: Sfc	
AMR01	AMR Science Data Record	6223	Fu						
AMS01	Level-1A Radiance, AMSU-A	4302	Chahine			2/day	50 x 50 km :: G	N/A :: N/A	
AMS02	Level-1B Radiance, AMSU-A	2350	Chahine	K	0.2dg NEdT :: 0.2dg NEdT	2/day	50 x 50 km :: G	N/A :: N/A	
ASR01	Level-1B Radiance (Brightness Temperature), AMSR	3602	ESA	K	0.2-0.7 K ::		6 - 60 km :: G	N/A ::	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR02	Precipitation (Land)	3709	Adler, Alishouse, Spencer		100% ::		6 km :: Land	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.

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ASR02	Precipitation (Ocean, 2 layers)	3711	Wilheit, Adler, Spencer		50% ::		14 km :: Ocean	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR03	Cloud Liquid_Water Content	3598	Wentz	mg/cm^2	3 mg/cm^2		14 km :: Ocean	N/A :: Trop	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR04	Precipitable Water	3596	Wentz	g/cm^2	0.2 g/cm^2 ::		14 km :: Ocean	Column :: Trop	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR05	Wind Speed, Sea_sfc	3594	Wentz	m/s	1.5 m/s* ::		14, 25 km :: Ocean	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR06	Sea Surface Temperature (SST)	3603	Wentz	K	1 K* ::		60 km :: Ocean	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR07	Snow Depth	3713	TBD				23 km :: Land	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR08	Snow Water Content (Liquid Water Equivalent)	3715	TBD				23 km :: Land	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR09	Land Surface Class	3717	TBD				38 km :: Land	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR10	Soil Moisture	3605	TBD		50% ::		60 km :: Land	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR11	Sea_Ice Conc	3611	Cavalieri, Comiso		7% ::		12 km :: Ocean/Cryo	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR12	Sea_Ice Type	3609	Cavalieri, Comiso		11% ::		12 km :: Ocean/Cryo	:: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR13	Precipitation (Land)	3709A1	Adler, Alishouse, Spencer		20% ::	1/day	1.0 deg ::	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR13	Precipitation (Ocean)	3711A1	Wilheit, Adler, Spencer		10% ::	1/day	1.0 deg ::	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR14	Cloud Liquid_Water Content	3598A1	Wentz	mg/cm^2	1 mg/cm^2	1/day	1.0 deg ::	N/A :: Trop	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR15	Precipitable Water	3596A1	Wentz	g/cm^2	<0.1 g/cm^2 ::	1/day	1.0 deg ::	Column :: Trop	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR16	Wind Speed, Sea_sfc	3594A1	Wentz	m/s	<0.5 m/s* ::	1/day	1.0 deg ::	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR17	Sea Surface Temperature (SST)	3603A1	Wentz	K	<0.2 K* ::	1/day	1.0 deg ::	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR18	Snow Depth	3713A1	TBD			1/day	25 km ::	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR19	Snow Water Content (Liquid Water Equivalent)	3715A1	TBD			1/day	25 km ::	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.

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ASR20	Land Surface Class	3717A1	TBD			1/day	25 km ::	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR21	Soil Moisture	3605A1	TBD		20% ::	1/day	25 km ::	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR22	Sea_Ice Conc	3611A1	Cavalieri, Comiso		2% ::	1/day	12 km ::	N/A :: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR23	Sea_Ice Type	3609A1	Cavalieri, Comiso		3% ::	1/day	12 km ::	:: Sfc	MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR24	Cloud Liquid_Water Content	4328	Adler						MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR25	Precipitable Water	4329	Adler						MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR26	Precipitable Ice	4330	Adler						MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
ASR27	Latent Heat	4331	Adler						MIMR is replaced by AMSR. The Prod_IDs are defined using "ASR" to avoid conflict.
AST01	Level-1A Data, ASTER, Reconstructed Unprocessed	3801	Tsu	counts	TBS :: TBS	1/(16 day)	15, 30, 90 m :: Global	N/A :: at sensor	Processed in Japan.
AST01	Level-1A Data, Browse	3802	Tsu, Kahle	counts	TBS :: TBS	1/(16 day)	TBS :: Global	N/A :: at sensor	Processed in Japan.
AST03	Level-1B Radiance, ASTER, Registered, At-sensor	2452	Tsu, Kahle, Kieffer	W/m^2/sr/µm	2-4% :: 1%	1/(16 day)	15, 30, 90 m :: Global	N/A :: at sensor	Processed in Japan. Cloud-free scenes only.
AST04	Brightness Temperature	4304	Kahle, Christiansen	K	1-2K :: 0.3K	1/(16 day)	90 m :: Global	N/A :: at sensor	
AST05	Land_sfc Emissivity	2124	Kahle, Gillespie	dimensionless	0.05-0.1 :: 0.005	1/(16 day)	90 m :: Land/R,L	N/A :: Sfc	
AST06	Decorrelation Stretch—TIR	2129	Kahle	dimensionless	N/A :: N/A	1/(16 day)	90 m :: Land/R,L	N/A :: Sfc	Cloud-free scenes only.
AST06	Decorrelation Stretch—VNIR	2435	Kahle	dimensionless	N/A :: N/A	1/(16 day)	15 m :: Land/R,L	N/A :: Sfc	
AST06	Decorrelation Stretch—SWIR	6103	Kahle	dimensionless	N/A :: N/A	1/(16 day)	30 m :: Land/R,L	N/A :: Sfc	Cloud-free scenes only. Accuracies changed to N/A on review.
AST07	Land_sfc Reflectance, VNIR/SWIR	2433	Slater	dimensionless	4% :: 1%	1/(16 day)	15, 30 m :: Land/R,L	N/A :: Sfc	
AST08	Land_sfc Temperature, Kinetic	3803	Kahle, Gillespie	K	1-4K :: 0.3K	1/(16 day)	90 m :: Land/R,L	N/A :: Sfc	
AST09	Level-2 Radiance—VNIR/SWIR, Land_leaving	2378	Slater, Kahle	W/m^2/sr/µm	2% :: 1%	1/(16 day)	15, 30 m :: Land/R,L	N/A :: Sfc	
AST09	Level-2 Radiance—TIR, Land_leaving	3817	Palluconi, Kahle	W/m^2/sr/µm	2% :: 1%	1/(16 day)	90 m :: Land/R,L	N/A :: Sfc	
AST10	Scene Classification	3804	Gillespie	N/A	N/A :: N/A	1/(16 day)	15, 30, 90 m :: Global/R,L	N/A :: Sfc	
AST13	Cloud Map, Polar	3818	Welch	dimensionless	3% :: 3%	1/(16 day)	15, 30, 90 m :: Polar/R,L	N/A :: Cloud	
AST14	Elevation, Land_sfc [DEM]	2828	Welch	m	<50m :: <30m	1/(16 day)	15 m :: Land/R,L	30 m :: Sfc	
CER01	Level 1B Radiance, SW_filtered, CERES	4002	Barkstrom	W/m^2/sr	2% :: 0.5%	1/day	25 km :: G (AM & PM), 54N-54S (TRMM)	N/A :: N/A	BDS parameter 5. Quality flag included in BDS parameter 7. BDS frequency 1/day
CER01	Level 1B Radiance, Total_filtered, CERES	4003	Barkstrom	W/m^2/sr	1 - 2% :: 0.5%	1/day	25 km :: G (AM & PM), 54N-54S (TRMM)	N/A :: N/A	BDS parameter 4. Quality flag included in BDS parameter 7. BDS frequency 1/day
CER01	Level 1B Radiance, Window_filtered, CERES	4004	Barkstrom	W/m^2/sr	1 - 2% :: 0.5%	1/day	25 km :: G (AM & PM), 54N-54S (TRMM)	N/A :: N/A	BDS parameter 6. Quality flag included in BDS parameter 7. BDS frequency 1/day
CER02	Radiance, Total, Filtered	4018	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: TOA	ES-8 parameter number 17. ES-8 frequency 1/day
CER02	Radiance, SW, Filtered	4019	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: TOA	ES-8 parameter number 18. ES-8 frequency 1/day
CER02	Radiance, Window, Filtered	4020	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: TOA	ES-8 parameter number 19. ES-8 frequency 1/day

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CER02	Radiance, SW, Unfiltered	4022	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: TOA	ES-8 parameter number 23. ES-8 frequency 1/day
CER02	Radiance, LW, Unfiltered	4023	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: TOA	ES-8 parameter number 24. ES-8 frequency 1/day
CER02	Radiance, Window, Unfiltered	4024	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: TOA	ES-8 parameter number 25. ES-8 frequency 1/day
CER02	Radiative Fluxes, SW, TOA	4025	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: TOA	ES-8 parameter number 26. ES-8 frequency 1/day
CER02	Radiative Fluxes, LW, TOA	4026	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: TOA	ES-8 parameter number 27. ES-8 frequency 1/day
CER02	ERBE Scene Type	4027	Barkstrom	N/A		1/day	25 km :: G	N/A :: Sfc	ES-8 parameter number 28. Types: CLR Ocean, CLR Land, CLR Snow, CLR Desert, CLR Coastal; PC Ocean, PC land-desert, PC Coastal, MC Ocean, MC land-desert, MC Coastal, OV. ES-8 frequency 1/day
CER02	Radiative Fluxes, SW, Down, Sfc	4028	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: Sfc	ES-8 parameter number 29. ES-8 frequency 1/day
CER02	Radiative Fluxes, LW, Down, Sfc	4029	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: Sfc	ES-8 parameter number 30. ES-8 frequency 1/day
CER02	Radiative Fluxes, SW, Net, Sfc	4030	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: Sfc	ES-8 parameter number 31. ES-8 frequency 1/day
CER02	Radiative Fluxes, LW, Net, Sfc	4031	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	25 km :: G	N/A :: Sfc	ES-8 parameter number 32. ES-8 frequency 1/day
CER02	Precipitable Water	4032	Barkstrom	cm	1-2 % :: 0.5%	1/day	25 km :: G	N/A :: Sfc	ES-8 parameter number 33. ES-8 frequency 1/day
CER03	Radiative Flux, SW, Statistics, Monthly_Avg_Day	4037	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 4-8. Mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Statistics, Monthly_Avg_Day	4038	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 9-13. Mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Albedo, Monthly_Avg_Day	4039	Barkstrom	N/A	1% :: 1%	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 14
CER03	Radiative Flux, Net, Monthly_Avg_Day	4040	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 15
CER03	Solar Incidence, Monthly Total Integrated	4041	Barkstrom	N/A		1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 16
CER03	Radiative Flux, SW, Clear_sky, Statistics, Monthly_Avg_Day	4042	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 17-21. Mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Clear_sky, Statistics, Monthly_Avg_Day	4043	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 22-26. Mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Albedo, Clear_sky, Monthly_Avg_Day	4044	Barkstrom	N/A	1% :: 1%	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 27
CER03	Radiative Flux, Net, Clear_sky, Monthly_Avg_Day	4045	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 28
CER03	Solar Incidence, Clear_sky, Monthly_Avg_Day	4046	Barkstrom	N/A	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 29
CER03	Radiative Flux, SW, Down, Sfc, Statistics, Monthly_Avg_Day	4047	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 30-34. Mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, SW, Net, Sfc, Statistics, Monthly_Avg_Day	4048	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 35-39. Mean, minimum & maximum values, standard deviation, number of days with at least one sample.

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CER03	Radiative Flux, LW, Down, Sfc, Statistics, Monthly_Avg_Day	4049	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 40-44. Mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Net, Sfc, Statistics, Monthly_Avg_Day	4050	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 45-49. Mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Water Vapor, Sfc, Statistics, Monthly_Avg_Day	4051	Barkstrom	multiple	1-2 % :: 0.5%	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 50-54. Monthly mean-day, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, SW, Statistics, Monthly_Avg_Hour	4052	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 55-59. Monthly mean-hourly, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Statistics, Monthly_Avg_Hour	4053	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 60-64. Monthly mean-hourly, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Albedo, Monthly_Avg_Hour	4054	Barkstrom	N/A	1% :: 1%	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 65
CER03	Radiative Flux, Net, Monthly_Avg_Hour	4055	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 66
CER03	Solar Incidence, Monthly_Avg_Hour	4056	Barkstrom	N/A	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 67
CER03	Radiative Flux, SW, Clear_sky, Statistics, Monthly_Avg_Hour	4057	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 68-72. Monthly mean-hourly, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Clear_sky, Statistics, Monthly_Avg_Hour	4058	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 73-77. Monthly mean-hourly, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Albedo, Clear_sky, Monthly_Avg_Hour	4059	Barkstrom	N/A	1% :: 1%	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 78
CER03	Radiative Flux, Net, Clear_sky, Monthly_Avg_Hour	4060	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 79
CER03	Solar Incidence, Clear_sky, Monthly_Avg_Hour	4061	Barkstrom	N/A	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 80
CER03	Radiative Flux, SW, Down, Sfc, Statistics, Monthly_Avg_Hour	4062	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 81-85. Monthly mean-hourly, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, SW, Net, Sfc, Statistics, Monthly_Avg_Hour	4063	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 86-90. Monthly mean-hourly, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Down, Sfc, Statistics, Monthly_Avg_Hour	4064	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 91-95. Monthly mean-hourly, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Net, Sfc, Statistics, Monthly_Avg_Hour	4065	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 96-100. Monthly mean-hourly, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Water Vapor, Sfc, Statistics, Monthly_Avg_Hour	4066	Barkstrom	multiple	1-2 % :: 0.5%	1/mon	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 101-105. Monthly mean-hourly, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Solar Constant, Distance-Corrected, Daily_Avg	4067	Barkstrom	W/m^2		1/day	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 106

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CER03	Radiative Flux, SW, Statistics, Daily_Avg	4068	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5 x 2.5 deg :: G	N/A :: TOA	For each day of month: mean, minimum & maximum values, standard deviation, number of days with at least one sample. ES-9 parameter 107-111
CER03	Radiative Flux, LW, Statistics, Daily_Avg	4069	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 112-116. For each day of month: mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Albedo, Daily_Avg	4070	Barkstrom	N/A	1% :: 1%	1/day	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 117
CER03	Solar Incidence, Daily_Avg	4071	Barkstrom	N/A	5 W/m^2 :: 5 W/m^2	1/day	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 118
CER03	Radiative Flux, SW, Clear_sky, Statistics, Daily_Avg	4072	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 119-123. For each day of month: mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Clear_sky, Statistics, Daily_Avg	4073	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 124-128. For each day of month: mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Albedo, Clear_sky, Daily_Avg	4074	Barkstrom	N/A	1% :: 1%	1/day	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 129
CER03	Radiative Flux, SW, Down, Sfc, Statistics, Daily_Avg	4075	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 130-134. For each day of month: mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, SW, Net, Sfc, Statistics, Daily_Avg	4076	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 135-139. For each day of month: mean, minimum & maximum values, standard deviation, number of days with at least one sample. ES-9 parameter 135-139.
CER03	Radiative Flux, LW, Down, Sfc, Statistics, Daily_Avg	4077	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 140-144. For each day of month: mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Net, Sfc, Statistics, Daily_Avg	4078	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5 x 2.5 deg :: G	N/A :: Sfc	For each day of month: mean, minimum & maximum values, standard deviation, number of days with at least one sample. ES-9 parameter 145-149
CER03	Water Vapor, Sfc, Statistics, Daily_Avg	4079	Barkstrom	cm	1-2 % :: 0.5%	1/day	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 150-154. For each day of month: mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, SW, Statistics, Monthly_Hourly_Avg	4080	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 155-161. For each hour of day: monthly mean, minimum & maximum values, standard deviation, number of days with at least one sample, sum of flux estimates & sum of flux estimates squared.
CER03	Radiative Flux, LW, Statistics, Monthly_Hourly_Avg	4081	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 162-168. For each hour of day: monthly mean, minimum & maximum values, standard deviation, number of days with at least one sample, sum of flux estimates & sum of flux estimates squared.

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CER03	Albedo, Monthly_Hourly_Avg	4082	Barkstrom	N/A	1% :: 1%	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 169
CER03	Solar Incidence, Monthly_Hourly_Avg	4083	Barkstrom	N/A	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 170
CER03	Radiative Flux, SW, Clear_sky, Statistics, Monthly_Hourly_Avg	4084	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 171-177. For each hour of day: monthly mean, minimum & maximum values, standard deviation, number of days with at least one sample, sum of flux estimates & sum of flux estimates squared.
CER03	Radiative Flux, LW, Clear_sky, Statistics, Monthly_Hourly_Avg	4085	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 178-184. For each hour of day: monthly mean, minimum & maximum values, standard deviation, number of days with at least one sample, sum of flux estimates & sum of flux estimates squared.
CER03	Albedo, Clear_sky, Monthly_Hourly_Avg	4086	Barkstrom	N/A	1% :: 1%	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 185
CER03	Solar Incidence, Clear_sky, Monthly_Hourly_Avg	4087	Barkstrom	N/A	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 186
CER03	Radiative Flux, SW, Down, Sfc, Statistics, Monthly_Hourly_Avg	4088	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 187-191. For each hour of day: monthly mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, SW, Net, Sfc, Statistics, Monthly_Hourly_Avg	4089	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 192-196. For each hour of day: monthly mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Down, Sfc, Statistics, Monthly_Hourly_Avg	4090	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 197-201. For each hour of day: monthly mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Radiative Flux, LW, Net, Sfc, Statistics, Monthly_Hourly_Avg	4091	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 202-206. For each hour of day: monthly mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Water Vapor, Sfc, Statistics, Monthly_Hourly_Avg	4092	Barkstrom	cm	1-2 % :: 0.5%	24/mon [1-mon avg for each local-hr of day]	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 207-211. For each hour of day: monthly mean, minimum & maximum values, standard deviation, number of days with at least one sample.
CER03	Albedo Vector, Hourly	4096	Barkstrom	N/A	1% :: 1%	1/hr	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 218. For 4 cloud cover cases
CER03	Solar Incidence, Hourly	4098	Barkstrom	N/A		1/hr	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 222
CER03	Radiative Flux, SW, Statistics, Hourly	4099	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/hr	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 223-227, 233. For each hour in month: hourly mean, minimum & maximum values, maximum difference, standard deviation, number of days with at least one sample.

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CER03	Radiative Flux, LW, Statistics, Hourly	4100	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 228-232, 234. For each hour in month: hourly mean, minimum & maximum values, maximum difference, standard deviation, number of days with at least one sample.
CER03	Albedo, Clear_sky, Hourly	4101	Barkstrom	N/A	1% :: 1%	1/hr	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 235
CER03	Radiative Flux, LW, Clear_sky, Statistics, Hourly	4102	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	2.5 x 2.5 deg :: G	N/A :: TOA	ES-9 parameter 236-238. For each hour in month: hourly mean, standard deviation, number of samples.
CER03	Radiative Flux, SW, Down, Sfc, Hourly	4103	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 239
CER03	Radiative Flux, SW, Net, Sfc, Hourly	4104	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 240
CER03	Radiative Flux, LW, Down, Sfc, Hourly	4105	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 241
CER03	Radiative Flux, LW, Net, Sfc, Hourly	4106	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 242
CER03	Water Vapor, Sfc, Hourly	4107	Barkstrom	cm	1-2 % :: 0.5%	1/hr	2.5 x 2.5 deg :: G	N/A :: Sfc	ES-9 parameter 243
CER04	Radiance, Total_filtered, TOA Observed	4402	Barkstrom	W/m^2/sr		1/hr	25 km :: G	N/A :: TOA	CRS parameter 30
CER04	Radiance, SW_filtered, TOA Observed	4403	Barkstrom	W/m^2/sr		1/hr	25 km :: G	N/A :: TOA	CRS parameter 31
CER04	Radiance, LW Window_filtered, TOA Observed	4404	Barkstrom	W/m^2/sr		1/hr	25 km :: G	N/A :: TOA	CRS parameter 32
CER04	Radiance, Total_unfiltered, TOA Observed	4405	Barkstrom	W/m^2/sr		1/hr	25 km :: G	N/A :: TOA	CRS parameter 33
CER04	Radiance, SW_unfiltered, TOA Observed	4406	Barkstrom	W/m^2/sr		1/hr	25 km :: G	N/A :: TOA	CRS parameter 34
CER04	Radiance, LW Window_unfiltered, TOA Observed	4407	Barkstrom	W/m^2/sr		1/hr	25 km :: G	N/A :: TOA	CRS parameter 35
CER04	Radiative Flux, SW, TOA Observed	4409	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/hr	25 km :: G	N/A :: TOA	CRS parameter 39
CER04	Radiative Flux, LW, TOA Observed	4410	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	25 km :: G	N/A :: TOA	CRS parameter 40
CER04	Radiative Flux, LW Window, TOA Observed	4411	Barkstrom	W/m^2	3 W/m^2 :: 3 W/m^2	1/hr	25 km :: G	N/A :: TOA	CRS parameter 41
CER04	Radiance, Imager, statistics, Footprint	4415	Barkstrom	W/m^2/sr/µm		1/hr	25 km :: G	N/A :: TOA	CRS parameter 45-53
CER04	Reflectance, Bidirectional	4416	Barkstrom	TBD		1/hr	25 km :: G	N/A :: TOA	CRS parameter 54
CER04	Precipitable Water	4419	Barkstrom	cm		1/hr	25 km :: G	N/A :: TOA	CRS parameter 57
CER04	Imager Radiance, Statistics, Footprint Clear_sky	4421	Barkstrom	W/m^2/sr/µm		1/hr	25 km :: G	N/A :: TOA	CRS parameter 68-73
CER04	Aerosol Optical Depth, Stratospheric, Footprint Clear_sky	4422	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 74
CER04	Aerosol Effective Radius, Stratospheric, Footprint Clear_sky	4423	Barkstrom	µm		1/hr	25 km :: G	N/A :: TOA	CRS parameter 75
CER04	Aerosol Optical Depth, Total, Footprint Clear_sky	4424	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 76
CER04	Aerosol Effective Radius, Total, Footprint Clear_sky	4425	Barkstrom	µm		1/hr	25 km :: G	N/A :: TOA	CRS parameter 77
CER04	Cloud Area Fraction, Overcast	4428	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 80
CER04	Cloud Area Fraction, Total	4429	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 81
CER04	Cloud Area Fraction, Broken	4430	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 82
CER04	Imager Radiance, Statistics, 4 Cloud Layers	4431	Barkstrom	W/m^2/sr/µm		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 83-88
CER04	Cloud Optical Depth, Visible, Statistics, 4 Cloud Layers	4432	Barkstrom	N/A		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 89, 90
CER04	Cloud Emissivity, IR, Statistics, 4 Cloud Layers	4433	Barkstrom	N/A		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 91, 92
CER04	Cloud Liquid Water Path, Statistics, 4 Cloud Layers	4434	Barkstrom	g/m^2	25% :: 25%	1/hr	25 km :: G	lyr :: Cloud	CRS parameter 93, 94
CER04	Cloud Ice Water Path, Statistics, 4 Cloud Layers	4435	Barkstrom	g/m^2		1/hr	25 km :: G		CRS parameter 95, 96
CER04	Cloud Pressure, Top, Statistics, 4 Cloud Layers	4436	Barkstrom	hPa	30 hPa :: 30 hPa	1/hr	25 km :: G	lyr :: Cloud	CRS parameter 97, 98
CER04	Cloud Pressure, Effective, Statistics, 4 Cloud Layers	4437	Barkstrom	hPa		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 99, 100
CER04	Cloud Temperature, Effective, Statistics, 4 Cloud Layers	4438	Barkstrom	K		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 101, 102

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CER04	Cloud Height, Effective, Statistics, 4 Cloud Layers	4439	Barkstrom	km		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 103, 104
CER04	Cloud Pressure, Base, Statistics, 4 Cloud Layers	4440	Barkstrom	hPa	60 hPa :: 60 hPa	1/hr	25 km :: G	lyr :: Cloud	CRS parameter 105, 106
CER04	Cloud Water Particle Radius, Statistics, 4 Cloud Layers	4441	Barkstrom	µm		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 107, 108
CER04	Cloud Ice Particle Radius, Statistics, 4 Cloud Layers	4442	Barkstrom	µm		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 109, 110
CER04	Cloud Particle Phase, Statistics, 4 Cloud Layers	4443	Barkstrom	N/A	10% :: 10%	1/hr	25 km :: G	lyr :: Cloud	CRS parameter 111
CER04	Cloud Aspect Ratio, Statistics, 4 Cloud Layers	4444	Barkstrom	N/A		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 112, 113
CER04	Optical Depth, Visible/IR Emissivity, 13 percentiles, 4 Cloud Layers	4445	Barkstrom	N/A		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 114
CER04	Cloud Overlap Pixel Number, 11 Overlap Conditions	4446	Barkstrom	N/A		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 115
CER04	Cloud Area Fraction, Total, 11 Overlap Conditions	4447	Barkstrom	N/A		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 116
CER04	Pressure, Atmos Layers	4449	Barkstrom	hPa		1/hr	25 km :: G	lyr :: Cloud	CRS parameter 118
CER04	Radiative Flux, SW, Up, Atmos layer, tuned, Clear_sky and Total_sky	4450	Barkstrom	W/m^2	TBD	1/hr	25 km :: G	2 levels (18 months after launch); 18 levels (36 months after launch) :: Atmos	CRS parameter 119
CER04	Radiative Flux, SW, Down, Atmos layer, tuned, Clear_sky and Total_sky	4451	Barkstrom	W/m^2	TBD	1/hr	25 km :: G	2 levels (18 months after launch); 18 levels (36 months after launch) :: Atmos	CRS parameter 120
CER04	Radiative Flux, LW, Up, Atmos layer, tuned, Clear_sky and Total_sky	4452	Barkstrom	W/m^2	TBD	1/hr	25 km :: G	2 levels (18 months after launch); 18 levels (36 months after launch) :: Atmos	CRS parameter 121
CER04	Radiative Flux, LW, Down, Atmos layer, tuned, Clear_sky and Total_sky	4453	Barkstrom	W/m^2	TBD	1/hr	25 km :: G	2 levels (18 months after launch); 18 levels (36 months after launch) :: Atmos	CRS parameter 122
CER04	Radiative Flux Adjustment, SW, Up, Atmos layer, Sfc & TOA, Clear_sky and Total_sky	4454	Barkstrom	W/m^2		1/hr	25 km :: G	N/A :: TOA	CRS parameter 123
CER04	Radiative Flux Adjustment, SW, Down, Atmos layer, Sfc & TOA, Clear_sky and Total_sky	4455	Barkstrom	W/m^2		1/hr	25 km :: G	N/A :: Atmos	CRS parameter 124
CER04	Radiative Flux Adjustment, LW, Up, Atmos layer, Sfc & TOA, Clear_sky and Total_sky	4456	Barkstrom	W/m^2		1/hr	25 km :: G	N/A :: Atmos	CRS parameter 125
CER04	Radiative Flux Adjustment, LW, Down, Atmos layer, Sfc & TOA, Clear_sky and Total_sky	4457	Barkstrom	W/m^2	15 W/m^2 :: 15 W/m^2	1/hr	25 km :: G	N/A :: Sfc	CRS parameter 126
CER04	Photosynthetically Active Radiation, Surface	4458	Barkstrom	W/m^2	10% :: 10%	1/hr	25 km :: G	N/A :: Sfc	CRS parameter 127
CER04	Direct/Diffuse Ratio, Surface	4459	Barkstrom	dimensionless	10% :: 10%	1/hr	25 km :: G	N/A :: Sfc	CRS parameter 128
CER04	Precipitable Water Delta, Adjusted, Clear_sky	4460	Barkstrom	cm	10% :: 10%	1/hr	25 km :: G	N/A :: Atmos	CRS parameter 129
CER04	Surface Albedo Delta, Adjusted, Clear_sky	4461	Barkstrom	N/A		1/hr	25 km :: G	N/A :: Sfc	CRS parameter 130
CER04	Aerosol Optical Depth Delta, Adjusted, Clear_sky	4462	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 131
CER04	Skin Temperature Delta, Adjusted, Clear_sky	4463	Barkstrom	K		1/hr	25 km :: G	N/A :: Sfc	CRS parameter 132

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CER04	Visible Optical Depth Delta, Adjusted, Statistics	4464	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 133, 134
CER04	Cloud Fractional Area Delta, Adjusted, Statistics	4465	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 135, 136
CER04	IR Emissivity Delta, Adjusted, Statistics	4466	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 137, 138
CER04	Cloud Temperature Delta, Effective, Adjusted, Statistics	4467	Barkstrom	K		1/hr	25 km :: G	N/A :: TOA	CRS parameter 139, 140
CER04	Optical Depth/IR Emissivity Frequency Distribution Delta, Adjusted	4468	Barkstrom	N/A		1/hr	25 km :: G	N/A :: TOA	CRS parameter 141
CER05	Radiative Flux, SW, Up, Statistics, TOA, Total_sky	4482	Barkstrom	W/m^2	5-10 W/m^2 :: 5-10 W/m^2	1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 13. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Up, Statistics, TOA, Total_sky	4483	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 14. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Up, Window, Statistics, TOA, Total_sky	4484	Barkstrom	W/m^2/sr	2% :: 0.2%	1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 15. Statistics include mean, standard deviation and number of obervations.
CER05	SARB SW Flux, (Obs.-Untuned) Statistics, Total_sky TOA	4485	Barkstrom	W/m^2/sr	TBD	1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 16. Statistics include mean, standard deviation and number of obervations.
CER05	SARB SW Flux, (Obs.-Tuned) Statistics, Total_sky TOA	4486	Barkstrom	W/m^2/sr	TBD	1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 17. Statistics include mean, standard deviation and number of obervations.
CER05	SARB LW Flux, (Obs.-Untuned) Statistics, Total_sky TOA	4487	Barkstrom	W/m^2/sr	TBD	1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 18. Statistics include mean, standard deviation and number of obervations.
CER05	SARB LW Flux, (Obs.-Tuned) Statistics, Total_sky TOA	4488	Barkstrom	W/m^2/sr	TBD	1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 19. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Down, Tuned, Statistics, Sfc, Total_sky	4489	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 20. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Up, Tuned, Statistics, Sfc, Total_sky	4490	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 21. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Down, Tuned, Statistics, Sfc, Total_sky	4491	Barkstrom	W/m^2	15 W/m^2 :: 15 W/m^2	1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 22. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Up, Tuned, Statistics, Sfc, Total_sky	4492	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 23. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Down, (Tuned-Untuned) Statistics, Sfc, Total_sky	4493	Barkstrom	W/m^2	TBD	1/hr	1.25 x 1.25 deg :: G	N/A :: Atmos	FSW parameter 24. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Up, (Tuned-Untuned) Statistics, Sfc, Total_sky	4494	Barkstrom	W/m^2	TBD	1/hr	1.25 x 1.25 deg :: G	N/A :: Atmos	FSW parameter 25. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Down, (Tuned-Untuned) Statistics, Sfc, Total_sky	4495	Barkstrom	W/m^2	TBD	1/hr	1.25 x 1.25 deg :: G	N/A :: Atmos	FSW parameter 26. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Up, (Tuned-Untuned) Statistics, Sfc, Total_sky	4496	Barkstrom	W/m^2	TBD	1/hr	1.25 x 1.25 deg :: G	N/A :: Atmos	FSW parameter 27. Statistics include mean, standard deviation and number of obervations.

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CER05	Radiative Flux, SW, Down, Tuned, Statistics, Atmos Levels, Total_sky	4497	Barkstrom	W/m^2	TBD	1/hr	1.25 x 1.25 deg :: G	2 levels (18 months after launch); 18 levels (36 months after launch) :: Atmos	FSW parameter 28. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Up, Tuned, Statistics, Atmos Levels, Total_sky	4498	Barkstrom	W/m^2	TBD	1/hr	1.25 x 1.25 deg :: G	2 levels (18 months after launch); 18 levels (36 months after launch) :: Atmos	FSW parameter 29. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Down, Tuned, Statistics, Atmos Levels, Total_sky	4499	Barkstrom	W/m^2	TBD	1/hr	1.25 x 1.25 deg :: G	2 levels (18 months after launch); 18 levels (36 months after launch) :: Atmos	FSW parameter 30. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Up, Tuned, Statistics, Atmos levels, Total_sky	4500	Barkstrom	W/m^2	TBD	1/hr	1.25 x 1.25 deg :: G	2 levels (18 months after launch); 18 levels (36 months after launch) :: Atmos	FSW parameter 31. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Up, Statistics, TOA, Clear_sky	4501	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 32. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Up, Statistics, TOA, Clear_sky	4502	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 33. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Window, Up, Statistics, TOA, Clear_sky	4503	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 34. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW SARB, (Obs-Untuned) Statistics, TOA, Clear_sky	4504	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 35. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW SARB, (Obs-Tuned) Statistics, TOA, Clear_sky	4505	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 36. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW SARB, (Obs-Untuned) Statistics, TOA, Clear_sky	4506	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 37. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW SARB, (Obs-Tuned) Statistics, TOA, Clear_sky	4507	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 38. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Down, Tuned, Statistics, Sfc, Clear_sky	4508	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 39. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Up, Tuned, Statistics, Sfc, Clear_sky	4509	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 40. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Tuned, Down, Statistics, Sfc, Clear_sky	4510	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 41. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Tuned, Up, Statistics, Sfc, Clear_sky	4511	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 42. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Down, (Tuned-Untuned) Statistics, Sfc, Clear_sky	4512	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 43. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Up, (Tuned-Untuned) Statistics, Sfc, Clear_sky	4513	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 44. Statistics include mean, standard deviation and number of obervations.

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CER05	Radiative Flux, LW, Down, (Tuned-Untuned) Statistics, Sfc, Clear_sky	4514	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 45. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Up, (Tuned-Untuned) Statistics, Sfc, Clear_sky	4515	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 46. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Up, Tuned, Statistics, Atmos Levels, Clear_sky	4516	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	lvl :: Atmos	FSW parameter 47. Atmospheric levels are tropopause and 500 hPa. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, SW, Down, Tuned, Statistics, Atmos Levels, Clear_sky	4517	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	lvl :: Atmos	FSW parameter 48. Atmospheric levels are tropopause and 500 hPa. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Tuned, Up, Statistics, Atmos Levels, Clear_sky	4518	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	lvl :: Atmos	FSW parameter 49. Atmospheric levels are tropopause and 500 hPa. Statistics include mean, standard deviation and number of obervations.
CER05	Radiative Flux, LW, Tuned, Down, Statistics, Atmos Levels, Clear_sky	4519	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	lvl :: Atmos	FSW parameter 50. Atmospheric levels are tropopause and 500 hPa. Statistics include mean, standard deviation and number of obervations.
CER05	Cloud Fractional Areas, 11 Cloud Layers	4520	Barkstrom	fraction		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 51. Overlap conditions are clear, low (L), lower middle (LM), upper middle (UM), high (H), H/UM, H/LM, H/L, UM/LM, UM/L and LM/L.
CER05	Cloud Overlap Fractional Areas, Four_Categories	4521	Barkstrom	N/A		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 52. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Area Fraction, Statistics, Overcast, Broken, Total Clouds, Four_Categories	4522	Barkstrom	fraction		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 53. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Pressure, Effective, Statistics, Four_Categories	4523	Barkstrom	h Pa		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 54. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Temperature, Effective, Statistics, Four_Categories	4524	Barkstrom	K		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 55. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Altitude, Effective, Statistics, Four_Categories	4525	Barkstrom	km		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 56. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Pressure, Top, Statistics, Four_Categories	4526	Barkstrom	hPa		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 57. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Pressure, Bottom, Statistics, Four_Categories	4527	Barkstrom	hPa		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 58. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.

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CER05	Cloud Phase, Particle, Statistics, Four_Categories	4528	Barkstrom	fraction		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 59. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Liquid Water Path, Statistics, Four_Categories	4529	Barkstrom	g/m^2		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 60. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Ice Water Path, Statistics, Four_Categories	4530	Barkstrom	g/m^2		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 61. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Liquid Particle Radius, Statistics, Four_Categories	4531	Barkstrom	µm		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 62. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Ice Particle Radius, Statistics, Four_Categories	4532	Barkstrom	µm		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 63. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Optical Depth, Visible, Statistics, Four_Categories	4533	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 64. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Emissivity, IR, Statistics, Four_Categories	4534	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 65. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Aspect Ratio, Vertical, Statistics, Four_Categories	4535	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 66. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Emissivity, IR, Adjusted, Statistics, Four_Categories	4536	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 67. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Area Fraction, Adjusted, Statistics, Four_Categories, Overcast, Broken, Total	4537	Barkstrom	fraction		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 68. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Temperature, Effective, Adjusted, Statistics, Four_Categories	4538	Barkstrom	K		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 69. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Optical Depth, Visible, Adjusted, Statistics, Four_Categories	4539	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 70. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Visible Optical Depth / IR Emissivity (night), Percentiles, Four_Categories	4540	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	lyr :: cloud	FSW parameter 71. Cloud categories are High, Upper Middle, Lower Middle, and Low. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Area Fraction, Weighted Avg Column, Statistics, Overcast, Broken, Total Clouds	4541	Barkstrom	fraction		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 72. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path.

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CER05	Cloud Pressure, Effective, Statistics, Weighted Avg Column	4542	Barkstrom	hPa		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 73. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Temperature, Effective, Statistics, Weighted Avg Column	4543	Barkstrom	K		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 74. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Altitude, Effective, Statistics, Weighted Avg Column	4544	Barkstrom	km		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 75. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Pressure, Top, Statistics, Weighted Avg Column	4545	Barkstrom	hPa		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 76. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Pressure, Bottom, Statistics, Weighted Avg Column	4546	Barkstrom	hPa		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 77. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Phase, Particle, Statistics, Weighted Avg Column	4547	Barkstrom	fraction		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 78. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Liquid Water Path, Statistics, Weighted Avg Column	4548	Barkstrom	g/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 79. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Ice Water Path, Statistics, Weighted Avg Column	4549	Barkstrom	g/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 80. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Liquid Particle Radius, Statistics, Weighted Avg Column	4550	Barkstrom	µm		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 81. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Ice Particle Radius, Statistics, Weighted Avg Column	4551	Barkstrom	µm		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 82. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Optical Depth, Visible, Statistics, Weighted Avg Column	4552	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 83. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.

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CER05	Cloud Emissivity, IR, Statistics, Weighted Avg Column	4553	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 84. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Aspect Ratio, Vertical, Statistics, Weighted Avg Column	4554	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 85. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Emissivity, IR, Adjusted, Statistics, Weighted Avg Column	4555	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 86. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Fractional Area , Adjusted, Statistics, Weighted Avg Column	4556	Barkstrom	fraction		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 87. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Temperature, Effective, Adjusted, Statistics, Weighted Avg Column	4557	Barkstrom	K		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 88. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Optical Depth, Visible, Adjusted, Statistics, Weighted Avg Column	4558	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 89. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Cloud Visible Optical Depth/IR Emissivity, Percentiles, Statistics, Weighted Avg Column	4559	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	N/A :: cloud	FSW parameter 90. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of obs.
CER05	Fractional Area Coverage, Angular Model Scenes	4560	Barkstrom	fraction		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 91. There are 12 Angular Model Scenes.
CER05	Albedo, Statistics, Angular Model Scenes	4561	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 92. There are 12 Angular Model Scenes. Statistics include mean, and standard deviation.
CER05	Radiative Flux, Solar, Incident, Statistics, Angular Model Scenes	4562	Barkstrom	Wh/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 93. There are 12 Angular Model Scenes. Statistics include mean, and standard deviation.
CER05	Radiative Flux, LW, Statistics, Angular Model Scenes	4563	Barkstrom	W/m^2		1/hr	1.25 x 1.25 deg :: G	N/A :: TOA	FSW parameter 94. There are 12 Angular Model Scenes. Statistics include mean, and standard deviation.
CER05	Photosynthetically Active Radiation, Sfc	4564	Barkstrom	W/m^2	10% :: 10%	1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 95.
CER05	Direct/Diffuse Ratio, Sfc	4565	Barkstrom	N/A	10% :: 10%	1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 96.
CER05	Precipitable Water, Adjusted, Statistics, Clear_sky and Total_sky	4566	Barkstrom	cm		1/hr	1.25 x 1.25 deg :: G	N/A :: Atmos	FSW parameter 97, 98. Statistics include mean, and standard deviation.
CER05	Albedo, Sfc, Adjusted, Statistics	4567	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 99. Statistics include mean, and standard deviation.
CER05	Aerosol Optical Depth, Adjusted, Statistics	4568	Barkstrom	dimensionless		1/hr	1.25 x 1.25 deg :: G	N/A :: Atmos	FSW parameter 100. Statistics include mean, and standard deviation.
CER05	Skin Temperature, Adjusted, Statistics, Clear_sky and Total_sky	4569	Barkstrom	K		1/hr	1.25 x 1.25 deg :: G	N/A :: Sfc	FSW parameter 101, 102. Statistics include mean, and standard deviation.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER06	Radiative Flux, SW, Statistics, TOA, Total_sky, Monthly_Avg	4932	Barkstrom	W/m^2	3-5 W/m^2 :: 1 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 4
CER06	Radiative Flux, LW, Statistics, TOA, Total_sky, Monthly_Avg	4933	Barkstrom	W/m^2	1-2 W/m^2 :: 0.5-1 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 5
CER06	Radiative Flux, Window, Statistics, TOA, Total_sky, Monthly_Avg	4934	Barkstrom	W/m^2/sr	1-5% :: 0.5-3%	1/mon	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 6
CER06	Radiative Flux, SW, Down, Statistics, Sfc, Total_sky, Monthly_Avg	4935	Barkstrom	W/m^2	2 W/m^2 :: 1 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 7
CER06	Radiative Flux, LW, Down, Statistics, Sfc, Total_sky, Monthly_Avg	4936	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 8
CER06	Radiative Flux, SW, Net, Statistics, Sfc, Total_sky, Monthly_Avg	4937	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 9
CER06	Radiative Flux, LW, Net, Statistics, Sfc, Total_sky, Monthly_Avg	4938	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 10
CER06	Radiative Flux, SW, Statistics, TOA, Clear_sky, Monthly_Avg	4939	Barkstrom	W/m^2	2 W/m^2 :: 1 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 11
CER06	Radiative Flux, LW, Statistics, TOA, Clear_sky, Monthly_Avg	4940	Barkstrom	W/m^2	1-2 W/m^2 :: 0.5-1 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 12
CER06	Radiative Flux, Window, Statistics, TOA, Clear_sky, Monthly_Avg	4941	Barkstrom	W/m^2/sr	1-5% :: 0.5-3%	1/mon	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 13
CER06	Radiative Flux, SW, Down, Statistics, Sfc, Clear_sky, Monthly_Avg	4942	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 14
CER06	Radiative Flux, LW, Down, Statistics, Sfc, Clear_sky, Monthly_Avg	4943	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 15
CER06	Radiative Flux, SW, Net, Statistics, Sfc, Clear_sky, Monthly_Avg	4944	Barkstrom	W/m^2	3-5 W/m^2 :: 1 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 16
CER06	Radiative Flux, LW, Net, Statistics, Sfc, Clear_sky, Monthly_Avg	4945	Barkstrom	W/m^2	5 W/m^2 :: 1 W/m^2	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 17
CER06	Radiative Flux, SW, Statistics, TOA, Total_sky, Monthly_Hourly_Avg	4946	Barkstrom	W/m^2	3-5 W/m^2 :: 1 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 18
CER06	Radiative Flux, LW, Statistics, TOA, Total_sky, Monthly_Hourly_Avg	4947	Barkstrom	W/m^2	1-2 W/m^2 :: 0.5-1 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 19
CER06	Radiative Flux, Window, Statistics, TOA, Total_sky, Monthly_Hourly_Avg	4948	Barkstrom	W/m^2/sr	1-5% :: 0.5-3%	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 20
CER06	Radiative Flux, SW, Down, Statistics, Sfc, Total_sky, Monthly_Hourly_Avg	4949	Barkstrom	W/m^2	2 W/m^2 :: 1 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 21
CER06	Radiative Flux, LW, Down, Statistics, Sfc, Total_sky, Monthly_Hourly_Avg	4950	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 22
CER06	Radiative Flux, SW, Net, Statistics, Sfc, Total_sky, Monthly_Hourly_Avg	4951	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 23
CER06	Radiative Flux, LW, Net, Statistics, Sfc, Total_sky, Monthly_Hourly_Avg	4952	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 24
CER06	Radiative Flux, SW, Statistics, TOA, Clear_sky, Monthly_Hourly_Avg	4953	Barkstrom	W/m^2	2 W/m^2 :: 1 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 25
CER06	Radiative Flux, LW, Statistics, TOA, Clear_sky, Monthly_Hourly_Avg	4954	Barkstrom	W/m^2	1-2 W/m^2 :: 0.5-1 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 26
CER06	Radiative Flux, Window, Statistics, TOA, Clear_sky, Monthly_Hourly_Avg	4955	Barkstrom	W/m^2/sr	1-5% :: 0.5-3%	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: TOA	SBRAVG parameter 27
CER06	Radiative Flux, SW, Down, Statistics, Sfc, Clear_sky, Monthly_Hourly_Avg	4956	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 28
CER06	Radiative Flux, LW, Down, Statistics, Sfc, Clear_sky, Monthly_Hourly_Avg	4957	Barkstrom	W/m^2	5-10 W/m^2 :: 1-2 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 29
CER06	Radiative Flux, SW, Net, Sfc, Statistics, Clear_sky, Monthly_Hourly_Avg	4958	Barkstrom	W/m^2	3-5 W/m^2 :: 1 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 30
CER06	Radiative Flux, LW, Net, Statistics, Sfc, Clear_sky, Monthly_Hourly_Avg	4959	Barkstrom	W/m^2	5 W/m^2 :: 1 W/m^2	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Sfc	SBRAVG parameter 31
CER06	Cloud Fractional Area, Angular Model Scene, Monthly_Avg	4960	Barkstrom	fraction		1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 32

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CER06	Cloud Albedo Statistics, Angular Model Scene, Monthly_Avg	4961	Barkstrom			1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 33
CER06	Solar Incidence, Statistics, Angular Model Scene, Monthly_Avg	4962	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 34
CER06	Radiative Flux, LW, Statistics, Angular Model Scene, Monthly_Avg	4963	Barkstrom	Wh/m^2		1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 35
CER06	Cloud Fraction Area, Weighted Column, Monthly_Avg	4964	Barkstrom	fraction	2% :: 2%	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 36
CER06	VIS Optical Depth (day)/IR Emissivity (night) percentiles, Weighted Column, Monthly_Avg	4965	Barkstrom	fraction		1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 37
CER06	Cloud Pressure, Effective, Statistics, Weighted Column, Monthly_Avg	4966	Barkstrom	hPa	15 hPa :: 15 hPa	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 38
CER06	Cloud Temperature, Effective, Statistics, Weighted Column, Monthly_Avg	4967	Barkstrom	K		1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 39
CER06	Cloud Altitude, Effective, Statistics, Weighted Column, Monthly_Avg	4968	Barkstrom	km		1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 40
CER06	Cloud Particle Phase, Statistics, Weighted Column, Monthly_Avg	4969	Barkstrom	fraction	3% :: 3%	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 41
CER06	Cloud Pressure, Top, Statistics, Weighted Column, Monthly_Avg	4970	Barkstrom	hPa	15 hPa :: 15 hPa	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 42
CER06	Cloud Pressure, Bottom, Statistics, Weighted Column, Monthly_Avg	4971	Barkstrom	hPa	15 hPa :: 15 hPa	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 43
CER06	Cloud Liquid Water Path, Statistics, Weighted Column, Monthly_Avg	4972	Barkstrom	kg/cm^2		1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter Z44
CER06	Cloud Ice Water Path, Statistics, Weighted Column, Monthly_Avg	4973	Barkstrom	kg/cm^2		1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 45
CER06	Cloud Liquid Particle Size (Radius), Statistics, Weighted Column, Monthly_Avg	4974	Barkstrom	µm	10% :: 5%	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 46
CER06	Cloud Ice Particle Size (Radius), Statistics, Weighted Column, Monthly_Avg	4975	Barkstrom	µm	10% :: 5%	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 47
CER06	Cloud Emissivity, IR, Statistics, Weighted Column, Monthly_Avg	4976	Barkstrom	fraction	2% :: 2%	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 48
CER06	Cloud Aspect Ratio, Vertical, Statistics, Weighted Column, Monthly_Avg	4977	Barkstrom	fraction		1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 49
CER06	Cloud VIS Optical Depth, Statistics, Weighted Column, Monthly_Avg	4978	Barkstrom	dimensionless	10% :: 10%	1/mon	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 50
CER06	Cloud Fraction Area, Angular Model Scene, Monthly_Hourly_Avg	4979	Barkstrom	fraction		24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 51
CER06	Cloud Albedo, Statistics, Angular Model Scene, Monthly_Hourly_Avg	4980	Barkstrom			24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 52
CER06	Solar Incidence, Statistics, Angular Model Scene, Monthly_Hourly_Avg	4981	Barkstrom	N/A		24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 53
CER06	Radiative Flux, LW, Statistics, Angular Model Scene, Monthly_Hourly_Avg	4982	Barkstrom	Wh/m^2		24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 54
CER06	Cloud Cover Statistics, Weighted Column, Monthly_Hourly_Avg	4983	Barkstrom	fraction	2% :: 2%	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 55
CER06	VIS Optical Depth (day)/IR Emissivity (night) percentiles, Weighted Column, Monthly_Hourly_Avg	4984	Barkstrom	fraction		24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 56
CER06	Cloud Pressure, Effective, Statistics, Weighted Column, Monthly_Hourly_Avg	4985	Barkstrom	hPa	15 hPa :: 15 hPa	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 57
CER06	Cloud Temperature, Effective, Statistics, Weighted Column, Monthly_Hourly_Avg	4986	Barkstrom	K		24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 58
CER06	Cloud Altitude, Effective, Statistics, Weighted Column, Monthly_Hourly_Avg	4987	Barkstrom	km		24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 59

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER06	Cloud Particle Phase, Statistics, Weighted Column, Monthly_Hourly_Avg	4988	Barkstrom	fraction	3% :: 3%	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 60
CER06	Cloud Pressure, Top, Statistics, Weighted Column, Monthly_Hourly_Avg	4989	Barkstrom	hPa	15 hPa :: 15 hPa	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 61
CER06	Cloud Pressure, Bottom, Statistics, Weighted Column, Monthly_Hourly_Avg	4990	Barkstrom	hPa	15 hPa :: 15 hPa	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 62
CER06	Cloud Liquid Water Path, Statistics, Weighted Column, Monthly_Hourly_Avg	4991	Barkstrom	kg/cm^2		24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 63
CER06	Cloud Ice Water Path, Statistics, Weighted Column, Monthly_Hourly_Avg	4992	Barkstrom	kg/cm^2		24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 64
CER06	Cloud Liquid Particle Size (Radius), Statistics, Weighted Column, Monthly_Hourly_Avg	4993	Barkstrom	µm	10% :: 5%	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 65
CER06	Cloud Ice Particle Size (Radius), Statistics, Weighted Column, Monthly_Hourly_Avg	4994	Barkstrom	µm	10% :: 5%	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 66
CER06	Cloud Emissivity, IR, Statistics, Weighted Column, Monthly_Hourly_Avg	4995	Barkstrom	fraction	2% :: 2%	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 67
CER06	Cloud Aspect Ratio, Vertical, Statistics, Weighted Column, Monthly_Hourly_Avg	4996	Barkstrom	fraction		24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 68
CER06	Cloud VIS Optical Depth, Statistics, Weighted Column, Monthly_Hourly_Avg	4997	Barkstrom	dimensionless	10% :: 10%	24/mon [1-mon avg for each local-hr of day]	1.25 x 1.25 deg :: G, R	N/A :: Cloud	SBRAVG parameter 69
CER07	Radiative Flux, SW, Statistics, TOA, Clear_sky and Total _sky	4582	Barkstrom	W/m^2		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: Atmos	SYN parameter 9, 10. Statistics include mean, and standard deviation.
CER07	Radiative Flux, LW, Statistics, TOA, Clear_sky and Total _sky	4583	Barkstrom	W/m^2		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: Atmos	SYN parameter 11, 12. Statistics include mean, and standard deviation.
CER07	Radiative Flux, LW, Window, Statistics, TOA, Clear_sky and Total _sky	4584	Barkstrom	W/m^2		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: Atmos	SYN parameter 13, 14. Statistics include mean, and standard deviation.
CER07	Cloud Area Fraction, Overcast, Total, & Broken, Four_Categories	4586	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 16-18. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Optical Depth, Visible, Statistics, Four_Categories	4587	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 19, 20. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Emissivity, IR, Statistics, Four_Categories	4588	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 21, 22. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Liquid Water Path, Statistics, Four_Categories	4589	Barkstrom	g/m^2		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 23, 24. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Ice Water Path, Statistics, Four_Categories	4590	Barkstrom	g/m^2		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 25, 26. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Pressure, Top, Statistics, Four_Categories	4591	Barkstrom	hPa		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 27, 28. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Pressure, Effective, Statistics, Four_Categories	4592	Barkstrom	hPa		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 29, 30. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER07	Cloud Temperature, Effective, Statistics, Four_Categories	4593	Barkstrom	K		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 31, 32. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Height, Effective, Statistics, Four_Categories	4594	Barkstrom	km		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 33, 34. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Pressure, Bottom, Statistics, Four_Categories	4595	Barkstrom	hPa		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 35, 36. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Liquid Particle Radius, Statistics, Four_Categories	4596	Barkstrom	µm		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 37, 38. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Ice Particle Radius, Statistics, Four_Categories	4597	Barkstrom	µm		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 39, 40. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Phase, Particle, Statistics, Four_Categories	4598	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 41. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Aspect Ratio, Vertical, Statistics, Four_Categories	4599	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 42, 43. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Visible Optical Depth/IR Emissivity, Percentiles, Statistics, Four_Categories	4600	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter Z44. The four cloud layers are low, lower middle, upper middle, and high. Statistics include mean and standard deviation.
CER07	Cloud Area Fraction, Overcast, Weighted Avg Column	4601	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 45. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Area Fraction, Total, Weighted Avg Column	4602	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 46. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Area Fraction, Broken, Weighted Avg Column	4603	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 47. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Optical Depth, Visible, Weighted Avg Column	4604	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 48, 49. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Emissivity, IR, Weighted Avg Column	4605	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 50, 51. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Liquid Water Path, Weighted Avg Column	4606	Barkstrom	g/m^2		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 52, 53. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER07	Cloud Ice Water Path, Weighted Avg Column	4607	Barkstrom	g/m^2		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 54, 55. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Pressure, Top, Weighted Avg Column	4608	Barkstrom	hPa		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 56, 57. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Pressure, Effective, Weighted Avg Column	4609	Barkstrom	hPa		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 58, 59. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Temperature, Effective, Weighted Avg Column	4610	Barkstrom	K		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 60, 61. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Height, Effective, Weighted Avg Column	4611	Barkstrom	km		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 62, 63. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Pressure, Bottom, Weighted Avg Column	4612	Barkstrom	hPa		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 64, 65. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Liquid Particle Radius, Weighted Avg Column	4613	Barkstrom	µm		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 66, 67. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Ice Particle Radius, Weighted Avg Column	4614	Barkstrom	µm		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 68, 69. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Phase, Particle, Weighted Avg Column	4615	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 70. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Aspect Ratio, Vertical, Weighted Avg Column	4616	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 71, 72. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Visible Optical Depth/IR Emissivity, Frequency Distribution, Weighted Avg Column	4617	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 73. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean and standard deviation.
CER07	Cloud Fractional Areas, Total	4618	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 74. Overlap conditions are clear, low (L), lower middle (LM), upper middle (UM), high (H), H/UM, H/LM, H/L, UM/LM, UM/L and LM/L.
CER07	Fractional Area Coverage, Angular Model Scenes	4619	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A ::Cloud	SYN parameter 75. There are 12 Angular Model Scene classes.
CER07	Albedo, Statistics, Angular Model Scenes	4620	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: TOA	SYN parameter 76, 77. There are 12 Angular Model Scene classes.
CER07	Solar Flux, Statistics, Incident, Angular Model Scenes	4621	Barkstrom	W/m^2		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: TOA	SYN parameter 78, 79. There are 12 Angular Model Scene classes.
CER07	Radiative Flux, LW, Statistics, Angular Model Scenes	4622	Barkstrom	W/m^2		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: TOA	SYN parameter 80, 81. There are 12 Angular Model Scene classes.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER07	Pressure, Atmospheric Layers	4624	Barkstrom	hPa		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Atmos	SYN parameter 83. Atmospheric layer are surface, 500 hPa, tropopause and TOA.
CER07	Radiative Flux, SW, Up, Atmos. Layers, Clear_sky and Total _sky	4625	Barkstrom	W/m^2	TBD	1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Atmos	SYN parameter 84. Atmospheric layer are surface, 500 hPa, tropopause and TOA.
CER07	Radiative Flux, SW, Down, Atmos. Layers, Clear_sky and Total _sky	4626	Barkstrom	W/m^2	TBD	1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Atmos	SYN parameter 85. Atmospheric layer are surface, 500 hPa, tropopause and TOA.
CER07	Radiative Flux, LW, Up, Atmos. Layers, Clear_sky and Total _sky	4627	Barkstrom	W/m^2	TBD	1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Atmos	SYN parameter 86. Atmospheric layer are surface, 500 hPa, tropopause and TOA.
CER07	Radiative Flux, LW, Down, Atmos. Layers, Clear_sky and Total _sky	4628	Barkstrom	W/m^2	TBD	1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Atmos	SYN parameter 87. Atmospheric layer are surface, 500 hPa, tropopause and TOA.
CER07	Radiative Flux, Adjusted SW, Up, Sfc and TOA, Atmos. Layers, Clear_sky and Total _sky	4629	Barkstrom	W/m^2		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Atmos	SYN parameter 88. Atmospheric layer are surface, 500 hPa, tropopause and TOA.
CER07	Radiative Flux, Adjusted SW, Down, Sfc and TOA, Atmos. Layers, Clear_sky and Total _sky	4630	Barkstrom	W/m^2		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Atmos	SYN parameter 89. Atmospheric layer are surface, 500 hPa, tropopause and TOA.
CER07	Radiative Flux, Adjusted LW, Up, Sfc and TOA, Atmos. Layers, Clear_sky and Total _sky	4631	Barkstrom	W/m^2		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Atmos	SYN parameter 90. Atmospheric layer are surface, 500 hPa, tropopause and TOA.
CER07	Radiative Flux, Adjusted LW, Down, Sfc and TOA, Atmos. Layers, Clear_sky and Total _sky	4632	Barkstrom	W/m^2		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Atmos	SYN parameter 91. Atmospheric layer are surface, 500 hPa, tropopause and TOA.
CER07	Photosynthetically Active Radiation, Sfc	4633	Barkstrom	W/m^2/sr	15% :: 15%	1/(3hr)	1.25 x 1.25 deg :: G	N/A :: Sfc	SYN parameter 92.
CER07	Direct/Diffuse Ratio, Sfc	4634	Barkstrom	N/A	15% :: 15%	1/(3hr)	1.25 x 1.25 deg :: G	N/A :: Sfc	SYN parameter 93.
CER07	Precipitable Water, Adjusted, Clear_Sky	4635	Barkstrom	cm		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: Sfc	SYN parameter 94.
CER07	Albedo, Sfc, Adjusted, Clear_Sky	4636	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: Sfc	SYN parameter 95.
CER07	Aerosol Optical Depth, Adjusted, Clear_Sky	4637	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: Sfc	SYN parameter 96.
CER07	Skin Temperature, Adjusted, Clear_Sky	4638	Barkstrom	K		1/(3hr)	1.25 x 1.25 deg :: G	N/A :: Sfc	SYN parameter 97.
CER07	Optical Depth, Visible, Statistics, Adjusted, Cloud_layers	4639	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 98, 99. The cloud layers are L, LM, UM, and H.
CER07	Cloud Fractional Area, Statistics, Adjusted, Cloud_layers	4640	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 100, 101. The cloud layers are L, LM, UM, and H.
CER07	Cloud Emissivity, IR, Statistics, Adjusted, Cloud_layers	4641	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 102, 103. The cloud layers are L, LM, UM, and H.
CER07	Cloud Temperature, Effective, Statistics, Adjusted, Cloud_layers	4642	Barkstrom	K		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 104, 105. The cloud layers are L, LM, UM, and H.
CER07	Visible Optical Depth/ IR Emissivity, Frequency Distribution, Adjusted, Cloud_layers	4643	Barkstrom	N/A		1/(3hr)	1.25 x 1.25 deg :: G	Lyr :: Cloud	SYN parameter 106. The cloud layers are L, LM, UM, and H.
CER08	Radiative Flux, SW, Statistics, TOA, Clear_sky and Total_sky, Monthly_Avg	4652	Barkstrom	W/m^2	2 W/m^2 :: 1 W/m^2	1/mon	1.25 x 1.25 deg :: G	N/A :: TOA	AVG parameter 6. The statistics include mean, standard deviation, and number of days.
CER08	Radiative Flux, LW, Statistics, TOA, Clear_sky and Total_sky, Monthly_Avg	4653	Barkstrom	W/m^2	1.5 W/m^2 :: 0.7 W/m^2	1/mon	1.25 x 1.25 deg :: G	N/A :: TOA	AVG parameter 7. The statistics include mean, standard deviation, and number of days.
CER08	Radiative Flux, LW, Window, Statistics, TOA, Clear_sky and Total_sky, Monthly_Avg	4654	Barkstrom	W/m^2	1% :: 1%	1/mon	1.25 x 1.25 deg :: G	N/A :: TOA	AVG parameter 8. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Class, Layer, Monthly_Avg	4655	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 9. The cloud layers are H, UM, LM, and L.

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CER08	Cloud Area Fraction, Overcast, Statistics, Four_Layers, Monthly_Avg	4656	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 10. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Area Fraction, Total, Statistics, Four_Layers, Monthly_Avg	4657	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 11. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Area Fraction, Broken, Statistics, Four_Layers, Monthly_Avg	4658	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 12. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Optical Depth, Visible, Statistics, Four_Layers, Monthly_Avg	4659	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 13. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Emissivity, IR, Statistics, Four_Layers, Monthly_Avg	4660	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 14. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Liquid Water Path, Statistics, Four_Layers, Monthly_Avg	4661	Barkstrom	g/m^2		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 15. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Ice Water Path, Statistics, Four_Layers, Monthly_Avg	4662	Barkstrom	g/m^2		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 16. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Pressure, Top, Statistics, Four_Layers, Monthly_Avg	4663	Barkstrom	hPa		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 17. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Pressure, Effective, Statistics, Four_Layers, Monthly_Avg	4664	Barkstrom	hPa		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 18. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Temperature, Effective, Statistics, Four_Layers, Monthly_Avg	4665	Barkstrom	K		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 19. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Height, Effective, Statistics, Four_Layers, Monthly_Avg	4666	Barkstrom	km		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 20. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Pressure, Bottom, Statistics, Four_Layers, Monthly_Avg	4667	Barkstrom	hPa		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 21. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Liquid Particle Radius, Statistics, Four_Layers, Monthly_Avg	4668	Barkstrom	µm		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 22. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Ice Particle Radius, Statistics, Four_Layers, Monthly_Avg	4669	Barkstrom	µm		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 23. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.

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CER08	Cloud Phase, Particle, Statistics, Four_Layers, Monthly_Avg	4670	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 24. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Aspect Ratio, Vertical, Statistics, Four_Layers, Monthly_Avg	4671	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 25. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Temperature, Effective, Statistics Adjusted, Four_Layers, Monthly_Avg	4672	Barkstrom	K		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 26. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Optical Depth, Statistics Adjusted, Four_Layers, Monthly_Avg	4673	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 27. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Fraction Area, Statistics Adjusted, Four_Layers, Monthly_Avg	4674	Barkstrom	%		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 28. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Emissivity, Statistics Adjusted, Four_Layers, Monthly_Avg	4675	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 29. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Optical Depth/ IR Emissivity, Frequency Distribution, Visible, Statistics, Four_Categories, Monthly_Avg	4676	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	Lyr :: Cloud	AVG parameter 30. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER08	Cloud Area Fraction, Overcast, Statistics, Weighted Avg Column, Monthly_Avg	4677	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 31. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Area Fraction, Total, Statistics, Weighted Avg Column, Monthly_Avg	4678	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 32. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Area Fraction, Broken, Statistics, Weighted Avg Column, Monthly_Avg	4679	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 33. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Optical Depth, Visible, Statistics, Weighted Avg Column, Monthly_Avg	4680	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 34. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Emissivity, IR, Weighted Avg Column, Monthly_Avg	4681	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 35. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER08	Cloud Liquid Water Path, Statistics, Weighted Avg Column, Monthly_Avg	4682	Barkstrom	g/m^2		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 36. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Ice Water Path, Statistics, Weighted Avg Column, Monthly_Avg	4683	Barkstrom	g/m^2		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 37. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Pressure, Top, Statistics, Weighted Avg Column, Monthly_Avg	4684	Barkstrom	hPa		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 38. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Pressure, Effective, Statistics, Weighted Avg Column, Monthly_Avg	4685	Barkstrom	hPa		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 39. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Temperature, Effective, Statistics, Weighted Avg Column, Monthly_Avg	4686	Barkstrom	K		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 40. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Height, Effective, Statistics, Weighted Avg Column, Monthly_Avg	4687	Barkstrom	km		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 41. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Pressure, Bottom, Statistics, Weighted Avg Column, Monthly_Avg	4688	Barkstrom	hPa		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 42. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Liquid Particle Radius, Statistics, Weighted Avg Column, Monthly_Avg	4689	Barkstrom	µm		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 43. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Ice Particle Radius, Statistics, Weighted Avg Column, Monthly_Avg	4690	Barkstrom	µm		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter Z44. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Phase, Particle, Statistics, Weighted Avg Column, Monthly_Avg	4691	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 45. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Aspect Ratio, Vertical, Statistics, Weighted Avg Column, Monthly_Avg	4692	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 46. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.

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CER08	Cloud Temperature, Effective, Statistics Adjusted, Weighted Avg Column, Monthly_Avg	4693	Barkstrom	K		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 47. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Optical Depth, Statistics Adjusted, Weighted Avg Column, Monthly_Avg	4694	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 48. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Fraction Area, Statistics Adjusted, Weighted Avg Column, Monthly_Avg	4695	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 49. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Emissivity, IR, Statistics Adjusted, Weighted Avg Column, Monthly_Avg	4696	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 50. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Visible Optical Depth / IR Emissivity , Percentiles, Weighted Avg Column, Monthly_Avg	4697	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 51. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Overlap Area Coverage, Monthly_Avg	4698	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 52. Overlap conditions are clear, low (L), lower middle (LM), upper middle (UM), high (H), H/UM, H/LM, H/L, UM/LM, UM/L and LM/L.
CER08	Cloud Fractional Area Coverage, Angular Model Scenes, Monthly_Avg	4699	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 53. There are 12 Angular Model Scene classes.
CER08	Albedo, Angular Model Scenes, Monthly_Avg	4700	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 54. There are 12 Angular Model Scene classes.
CER08	Radiative Flux, Solar Incident, Angular Model Scenes, Monthly_Avg	4701	Barkstrom	W/m^2		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 55. There are 12 Angular Model Scene classes.
CER08	Radiative Flux, LW, Angular Model Scenes, Monthly_Avg	4702	Barkstrom	W/m^2		1/mon	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 56. There are 12 Angular Model Scene classes.
CER08	Radiative Flux, SW, Up, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_Avg	4703	Barkstrom	W/m^2	TBD	1/mon	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 57. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, SW, Down, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_Avg	4704	Barkstrom	W/m^2	TBD	1/mon	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 58. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Up, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_Avg	4705	Barkstrom	W/m^2	TBD	1/mon	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 59. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Down, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_Avg	4706	Barkstrom	W/m^2	TBD	1/mon	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 60. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Pressure, Atmospheric Layer, Monthly_Avg	4708	Barkstrom	hPa		1/mon	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 62. Atmospheric layers are surface, 500 hPa, tropopause, TOA.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER08	Radiative Flux, SW, Up, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_Avg	4709	Barkstrom	W/m^2		1/mon	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 63. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, SW, Down, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_Avg	4710	Barkstrom	W/m^2		1/mon	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 64. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Up, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_Avg	4711	Barkstrom	W/m^2		1/mon	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 65. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Down, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_Avg	4712	Barkstrom	W/m^2		1/mon	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 66. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Photosythetically Active Radiation, Sfc, Monthly_Avg	4713	Barkstrom	W/m^2		1/mon	1.25 x 1.25 deg :: G	N/A :: Sfc	AVG parameter 67.
CER08	Direct/Diffuse Ratio, Sfc, Monthly_Avg	4714	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Sfc	AVG parameter 68.
CER08	Precipitable Water, Adjusted, Monthly_Avg	4715	Barkstrom	cm		1/mon	1.25 x 1.25 deg :: G	N/A :: Atmos	AVG parameter 69.
CER08	Albedo, Surface, Adjusted, Monthly_Avg	4716	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Atmos	AVG parameter 70.
CER08	Aerosol Optical Depth, Adjusted, Monthly_Avg	4717	Barkstrom	N/A		1/mon	1.25 x 1.25 deg :: G	N/A :: Atmos	AVG parameter 71.
CER08	Skin Temperature, Adjusted, Monthly_Avg	4718	Barkstrom	K		1/mon	1.25 x 1.25 deg :: G	N/A :: Sfc	AVG parameter 72.
CER08	Radiative Flux, SW, Statistics, TOA, Clear_sky and Total_sky, Monthly_3-Hourly_Avg	4719	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: TOA	AVG parameter 73. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Statistics, TOA, Clear_sky and Total_sky, Monthly_3-Hourly_Avg	4720	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: TOA	AVG parameter 74. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Window, Statistics, TOA, Clear_sky and Total_sky, Monthly_3 Hourly_Avg	4721	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: TOA	AVG parameter 75. Statistics include mean, standard deviation and number of obervations.
CER08	Cloud Area Fraction, Overcast, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4722	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 76. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Area Fraction, Total, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4723	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 77. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Area Fraction, Broken, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4724	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 78. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Optical Depth, Visible, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4725	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 79. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER08	Cloud Emissivity, IR, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4726	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 80. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Liquid Water Path, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4727	Barkstrom	g/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 81. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Ice Water Path, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4728	Barkstrom	g/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 82. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Pressure, Top, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4729	Barkstrom	hPa		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 83. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Pressure, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4730	Barkstrom	hPa		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 84. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Temperature, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4731	Barkstrom	K		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 85. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Height, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4732	Barkstrom	km		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 86. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Pressure, Bottom, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4733	Barkstrom	hPa		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 87. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Liquid Particle Radius, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4734	Barkstrom	µm		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 88. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Ice Particle Radius, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4735	Barkstrom	µm		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 89. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Phase, Particle, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4736	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 90. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER08	Cloud Aspect Ratio, Vertical, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4737	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 91. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Temperature, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg, Adjusted	4738	Barkstrom	K		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 92. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Optical Depth, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg Adjusted	4739	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 93. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Emissivity, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg Adjusted	4740	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 94. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Fraction Area, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg Adjusted	4741	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 95. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Cloud Visible Optical Depth/IR Emissivity, Percentiles, Statistics, Weighted Avg Column, Monthly_3-Hourly_Avg	4742	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Cloud	AVG parameter 96. The five weightings are TOA SW, TOA LW, SFC LW, LWP, and IWP. The statistics include mean, standard deviation, and number of days.
CER08	Fractional Area Coverage, Statistics, Angular Model Scenes, Monthly_3-Hourly_Avg	4743	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Atmos	AVG parameter 97. There are 12 Angular Model Scene classes.
CER08	Albedo, Statistics, Angular Model Scenes, Monthly_3-Hourly_Avg	4744	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Atmos	AVG parameter 98. There are 12 Angular Model Scene classes.
CER08	Radiative Flux, Solar, Incident, Statistics, Angular Model Scenes, Monthly_3-Hourly_Avg	4745	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Sfc	AVG parameter 99. There are 12 Angular Model Scene classes.
CER08	Radiative Flux, LW, Statistics, Angular Model Scenes, Monthly_3-Hourly_Avg	4746	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Atmos	AVG parameter 100. There are 12 Angular Model Scene classes.
CER08	Radiative Flux, SW, Up, Atmos Layer, Statistics, Total_sky & Clear_sky, Monthly_3-Hourly_Avg	4747	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 101. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, SW, Down, Atmos Layer, Statistics, Total_sky & Clear_sky, Monthly_3-Hourly_Avg	4748	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 102. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Up, Atmos Layer, Statistics, Total_sky & Clear_sky, Monthly_3-Hourly_Avg	4749	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 103. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Down, Atmos Layer, Statistics, Total_sky & Clear_sky, Monthly_3-Hourly_Avg	4750	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 104. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.

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CER08	Pressure, Atmospheric Layer, Monthly_3-Hourly_Avg	4752	Barkstrom	hPa		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 106. Atmospheric layers are surface, 500 hPa, tropopause, TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, SW, Up, Adjusted, Atmos Layer, Statistics, Total_sky & Clear_sky, Monthly_3-Hourly_Avg	4753	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 107. Atmospheric layers are surface, and TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, SW, Down, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_3-Hourly_Avg	4754	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 108. Atmospheric layers are surface, and TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Up, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_3-Hourly_Avg	4755	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 109. Atmospheric layers are surface, and TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Radiative Flux, LW, Down, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_3-Hourly_Avg	4756	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	Lyr :: Atmos	AVG parameter 110. Atmospheric layers are surface, and TOA. Statistics include mean, standard deviation and number of obervations.
CER08	Photosythetically Active Radiation, Sfc, Monthly_3-Hourly_Avg	4757	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Sfc	AVG parameter 111.
CER08	Direct/Diffuse Ratio, Sfc, Monthly_3-Hourly_Avg	4758	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Sfc	AVG parameter 112.
CER08	Precipitable Water, Adjusted, Monthly_3-Hourly_Avg	4759	Barkstrom	cm		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Atmos	AVG parameter 113.
CER08	Albedo, Adjusted, Monthly_3-Hourly_Avg	4760	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Atmos	AVG parameter 114.
CER08	Aerosol Optical Depth, Adjusted, Monthly_3-Hourly_Avg	4761	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Atmos	AVG parameter 115.
CER08	Skin Temperature, Adjusted, Monthly_3-Hourly_Avg	4762	Barkstrom	K		8/mon [1-mon avg for each 3-hr of day]	1.25 x 1.25 deg :: G	N/A :: Sfc	AVG parameter 116.
CER09	Level 1B Radiance, SW_filtered, CERES	4006	Barkstrom	W/m^2/sr	2% :: 0.5%	1/hr	25 km :: G	N/A :: N/A	IES parameter 19. IES frequency 1/hr.
CER09	Level 1B Radiance, Total_filtered, CERES	4007	Barkstrom	W/m^2/sr	1 - 2% :: 0.5%	1/hr	25 km :: G	N/A :: N/A	IES parameter 18. IES frequency 1/hr.
CER09	Level 1B Radiance, Window_filtered, CERES	4008	Barkstrom	W/m^2/sr	1 - 2% :: 0.5%	1/hr	25 km :: G	N/A :: N/A	IES parameter 20. IES frequency 1/hr.
CER11	Radiance, Total, Filtered	4235	Barkstrom	W/m^2/sr		2/day	25 km :: G	N/A :: TOA	SSF Parameter 31
CER11	Radiance, SW, Filtered	4236	Barkstrom	W/m^2/sr		2/day	25 km :: G	N/A :: TOA	SSF Parameter 32
CER11	Radiance, Window, Filtered	4237	Barkstrom	W/m^2/sr		2/day	25 km :: G	N/A :: TOA	SSF Parameter 33
CER11	Radiance, SW, TOA	4239	Barkstrom	W/m^2/sr	2% :: 0.5%	2/day	25 km :: G	N/A :: TOA	SSF Parameter 37
CER11	Radiance, LW, TOA	4240	Barkstrom	W/m^2/sr	1% :: 0.5%	2/day	25 km :: G	N/A :: TOA	SSF Parameter 38
CER11	Radiance, Window, TOA	4241	Barkstrom	W/m^2/sr	1% :: 0.5%	2/day	25 km :: G	N/A :: TOA	SSF Parameter 39
CER11	Radiative Flux, SW, TOA	4242	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	2/day	25 km :: G	N/A :: TOA	SSF Parameter 40
CER11	Radiative Flux, LW, TOA	4243	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	2/day	25 km :: G	N/A :: TOA	SSF Parameter 41
CER11	Radiative Flux, Window, TOA	4244	Barkstrom	W/m^2	3 W/m^2 :: 3 W/m^2	2/day	25 km :: G	N/A :: TOA	SSF Parameter 42
CER11	Radiative Flux, SW, Down, Sfc	4245	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	2/day	25 km :: G	N/A :: Sfc	SSF Parameter 43
CER11	Radiative Flux, LW, Down, Sfc	4246	Barkstrom	W/m^2	15 W/m^2 :: 15 W/m^2	2/day	25 km :: G	N/A :: Sfc	SSF Parameter 44
CER11	Radiative Flux, SW, Net, Sfc	4247	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	2/day	25 km :: G	N/A :: Sfc	SSF Parameter 45
CER11	Radiative Flux, LW, Net, Sfc	4248	Barkstrom	W/m^2	15 W/m^2 :: 15 W/m^2	2/day	25 km :: G	N/A :: Sfc	SSF Parameter 46
CER11	Emissivity, Sfc,Clear_sky	4249	Barkstrom	fraction	10% :: 10%	2/day	25 km :: G	N/A :: Sfc	SSF Parameter 47
CER11	Radiance, Photosynthesis, Sfc	4250	Barkstrom	W/m^2/sr	10% :: 10%	2/day	25 km :: G	N/A :: Sfc	SSF Parameter 48
CER11	Direct/Diffuse Ratio, Broadband SW Downwelling, Sfc	4251	Barkstrom	dimensionless	10% :: 10%	2/day	25 km :: G	N/A :: Sfc	SSF Parameter 49

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER11	Imager Radiance, Statistics, CERES FOV	4253	Barkstrom	W/m^2/sr/µm		2/day	25 km :: G	N/A :: TOA	SSF Parameter 52-53, 56 - 64, Statistics (mean, number, 5th & 95th percentile of 0.6, 3.7, 11 um imager radiances), If Number are same for all statistics , it can just record once.
CER11	Bidirectional Reflectance / Brightness Temperature	4254	Barkstrom	TBD		2/day	25 km :: G	N/A :: Sfc	SSF Parameter 54
CER11	Precipitable Water Vapor	4255	Barkstrom	kg/m^2		2/day	25 km :: G	N/A :: TOA	SSF Parameter 55
CER11	Imager Radiance, Statistics, Clear_sky	4257	Barkstrom	W/m^2/sr/µm		2/day	25 km :: G	N/A :: TOA	SSF Parameter 75 - 80. Stats (mean, number, 5th & 95th percentile of 0.6, 3.7, 11 µm imager radiances), If Number are same for all statistics , it can just record once.
CER11	Aerosol Optical Depth, Visible, Clear_sky, Stratosphere	4258	Barkstrom	NA		2/day	25 km :: G	N/A :: Stratosphere	SSF Parameter 81
CER11	Aerosol Effective Radius, Clear_sky, Stratosphere	4259	Barkstrom	mm		2/day	25 km :: G	N/A :: Stratosphere	SSF Parameter 82
CER11	Aerosol Optical Depth, Visible, Clear_sky, Total	4260	Barkstrom	NA		2/day	25 km :: G	N/A :: Atmos	SSF Parameter 83
CER11	Aerosol Effective Radius, Clear_sky, Total	4261	Barkstrom	mm		2/day	25 km :: G	N/A :: Atmos	SSF Parameter 84
CER11	Cloud Cover, Class	4264	Barkstrom	fraction	5% :: 5%	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 87, 89
CER11	Cloud Cover, Overcast Pixels, Class	4265	Barkstrom	fraction	5% :: 5%	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 88
CER11	Cloud Imager Radiance Statistics	4266	Barkstrom	W/m^2/sr/µm		2/day	25 km :: G	N/A :: TOA	SSF Parameter 90 - 95
CER11	Cloud Optical Depth, Visible, Class & Statistics	4267	Barkstrom	NA	25% :: 25%	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 96 - 97
CER11	Cloud Emissivity,IR Window, Class & Statistics	4268	Barkstrom	fraction	5% :: 5%	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 98 - 99
CER11	Cloud Liquid Water Path, Total Column, Class & Statistics	4269	Barkstrom	kg/m^2	25% :: 25%	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 100 - 101
CER11	Cloud Ice Water Path, Total Column, Class & Statistics	4270	Barkstrom	kg/m^2	25% :: 25%	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 102 - 103
CER11	Cloud Pressure, Top, Class & Statistics	4271	Barkstrom	hPa	30 hPa :: 30 hPa	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 104 - 105
CER11	Cloud Pressure, Effective, Statistics, Class	4272	Barkstrom	hPa		2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 106 - 107
CER11	Cloud Temperature, Effective, Class & Statistics	4273	Barkstrom	K	3 K :: 3 K	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 108 - 109
CER11	Cloud Height, Effective, Statistics, Class	4274	Barkstrom	km		2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 110 - 111
CER11	Cloud Pressure, Base, Class & Statistics	4275	Barkstrom	hPa	60 hPa :: 60 hPa	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 112 - 113
CER11	Cloud Water Drop Size (Radius), Class & Statistics	4276	Barkstrom	mm	20% :: 10%	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 114 - 115, Statistics (mean, STD, Number). If Number are same for all statistics , it can just record once.
CER11	Cloud Ice Drop Size (Radius), Class & Statistics	4277	Barkstrom	mm	20% :: 10%	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 116 - 117
CER11	Cloud Drop Phase, Class	4278	Barkstrom	fraction	10% :: 10%	2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 118 - 119
CER11	Cloud Aspect Ratio, Statistics, Class	4279	Barkstrom			2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 120 - 121
CER11	Optical Depth / IR Emissivity Percent, Cloud Class (Category)	4280	Barkstrom	dimensionless		2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 122
CER11	Fraction Area, Cloud Overlap	4282	Barkstrom	fraction		2/day	25 km :: G	N/A :: Cloud Layer	SSF Parameter 124
CER12	Radiative Flux, Statistics, SW, Up, TOA, Total_sky	4892	Barkstrom	W/m^2	5-10 W/m^2 :: 5-10 W/m^2	1/hr	1.25 deg :: G	N/A :: TOA	SFC parameter 12
CER12	Radiative Flux, Statistics, LW, Up, TOA, Total_sky	4893	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	1.25 deg :: G	N/A :: TOA	SFC parameter 13
CER12	Radiative Flux, Statistics, LW window, Up, TOA, Total_sky	4894	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	1.25 deg :: G	N/A :: TOA	SFC parameter 14
CER12	Radiative Flux, Statistics, SW, Net , Sfc, Total_sky	4895	Barkstrom	W/m^2	5-10 W/m^2 :: 5-10 W/m^2	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 15

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER12	Radiative Flux, Statistics, SW, Down , Sfc, Total_sky	4896	Barkstrom	W/m^2	5-10 W/m^2 :: 5-10 W/m^2	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 16
CER12	Radiative Flux, Statistics, LW, Net, Sfc, Total_sky	4897	Barkstrom	W/m^2	10-15 W/m^2 :: 10-15 W/m^2	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 17
CER12	Radiative Flux, Statistics, LW, Down, Sfc, Total_sky	4898	Barkstrom	W/m^2	10-15 W/m^2 :: 10-15 W/m^2	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 18
CER12	Radiative Flux, Statistics, SW, Up, TOA, Clear_sky	4899	Barkstrom	W/m^2	5-10 W/m^2 :: 5-10 W/m^2	1/hr	1.25 deg :: G	N/A :: TOA	SFC parameter 19
CER12	Radiative Flux, Statistics, LW, Up, TOA, Clear_sky	4900	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	1.25 deg :: G	N/A :: TOA	SFC parameter 20
CER12	Radiative Flux, Statistics, LW window, Up, TOA, Clear_sky	4901	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/hr	1.25 deg :: G	N/A :: TOA	SFC parameter 21
CER12	Radiative Flux, Statistics, SW, Net, Sfc, Clear_sky	4902	Barkstrom	W/m^2	5-10 W/m^2 :: 5-10 W/m^2	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 22
CER12	Radiative Flux, Statistics, SW, Down, Sfc, Clear_sky	4903	Barkstrom	W/m^2	5-10 W/m^2 :: 5-10 W/m^2	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 23
CER12	Radiative Flux, Statistics, LW, Net, Sfc, Clear_sky	4904	Barkstrom	W/m^2	10-15 W/m^2 :: 10-15 W/m^2	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 24
CER12	Radiative Flux, Statistics, LW, Down, Sfc, Clear_sky	4905	Barkstrom	W/m^2	10-15 W/m^2 :: 10-15 W/m^2	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 25
CER12	Cloud Fraction Area, Weighted Column	4906	Barkstrom	fraction	2% :: 2%	1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 26
CER12	Cloud Pressure, Effective, Statistics, Weighted Column	4907	Barkstrom	hPa	15 hPa :: 15 hPa	1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 27
CER12	Cloud Temperature, Effective, Statistics, Weighted Column	4908	Barkstrom	K		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 28
CER12	Cloud Altitude, Effective, Statistics, Weighted Column	4909	Barkstrom	km		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 29
CER12	Cloud Pressure, Top, Statistics, Weighted Column	4910	Barkstrom	hPa	15 hPa :: 15 hPa	1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 30
CER12	Cloud Pressure, Bottom, Statistics, Weighted Column	4911	Barkstrom	hPa	15 hPa :: 15 hPa	1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 31
CER12	Cloud Particle Phase, Statistics, Weighted Column	4912	Barkstrom	fraction	3% :: 3%	1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 32
CER12	Cloud Liquid Water Path, Statistics, Weighted Column	4913	Barkstrom	kg cm^2		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 33
CER12	Cloud Ice Water Path, Statistics, Weighted Column	4914	Barkstrom	kg/cm^2		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 34
CER12	Cloud Liquid Particle Size (Radius), Statistics, Weighted Column	4915	Barkstrom	µm	10% :: 5%	1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 35
CER12	Cloud Ice Particle Size (Radius), Statistics, Weighted Column	4916	Barkstrom	µm	10% :: 5%	1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 36
CER12	Cloud Visible Optical Depth, Statistics, Weighted Column	4917	Barkstrom	dimensionless	10% :: 10%	1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 37
CER12	Cloud Emissivity, IR, Statistics, Weighted Column	4918	Barkstrom	fraction	2% :: 2%	1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 38
CER12	Cloud Vertical Aspect Ratio, Statistics, Weighted Column	4919	Barkstrom	dimensionless		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 39
CER12	VIS Optical Depth (day)/IR Emissivity (night) percentiles, Weighted Column	4920	Barkstrom	dimensionless		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 40
CER12	Cloud Fractional Area, Angular Model Scene	4921	Barkstrom	fraction		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 41
CER12	Albedo Statistcs, Angular Model Scene	4922	Barkstrom	dimensionless		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 42
CER12	Solar Incidence, Statistics, Angular Model Scene	4923	Barkstrom	Wh/m^2		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 43
CER12	Radiative Flux, LW, Statistics, Angular Model Scene	4924	Barkstrom	W/m^2		1/hr	1.25 deg :: G	N/A :: Cloud	SFC parameter 44
CER12	Photosynthetically Active Radiation, Sfc	4925	Barkstrom	W/m^2/sr	10% :: 10%	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 45
CER12	Direct/Diffuse Ratio, Sfc	4926	Barkstrom	dimensionless	10% :: 10%	1/hr	1.25 deg :: G	N/A :: Sfc	SFC parameter 46

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER13	Solar Incidence, Monthly_Avg_Day	4111	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 1
CER13	Radiative Flux, Net, Monthly_Avg_Day	4112	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 2
CER13	Radiative Flux, Net, Clear_sky, Monthly_Avg_Day	4113	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 3
CER13	Solar Incidence, Clear_sky, Monthly_Avg_Day	4114	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 4
CER13	Radiative Flux, Net, Monthly_Avg_Hour	4115	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 5
CER13	Solar Incidence, Monthly_Avg_Hour	4116	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 6
CER13	Radiative Flux, Net, Clear_sky, Monthly_Avg_Hour	4117	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 7
CER13	Solar Incidence, Clear_sky, Monthly_Avg_Hour	4118	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 8
CER13	Solar Incidence, Daily	4119	Barkstrom	Wh/m^2		1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 9
CER13	Solar Incidence, Monthly_Avg_Hour	4120	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 10
CER13	Solar Incidence, Clear_sky, Monthly_Avg_Hour	4121	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 11
CER13	Radiative Flux, LW, Monthly_Avg_Day	4123	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 15
CER13	Radiative Flux, SW, Monthly_Avg_Day	4124	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 16
CER13	Albedo, Monthly_Avg_Day	4125	Barkstrom	N/A	1% :: 1%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 17
CER13	Radiative Flux, LW, Clear_sky, Monthly_Avg_Day	4126	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 18
CER13	Radiative Flux, SW, Clear_sky, Monthly_Avg_Day	4127	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 19
CER13	Albedo, Clear_sky, Monthly_Avg_Day	4128	Barkstrom	N/A	1% :: 1%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 20
CER13	Radiative Flux, SW, Down, Sfc, Monthly_Avg_Day	4129	Barkstrom	Wh/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 21
CER13	Radiative Flux, SW, Net, Sfc, Monthly_Avg_Day	4130	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 22
CER13	Radiative Flux, LW, Down, Sfc, Monthly_Avg_Day	4131	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 23
CER13	Radiative Flux, LW, Net, Sfc, Monthly_Avg_Day	4132	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 24
CER13	Water Vapor, Sfc, Monthly_Avg_Day	4133	Barkstrom	cm	1-2 % :: 0.5%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 25
CER13	Radiative Flux, LW, Monthly_Avg_Hour	4134	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 26
CER13	Radiative Flux, SW, Monthly_Avg_Hour	4135	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 27
CER13	Albedo, Monthly_Avg_Hour	4136	Barkstrom	N/A	1% :: 1%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 28
CER13	Radiative Flux, LW, Clear_sky, Monthly_Avg_Hour	4137	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 29
CER13	Radiative Flux, SW, Clear_sky, Monthly_Avg_Hour	4138	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 30
CER13	Albedo, Clear_sky, Monthly_Avg_Hour	4139	Barkstrom	N/A	1% :: 1%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 31
CER13	Radiative Flux, SW, Down, Sfc, Monthly_Avg_Hour	4140	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 32

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER13	Radiative Flux, SW, Net, Sfc, Monthly_Avg_Hour	4141	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 33
CER13	Radiative Flux, LW, Down, Sfc, Monthly_Avg_Hour	4142	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 34
CER13	Radiative Flux, LW, Net, Sfc, Monthly_Avg_Hour	4143	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 35
CER13	Water Vapor, Sfc, Monthly_Avg_Hour	4144	Barkstrom	cm	1-2 % :: 0.5%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 36
CER13	Radiative Flux, LW, Daily_Avg	4145	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 37
CER13	Radiative Flux, SW, Daily_Avg	4146	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 38
CER13	Albedo, Daily_Avg	4147	Barkstrom	N/A	1% :: 1%	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 39
CER13	Radiative Flux, LW, Clear_sky, Daily_Avg	4148	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 40
CER13	Radiative Flux, SW, Clear_sky, Daily_Avg	4149	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 41
CER13	Albedo, Clear_sky, Daily_Avg	4150	Barkstrom	N/A	1% :: 1%	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 42
CER13	Radiative Flux, SW, Down, Sfc, Daily_Avg	4151	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 43
CER13	Radiative Flux, SW, Net, Sfc, Daily_Avg	4152	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 44
CER13	Radiative Flux, LW, Down, Sfc, Daily_Avg	4153	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 45
CER13	Radiative Flux, LW, Net, Sfc, Daily_Avg	4154	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 46
CER13	Water Vapor, Sfc, Daily_Avg	4155	Barkstrom	cm	1-2 % :: 0.5%	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 47
CER13	Radiative Flux, LW, Monthly_Hourly_Avg	4156	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 48
CER13	Radiative Flux, SW, Monthly_Hourly_Avg	4157	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 49
CER13	Albedo, Monthly_Hourly_Avg	4158	Barkstrom	N/A	1% :: 1%	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 50
CER13	Radiative Flux, LW, Clear_sky, Monthly_Hourly_Avg	4159	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 51
CER13	Radiative Flux, SW, Clear_sky, Monthly_Hourly_Avg	4160	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 52
CER13	Albedo, Clear_sky, Monthly_Hourly_Avg	4161	Barkstrom	N/A	1% :: 1%	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4 parameter 53
CER13	Radiative Flux, SW, Down, Sfc, Monthly_Hourly_Avg	4162	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 54
CER13	Radiative Flux, SW, Net, Sfc, Monthly_Hourly_Avg	4163	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 55
CER13	Radiative Flux, LW, Down, Sfc, Monthly_Hourly_Avg	4164	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 56
CER13	Radiative Flux, LW, Net, Sfc, Monthly_Hourly_Avg	4165	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 57
CER13	Water Vapor, Sfc, Monthly_Hourly_Avg	4166	Barkstrom	cm	1-2 % :: 0.5%	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4 parameter 58
CER14	Solar Incidence, Monthly_Avg_Day	4171	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 1
CER14	Radiative Flux, Net, Monthly_Avg_Day	4172	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 2
CER14	Radiative Flux, Net, Clear_sky, Monthly_Avg_Day	4173	Barkstrom	Wh/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 3

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER14	Solar Incidence, Clear_sky, Monthly_Avg_Day	4174	Barkstrom	Wh/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 4
CER14	Radiative Flux, Net, Monthly_Avg_Hour	4175	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 5
CER14	Solar Incidence, Monthly_Avg_Hour	4176	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 6
CER14	Radiative Flux, Net, Clear_sky, Monthly_Avg_Hour	4177	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 7
CER14	Solar Incidence, Clear_sky, Monthly_Avg_Hour	4178	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 8
CER14	Solar Incidence, Daily	4179	Barkstrom	Wh/m^2		1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 9
CER14	Solar Incidence, Monthly_Avg_Hour	4180	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 10
CER14	Solar Incidence, Clear_sky, Monthly_Avg_Hour	4181	Barkstrom	Wh/m^2		1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 11
CER14	Radiative Flux, LW, Monthly_Avg_Day	4182	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 12
CER14	Radiative Flux, SW, Monthly_Avg_Day	4183	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 13
CER14	Albedo, Monthly_Avg_Day	4184	Barkstrom	N/A	1% :: 1%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 14
CER14	Radiative Flux, LW, Clear_sky, Monthly_Avg_Day	4185	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 15
CER14	Radiative Flux, SW, Clear_sky, Monthly_Avg_Day	4186	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 16
CER14	Albedo, Clear_sky, Monthly_Avg_Day	4187	Barkstrom	N/A	1% :: 1%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 17
CER14	Radiative Flux, SW, Down, Sfc, Monthly_Avg_Day	4188	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 18
CER14	Radiative Flux, SW, Net, Sfc, Monthly_Avg_Day	4189	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 19
CER14	Radiative Flux, LW, Down, Sfc, Monthly_Avg_Day	4190	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 20
CER14	Radiative Flux, LW, Net, Sfc, Monthly_Avg_Day	4191	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 21
CER14	Water Vapor, Sfc, Monthly_Avg_Day	4192	Barkstrom	cm	1-2 % :: 0.5%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 22
CER14	Radiative Flux, LW, Monthly_Avg_Hour	4193	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 23
CER14	Radiative Flux, SW, Monthly_Avg_Hour	4194	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 24
CER14	Albedo, Monthly_Avg_Hour	4195	Barkstrom	N/A	1% :: 1%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 25
CER14	Radiative Flux, LW, Clear_sky, Monthly_Avg_Hour	4196	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 26
CER14	Radiative Flux, SW, Clear_sky, Monthly_Avg_Hour	4197	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 27
CER14	Albedo, Clear_sky, Monthly_Avg_Hour	4198	Barkstrom	N/A	1% :: 1%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 28
CER14	Radiative Flux, SW, Down, Sfc, Monthly_Avg_Hour	4199	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 29
CER14	Radiative Flux, SW, Net, Sfc, Monthly_Avg_Hour	4200	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 30
CER14	Radiative Flux, LW, Down, Sfc, Monthly_Avg_Hour	4201	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 31
CER14	Radiative Flux, LW, Net, Sfc, Monthly_Avg_Hour	4202	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 32

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER14	Water Vapor, Sfc, Monthly_Avg_Hour	4203	Barkstrom	cm	1-2 % :: 0.5%	1/mon	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 33
CER14	Radiative Flux, LW, Daily_Avg	4204	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 34
CER14	Radiative Flux, SW, Daily_Avg	4205	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 35
CER14	Albedo, Daily_Avg	4206	Barkstrom	N/A	1% :: 1%	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 36
CER14	Radiative Flux, LW, Clear_sky, Daily_Avg	4207	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 37
CER14	Radiative Flux, SW, Clear_sky, Daily_Avg	4208	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 38
CER14	Albedo, Clear_sky, Daily_Avg	4209	Barkstrom	N/A	1% :: 1%	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 39
CER14	Radiative Flux, SW, Down, Sfc, Daily_Avg	4210	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 40
CER14	Radiative Flux, SW, Net, Sfc, Daily_Avg	4211	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 41
CER14	Radiative Flux, LW, Down, Sfc, Daily_Avg	4212	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 42
CER14	Radiative Flux, LW, Net, Sfc, Daily_Avg	4213	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 43
CER14	Water Vapor, Sfc, Daily_Avg	4214	Barkstrom	cm	1-2 % :: 0.5%	1/day	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 44
CER14	Radiative Flux, LW, Monthly_Hourly_Avg	4215	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 45
CER14	Radiative Flux, SW, Monthly_Hourly_Avg	4216	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 46
CER14	Albedo, Monthly_Hourly_Avg	4217	Barkstrom	N/A	1% :: 1%	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 47
CER14	Radiative Flux, LW, Clear_sky, Monthly_Hourly_Avg	4218	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 48
CER14	Radiative Flux, SW, Clear_sky, Monthly_Hourly_Avg	4219	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 49
CER14	Albedo, Clear_sky, Monthly_Hourly_Avg	4220	Barkstrom	N/A	1% :: 1%	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: TOA	ES-4G parameter 50
CER14	Radiative Flux, SW, Down, Sfc, Monthly_Hourly_Avg	4221	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 51
CER14	Radiative Flux, SW, Net, Sfc, Monthly_Hourly_Avg	4222	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 52
CER14	Radiative Flux, LW, Down, Sfc, Monthly_Hourly_Avg	4223	Barkstrom	W/m^2	5 W/m^2 :: 5 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 53
CER14	Radiative Flux, LW, Net, Sfc, Monthly_Hourly_Avg	4224	Barkstrom	W/m^2	10 W/m^2 :: 10 W/m^2	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 54
CER14	Water Vapor, Sfc, Monthly_Hourly_Avg	4225	Barkstrom	cm	1-2 % :: 0.5%	24/mon [1-mon avg for each local-hr of day]	2.5, 5, 10 deg; 2.5, 5, 10 deg (Zonal) :: G	N/A :: Sfc	ES-4G parameter 55
CER15	Radiative Flux, SW, Statistics, TOA, Clear_sky and Total_sky, Monthly Zonal & Global	4772	Barkstrom	W/m^2		1/mon	2.5 deg :: G	N/A :: TOA	ZAVG parameter 6. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, LW, Statistics, TOA, Clear_sky and Total_sky, Monthly Zonal & Global	4773	Barkstrom	W/m^2		1/mon	2.5 deg :: G	N/A :: TOA	ZAVG parameter 7, 8. The statistics include mean, standard deviation, and number of days.
CER15	Cloud Area Fraction, Overcast, Statistics, Four_Layers, Monthly, Zonal & Global Avg.	4775	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 10. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER15	Cloud Area Fraction, Total, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4776	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 11. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Area Fraction, Broken, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4777	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 12. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Optical Depth, Visible, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4778	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 13. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Emissivity, IR, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4779	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 14. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Liquid Water Path, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4780	Barkstrom	g/m^2		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 15. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Ice Water Path, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4781	Barkstrom	g/m^2		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 16. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Pressure, Top, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4782	Barkstrom	hPa		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 17. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Pressure, Effective, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4783	Barkstrom	hPa		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 18. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Temperature, Effective, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4784	Barkstrom	K		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 19. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Height, Effective, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4785	Barkstrom	km		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 20. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Pressure, Bottom, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4786	Barkstrom	hPa		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 21. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Liquid Particle Radius, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4787	Barkstrom	µm		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 22. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Ice Particle Radius, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4788	Barkstrom	µm		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 23. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Phase, Particle, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4789	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 24. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER15	Cloud Aspect Ratio, Vertical, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4790	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 25. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Optical Depth/IR Cloud Emissivity, Frequency Distribution, Visible, Statistics, Four_Layers, Monthly, Zonal & Global Avg	4791	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 26. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Area Fraction, Overcast, Weighted Avg Column, Monthly, Zonal & Global Avg	4792	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 27. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Area Fraction, Total, Weighted Avg Column, Monthly, Zonal & Global Avg	4793	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 28. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Area Fraction, Broken, Weighted Avg Column, Monthly, Zonal & Global Avg	4794	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 29. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Optical Depth, Visible, Weighted Avg Column, Monthly, Zonal & Global Avg	4795	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 30. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Emissivity, IR, Weighted Avg Column, Monthly, Zonal & Global Avg	4796	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 31. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Liquid Water Path, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4797	Barkstrom	g/m^2		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 32. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Ice Water Path, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4798	Barkstrom	g/m^2		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 33. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Pressure, Top, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4799	Barkstrom	hPa		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 34. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Pressure, Effective, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4800	Barkstrom	hPa		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 35. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER15	Cloud Temperature, Effective, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4801	Barkstrom	K		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 36. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Height, Effective, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4802	Barkstrom	km		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 37. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Pressure, Bottom, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4803	Barkstrom	hPa		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 38. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Liquid Particle Radius, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4804	Barkstrom	µm		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 39. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Ice Particle Radius, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4805	Barkstrom	µm		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 40. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Phase, Particle, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4806	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 41. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Aspect Ratio, Vertical, Statistics, Weighted Avg Column, Monthly, Zonal & Global Avg	4807	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 42. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Visible Optical Depth / IR Emissivity , Percentiles, Weighted Avg Column, Monthly, Zonal & Global Avg	4808	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 43. The weighting schemes are TOA SW, TOA LW, SFC LW, LWC, and IWC. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Overlap Area Coverage, Monthly, Zonal & Global Avg	4809	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 44. Overlap conditions are clear, low (L), lower middle (LM), upper middle (UM), high (H), H/UM, H/LM, H/L, UM/LM, UM/L and LM/L.
CER15	Cloud Fractional Area Coverage, Angular Model Scenes, Monthly, Zonal & Global Avg	4810	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 45. There are 12 Angular Model Scene classes.
CER15	Albedo, Angular Model Scenes, Monthly, Zonal & Global Avg	4811	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 46. There are 12 Angular Model Scene classes.
CER15	Radiative Flux, Solar Incident, Angular Model Scenes, Monthly, Zonal & Global Avg	4812	Barkstrom	W/m^2		1/mon	2.5 deg :: G	N/A :: Sfc	ZAVG parameter 47. There are 12 Angular Model Scene classes.
CER15	Radiative Flux, LW, Angular Model Scenes, Monthly, Zonal & Global Avg	4813	Barkstrom	W/m^2		1/mon	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 48. There are 12 Angular Model Scene classes.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER15	Cloud Temperature, Effective, Statistics, 4 layers, Monthly, Zonal & Global Avg Adjusted	4814	Barkstrom	K		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 49. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Optical Depth, Effective, Statistics, 4 layers, Monthly, Zonal & Global Avg Adjusted	4815	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 50. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Fraction Area, Effective, Statistics, 4 layers, Monthly, Zonal & Global Avg Adjusted	4816	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 51. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Emissivity, Effective, Statistics, 4 layers, Monthly, Zonal & Global Avg Adjusted	4817	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 52. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Cloud Visible Optical Depth / IR Emissivity , Percentiles, 4 layers, Monthly, Zonal & Global Avg	4818	Barkstrom	N/A		1/mon	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 53. The statistics include mean, standard deviation, and number of days. The cloud layers are H, UM, LM, and L.
CER15	Pressure, Atmospheric Layers, Monthly, Zonal & Global Avg	4820	Barkstrom	hPa		1/mon	2.5 deg :: G	Lyr :: Atmos	ZAVG parameter 55. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA.
CER15	Radiative Flux, SW, Up, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly Zonal & Global	4821	Barkstrom	W/m^2		1/mon	2.5 deg :: G	Lyr :: Atmos	ZAVG parameter 56. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, SW, Down, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly Zonal & Global	4822	Barkstrom	W/m^2		1/mon	2.5 deg :: G	Lyr :: Atmos	ZAVG parameter 57. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, LW, Up, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly Zonal & Global	4823	Barkstrom	W/m^2		1/mon	2.5 deg :: G	Lyr :: Atmos	ZAVG parameter 58. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, LW, Down, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly Zonal & Global	4824	Barkstrom	W/m^2		1/mon	2.5 deg :: G	Lyr :: Atmos	ZAVG parameter 59. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, SW, Up, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly Zonal & Global	4825	Barkstrom	W/m^2		1/mon	2.5 deg :: G	Lyr :: Atmos	ZAVG parameter 60. The atmospheric layers are surface, and TOA. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, SW, Down, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly Zonal & Global	4826	Barkstrom	W/m^2		1/mon	2.5 deg :: G	Lyr :: Atmos	ZAVG parameter 61. The atmospheric layers are surface, and TOA. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, LW, Up, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly Zonal & Global	4827	Barkstrom	W/m^2		1/mon	2.5 deg :: G	Lyr :: Atmos	ZAVG parameter 62. The atmospheric layers are surface, and TOA. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, LW, Down, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly Zonal & Global	4828	Barkstrom	W/m^2		1/mon	2.5 deg :: G	Lyr :: Atmos	ZAVG parameter 63. The atmospheric layers are surface, and TOA. The statistics include mean, standard deviation, and number of days.
CER15	Photosythetically Active Radiation, Sfc, Zonal & Global Avg	4829	Barkstrom	W/m^2		1/mon	2.5 deg :: G	N/A :: Sfc	ZAVG parameter 64.

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CER15	Direct/Diffuse Ratio, Sfc, Zonal & Global Avg	4830	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Sfc	ZAVG parameter 65.
CER15	Precipitable Water, Adjusted, Zonal & Global Avg	4831	Barkstrom	cm		1/mon	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 66.
CER15	Albedo, Adjusted, Zonal & Global Avg	4832	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 67.
CER15	Aerosol Optical Depth, Adjusted, Zonal & Global Avg	4833	Barkstrom	N/A		1/mon	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 68.
CER15	Skin Temperature, Adjusted, Zonal & Global Avg	4834	Barkstrom	K		1/mon	2.5 deg :: G	N/A :: Sfc	ZAVG parameter 69.
CER15	Radiative Flux, SW, Statistics, TOA, Clear_sky and Total_sky, Monthly_3-Hourly, Zonal & Global	4835	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: TOA	ZAVG parameter 70. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, LW, Statistics, TOA, Clear_sky and Total_sky, Monthly_3-Hourly, Zonal & Global	4836	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: TOA	ZAVG parameter 71. The statistics include mean, standard deviation, and number of days.
CER15	Radiative Flux, LW, Window, Statistics, TOA, Clear_sky and Total_sky, Monthly_3 Hourly, Zonal & Global	4837	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: TOA	ZAVG parameter 72. The statistics include mean, standard deviation, and number of days.
CER15	Cloud Area Fraction, Overcast, Statistics, Weighted_Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4838	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 73. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Area Fraction, Total, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4839	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 74. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Area Fraction, Broken, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4840	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 75. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Optical Depth, Visible, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4841	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 76. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Emissivity, IR, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4842	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 77. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Liquid Water Path, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4843	Barkstrom	g/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 78. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Ice Water Path, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4844	Barkstrom	g/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 79. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER15	Cloud Pressure, Top, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4845	Barkstrom	hPa		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 80. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Pressure, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4846	Barkstrom	hPa		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 81. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Temperature, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4847	Barkstrom	K		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 82. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Height, Effective, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4848	Barkstrom	km		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 83. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Pressure, Bottom, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4849	Barkstrom	hPa		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 84. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Liquid Particle Radius, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4850	Barkstrom	TBD		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 85. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Ice Particle Radius, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4851	Barkstrom	TBD		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 86. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Phase, Particle, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4852	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 87. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Aspect Ratio, Vertical, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4853	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 88. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Cloud Visible Optical Depth/ IR Emissivity, Percentiles, Statistics, Weighted Avg Column, Monthly_3-Hourly, Zonal & Global Avg	4854	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 89. Cloud weightings are SW, LW TOA, LW Surface, liq. water path, and ice water path. Statistics include mean, standard deviation, and number of hours.
CER15	Fractional Area Coverage, Statistics, Angular Model Scenes, Monthly_3-Hourly, Zonal & Global Avg	4855	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Cloud	ZAVG parameter 90. There are 12 Angular Model Scene classes.
CER15	Albedo, Statistics, Angular Model Scenes, Monthly_3-Hourly, Zonal & Global Avg	4856	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 91. There are 12 Angular Model Scene classes.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER15	Radiative Flux, Solar, Incident, Statistics, Angular Model Scenes, Monthly_3-Hourly, Zonal & Global Avg	4857	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Sfc	ZAVG parameter 92. There are 12 Angular Model Scene classes.
CER15	Radiative Flux, LW, Statistics, Angular Model Scenes, Monthly_3-Hourly, Zonal & Global Avg	4858	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 93. There are 12 Angular Model Scene classes.
CER15	Cloud Temperature, Effective, Statistics, 4 Cloud Layers, Monthly_3-Hourly, Zonal & Global Avg Adjusted	4859	Barkstrom	K		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 94. The cloud layers are H, UM, LM, and L. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Optical Depth, Effective, Adjusted, Statistics, 4 Cloud Layers, Monthly_3-Hourly, Zonal & Global Avg	4860	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 95. The cloud layers are H, UM, LM, and L. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Fraction Area, Effective, Adjusted, Statistics, 4 Cloud Layers, Monthly_3-Hourly, Zonal & Global Avg	4861	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 96. The cloud layers are H, UM, LM, and L. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Emissivity, Effective, Adjusted, Statistics, 4 Cloud Layers, Monthly_3-Hourly, Zonal & Global Avg	4862	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 97. The cloud layers are H, UM, LM, and L. Statistics include mean, standard deviation, and number of days.
CER15	Cloud Visible Optical Depth/ IR Emissivity, Percentiles, Statistics, 4 Cloud Layers, Monthly_3-Hourly, Zonal & Global Avg	4863	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	Lyr :: Cloud	ZAVG parameter 98. The cloud layers are H, UM, LM, and L. Statistics include mean, standard deviation, and number of days.
CER15	Pressure, Atmospheric Layers, Monthly_3-Hourly, Zonal & Global Avg	4865	Barkstrom	hPa		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 100. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA.
CER15	Radiative Flux, SW, Up, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_3-Hourly, Monthly Zonal & Global	4866	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 101. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA. Statistics include mean, standard deviation, and number of hours.
CER15	Radiative Flux, SW, Down, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_3-Hourly, Monthly Zonal & Global	4867	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 102. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA. Statistics include mean, standard deviation, and number of hours.
CER15	Radiative Flux, LW, Up, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_3-Hourly, Monthly Zonal & Global	4868	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 103. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA. Statistics include mean, standard deviation, and number of hours.
CER15	Radiative Flux, LW, Down, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_3-Hourly, Monthly Zonal & Global	4869	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 104. The atmospheric layers are surface, 500 hPa, Tropopause, and TOA. Statistics include mean, standard deviation, and number of hours.
CER15	Radiative Flux, SW, Up, Adjusted, Atmos Layer, Statistics, Total_sky and Clear_sky, Monthly_3-Hourly, Monthly Zonal & Global	4870	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 105. The atmospheric layers are surface, and TOA. Statistics include mean, standard deviation, and number of hours.
CER15	Radiative Flux, SW, Down, Adjusted, Atmos Layer, Statistics, Total_sky & Clear_sky, Monthly_3-Hourly, Monthly Zonal & Global	4871	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 106. The atmospheric layers are surface, and TOA. Statistics include mean, standard deviation, and number of hours.
CER15	Radiative Flux, LW, Up, Adjusted, Atmos Layer, Statistics, Total_sky & Clear_sky, Monthly_3-Hourly, Monthly Zonal & Global	4872	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 107. The atmospheric layers are surface, and TOA. Statistics include mean, standard deviation, and number of hours.

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
CER15	Radiative Flux, LW, Down, Adjusted, Atmos Layer, Statistics, Total_sky & Clear_sky, Monthly_3-Hourly, Monthly Zonal & Global	4873	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 108. The atmospheric layers are surface, and TOA. Statistics include mean, standard deviation, and number of hours.
CER15	Photosythetically Active Radiation, Sfc, Monthly_3-Hourly, Zonal & Global Avg	4874	Barkstrom	W/m^2		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Sfc	ZAVG parameter 109.
CER15	Direct/Diffuse Ratio, Sfc, Monthly_3-Hourly, Zonal & Global Avg	4875	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Sfc	ZAVG parameter 110.
CER15	Precipitable Water, Adjusted, Monthly_3-Hourly, Zonal & Global Avg	4876	Barkstrom	cm		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 111.
CER15	Albedo, Adjusted, Monthly_3-Hourly, Zonal & Global Avg	4877	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 112.
CER15	Aerosol Optical Depth, Adjusted, Monthly_3-Hourly, Zonal & Global Avg	4878	Barkstrom	N/A		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Atmos	ZAVG parameter 113.
CER15	Skin Temperature, Adjusted, Monthly_3-Hourly, Zonal & Global Avg	4879	Barkstrom	K		8/mon [1-mon avg for each 3-hr of day]	2.5 deg :: G	N/A :: Sfc	ZAVG parameter 114.
CER16	Albedo, Visible	5002	Barkstrom	dimensionless		1/(10 day)			CRH Parameter 3
CER16	Temperatures	5003	Barkstrom	K		1/(10 day)			CRH Parameter 4-5. Separately derived from 3.7 & 11 um channels.
COL01	Radiance, GAC Recorded	5001	Esaias				4 km, 1 - 2.5 deg :: Ocean	N/A :: Sfc	1.1 km FOV, subsampled every 4th pixel/scan for 40 min per orbit. COL01BR is browse product.
COL01	Radiance, LAC Recorded	5002	Esaias				1.1 km, 1 - 2.5 deg :: Ocean/L	N/A :: Sfc	1.1 km FOV, every pixel/scan for 10 min per day. COL01BR is browse product.
COL01	Radiance, HRPT	5003	Esaias				1.1 km, 1 - 2.5 deg :: Ocean/L	N/A :: Sfc	1.1 km FOV, every pixel/scan - direct transmission for 30 min per day. COL01BR is browse product.
COL02	Aerosol Radiances (3)	5004	Esaias				4 km :: Ocean	N/A :: Sfc	
COL02	Chlorophyll-A Conc	5005	Esaias				4 km :: Ocean	N/A :: Sfc	
COL02	Diffuse Attentuation Coefficient @ 490 nm	5006	Esaias				4 km :: Ocean	N/A :: Sfc	
COL02	Pigment Conc	5007	Esaias				4 km :: Ocean	N/A :: Sfc	
COL02	Water Leaving Radiances (5)	5008	Esaias				4 km :: Ocean	N/A :: Sfc	
COL03	Aerosol Radiances, Gridded (3)	5004A1	Esaias			1/day, 1/wk, 1/mon, 1/yr	10-20 km :: Ocean	N/A :: Sfc	
COL03	Chlorophyll-A Conc, Gridded	5005A1	Esaias			1/day, 1/wk, 1/mon, 1/yr	10-20 km :: Ocean	N/A :: Sfc	
COL03	Diffuse Attentuation Coefficient @ 490 nm, Gridded	5006A1	Esaias			1/day, 1/wk, 1/mon, 1/yr	10-20 km :: Ocean	N/A :: Sfc	
COL03	Pigment Conc, Gridded	5007A1	Esaias			1/day, 1/wk, 1/mon, 1/yr	10-20 km :: Ocean	N/A :: Sfc	
COL03	Water Leaving Radiances, Gridded (5)	5008A1	Esaias			1/day, 1/wk, 1/mon, 1/yr	10-20 km :: Ocean	N/A :: Sfc	
COL04	Chlorophyll-A Conc, Gridded	5005A2	Esaias			1/day, 1/wk, 1/mon, 1/yr	10-20 km, 1 - 2.5 deg :: Ocean	N/A :: Sfc	
COL05	Diffuse Attenuation Coefficient @ 490 nm	5006A2	Esaias			1/day, 1/wk, 1/mon, 1/yr	10-20 km, 1 - 2.5 deg :: Ocean	N/A :: Sfc	
COL06	Water Leaving Radiance	5008A2	Esaias			1/day, 1/wk, 1/mon, 1/yr	10-20 km, 1 - 2.5 deg :: Ocean	N/A :: Sfc	
COL07	Aerosol Radiance	5004A2	Esaias			1/day, 1/wk, 1/mon, 1/yr	10-20 km, 1 - 2.5 deg :: Ocean	N/A :: Sfc	
COL08	Pressure, Sfc	5009	Esaias			4/day	1 - 2.5 deg :: G	N/A :: Sfc	NMC analysis field
COL08	Wind Speed, Sfc	5010	Esaias			4/day	1 - 2.5 deg :: G	N/A :: Sfc	NMC analysis field
COL08	Ozone	5020	Esaias			4/day	1 - 2.5 deg :: G	N/A :: Atmos	TOMS ozone data
DFA01	Altimeter Waveform	3464	Fu	db	:: 0.25 db		0.35 km :: earth	N/A :: Sfc	
DFA02	Wind Speed, Along-track	1735	Fu	m/s	2 m/s ::		7 km :: Ocean	N/A :: Sfc	
DFA02	Sea_Level Height, Along-track	3112	Fu	cm	10 cm :: 2 cm		7 km :: Ocean	N/A :: Sfc	
DFA02	Ocean Wave Height, Along-track	3129	Fu	m	0.5 m or 10% ::		7 km :: Ocean	N/A :: Sfc	
DFA02	Backscatter Coef (Sigma-0), Along-track Radar	3756	Fu	dB	1.0 :: 0.25 db		7 km :: Ocean	N/A :: Sfc	
DFA03	Topography Map, Sea_sfc	3108	Fu	cm	5 cm or 10% ::	1/(10 day)	25 km :: Ocean	N/A :: Sfc	

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
DFA04	Ice_Sheet Elevation Map	2911	Zwally	m	.05-5m ::	1/yr	15 km :: Land/Cryo	N/A :: Sfc	
DFA05	Ocean Tide Model	3121	Sanchez	cm	2 cm ::	1/mission	100 km :: Ocean	N/A :: Sfc	
DFA06	Wind Speed, Along-track	1735A1	Fu	m/s	2 m/s ::		7 km :: Ocean	N/A :: Sfc	
DFA06	Sea_Level Height, Along-track	3112A1	Fu	cm	10 cm :: 2 cm		7 km :: Ocean	N/A :: Sfc	
DFA06	Ocean Wave Height, Along-track	3129A1	Fu	m	0.5 m or 10% ::		7 km :: Ocean	N/A :: Sfc	
DFA06	Backscatter Coef (Sigma-0), Along-track Radar	3756A1	Fu	dB	1.0 :: 0.25 db		7 km :: Ocean	N/A :: Sfc	
EOS01	Level-1B Polarization, EOSP	2336	Travis	dimensionless	0.2% :: 0.1%	1/day	10-70 km :: G	N/A :: N/A	
EOS02	Level-1B Radiance, EOSP	2362	Travis	W/m^2/sr/µm	5% :: 1%	1/day	10-70 km :: G	N/A :: N/A	
EOS03	Aerosol Optical Thickness	2297	Travis	dimensionless	0.05 :: 10%	1/day	40 km :: G	Column :: Atmos	
EOS04	Aerosol Particle Size	3740	Travis	µm	25% :: 25%	1/day	100 km :: G	N/A :: Aerosol_lyr	Research product
EOS04	Aerosol Refractive Index	3741	Travis	dimensionless	0.03 :: 0.03	1/day	100 km :: G	N/A :: Aerosol_lyr	Research product
EOS04	Aerosol Profile	3742	Travis			1/day	100 km :: G	:: Atmos	Research product
EOS05	Cloud Pressure, Top	1530	Travis	mb	30 mb :: 30 mb	1/day	40 km :: G	30 mb :: Cloud_top	
EOS05	Cloud Particle Phase	1770	Travis	water/ice	:: 95% Corr	1/day	100 km :: G	N/A :: Cloud_top	
EOS05	Cloud Particle Size	1774	Travis	µm	25% :: 25%	1/day	100 km :: G	N/A :: Cloud_top	
EOS05	Cloud Optical Thickness	2313	Travis	dimensionless	20% :: 10%	1/day	40 km :: G	Column :: Cloud	
EOS06	Level-2 Radiance, Clear_sky Atmos_corrected, EOSP	2353	Travis	W/m^2/sr/µm	25% :: 15%	1/day	40 km :: G	N/A :: N/A	
EOS07	Vegetation/Land Classification (via Polarization)	3743	Travis	N/A	N/A	1/mon	40 km :: Land	N/A :: Sfc	Research product
EOS08	Improved Methods for Treating Radiative Effects of Clouds and Aerosols in Climate Models	3744	Travis	N/A			N/A :: N/A	N/A :: Atmos	Research product
GLA01	Pulse Travel Time	4343	Abshire, Schutz	ps		333 ps		5 cm ::	
GLA01	Return Pulse Waveform	4344	Abshire, Schutz	mv	:: 0.5%	333 ps	70 km ::	5 cm ::	
GLA01	Transmit Pulse Energy	4345	Abshire, Schutz	mJ	:: 0.5%	25 ms		-	
GLA01	Receive Pulse Energy	4346	Abshire, Schutz	fJ	5% :: 0.5%	25 ms	70 km ::	-	
GLA01	Cumulative Backscatter	4347	Abshire, Schutz	-	-	1 sec	7 km ::	-	
GLA01	Cloud Top Height	4348	Abshire, Schutz	m	:: 75m	25 ms	70 km ::	75 m ::	
GLA01	GPS Pseudorange/Phase	4349	Abshire, Schutz	mm	:: 5mm	< 1 sec	-	-	
GLA01	Star Camera/Gyro	4350	Abshire, Schutz	arc sec	:: 3 arc sec	< 100 ms	-	-	
GLA01	Calibration	4351	Abshire, Schutz		TBD		-	-	
GLA03	Altimeter Height Vector	4355	Schutz, Herring	mm	200mm (ice)-5000mm (land) ::	40 Hz	175 m	:: Cryo/L	
GLA04	Level-1B Backscatter Coef, GLAS	2104	Spinhirne, Schutz	/(m-sr)	10% ::	1/(2-16 day)	1-100 km :: G	75 m ::	
GLA05	Aerosol Vertical Structure (Profile)	2308	Spinhirne, Schutz	/m	20% ::	1/(2-16 day)	2-100 km :: G	150 m :: Atmos	
GLA05	Cloud 1064 nm Backscatter Cross Section	6225	Spinhirne, Schutz			1/(2-16 day)	2-100 km :: G	150 m :: Atmos	
GLA05	Aerosol Backscatter Cross Section	6226	Spinhirne, Schutz			1/(2-16 day)	2-100 km :: G	150 m :: Atmos	
GLA05	Cloud Absorption Cross Section	6227	Spinhirne, Schutz			1/(2-16 day)	2-100 km :: G	150 m :: Atmos	
GLA05	Aerosol Extinction Cross Section	6228	Spinhirne, Schutz			1/(2-16 day)	2-100 km :: G	150 m :: Atmos	
GLA05	Cloud 532 nm Backscatter Cross Section	6229	Spinhirne, Schutz			1/(2-16 day)	2-100 km :: G	150 m :: Atmos	
GLA06	Cloud Height (for multi-layers)	1400	Spinhirne, Schutz	m	75 m ::	1/(2-16 day)	0.2-10 km :: G	N/A :: Cloud	
GLA07	Ice_Sheet Elevation	2912	Zwally, Thomas, Bentley, and Schutz	mm	200 mm (3° slope) ::	2/yr	188 m (AT) x 5 km (CT) ::	N/A :: Cryo	
GLA08	Ice_Sheet Roughness	1554	Bentley, Thomas, Zwally, and Schutz	m	10% ::	2/yr	50 km :: Cryo	N/A :: Cryo	
GLA09	Thin Cloud/Aerosol Optical Depth	2291	Spinhirne, Schutz	dimensionless	20% ::	1/(2-16 day)	2-100 km :: G	N/A :: Atmos	
GLA10	Topographic Elevation, Land_sfc	2858	Bufton, Minster, Schutz	m	1-5 m ::	2/yr	188 m (AT) x 15 km (CT) :: Land	N/A :: Sfc	
GLA11	Vegetation Canopy Height	3746	Bufton, Minster, Schutz	m	1-5 m ::	2/yr	188 m (AT) x 15 km (CT) :: Land	N/A :: Sfc	
GLA12	Boundary Layer Height	1014	Spinhirne, Schutz	m	150 m ::	1/(2-16 day)	2-100 km :: G	N/A :: Atmos	
HIR01	Level-1B Radiance	2369	Barnett, Gille	W/m^2/sr, deg/s					
HIR01	Level-1B Housekeeping Measurements	7201	Barnett, Gille	Volts, etc.					
HIR01	Level-1B Location & Time	7202	Barnett, Gille	lat, lon, & sec					
HIR02	Aerosol Extinction Coef	1992	Barnett, Gille	/km	5-10% :: 1-10%	2/day	400 x 400 km :: G	1 km :: 5-60 km (given accuracies for 7-30 km)	

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
HIR03	CFC-11(CFCl3) Conc	1055	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	400 x 400 km :: G	1 km :: 5-50 km (given accuracies for 7-30 km)	
HIR04	CFC-12(CF2Cl2) Conc	1047	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	400 x 400 km :: G	1 km :: 5-55 km (given accuracies for 7-30 km)	
HIR05	CH4 Conc	1085	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	400 x 400 km :: G	1 km :: 5-65 km (given accuracies for 7-65 km)	
HIR06	ClONO2 Conc	3723	Barnett, Gille	mix ratio	5-10% :: 3-15%	2/day	400 x 400 km :: G	1 km :: 15-65 km	
HIR07	Cloud Height, PSC	1408	Barnett, Gille	km	0.4 km :: 0.4 km	2/day	400 x 400 km :: G	0.4 km :: Stratro	
HIR07	Cloud Height, Top	1531	Barnett, Gille	km	0.4 km :: 0.4 km	2/day	400 x 400 km :: G	0.4 km :: Trop	
HIR07	Cloud Pressure, Top	3773	Barnett, Gille	mb	5-10% :: 5-10%	2/day	400 x 400 km :: G	0.4 km :: Trop	
HIR08	Geopotential Height-Gradient	1500	Barnett, Gille	m/km	0.04m/km :: 0.04m/km	2/day	400 x 400 km :: G	1 km :: 5-80 km (given accuracies for 15-80 km)	
HIR09	H2O Conc	1837	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	400 x 400 km :: G	1 km :: 5-70 km (given accuracies for 7-70 km)	
HIR10	HNO3 Conc	1202	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	400 x 400 km :: G	1 km :: 5-50 km (given accuracies for 10-40 km)	
HIR11	N2O Conc	1239	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	400 x 400 km :: G	1 km :: 5-70 km (given accuracies for 7-60 km)	
HIR12	N2O5 Conc	1254	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	400 x 400 km :: G	1 km :: 10-65 km (given accuracies for 15-45 km)	
HIR13	NO2 Conc	1273	Barnett, Gille	mix ratio	5-10% :: 3-10%	2/day	400 x 400 km :: G	1 km :: 5-65 km (given accuracies for 10-55 km)	
HIR14	O3 Conc	1318	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	400 x 400 km :: G	1 km :: 5-80 km (given accuracies for 7-80 km)	
HIR15	Pressure	1524	Barnett, Gille	mb	0.1%::0.1%	2/day	400 x 400 km :: G	0.2 km :: 5-130 km	
HIR15	Temperature Profile	1608	Barnett, Gille	K	1K :: 0.3K (<50km); 2K ::1K (>50km)	2/day	400 x 400 km :: G	1 km :: 5-130 km	
HIR16	Temperature Profile	1608A1	Barnett, Gille	K	1K :: 0.3K (<50km); 2K ::1K (>50km)	2/day	4 x 4 deg :: G	1 km :: 5-130 km	
HIR17	CFC-11(CFCl3) Conc	1055A1	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	4 x 4 deg :: G	1 km :: 5-50 km	
HIR18	CFC-12(CF2Cl2) Conc	1047A1	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	4 x 4 deg :: G	1 km :: 5-55 km	
HIR19	CH4 Conc	1085A1	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	4 x 4 deg :: G	1 km :: 5-65 km	
HIR20	ClONO2	3723A1	Barnett, Gille	mix ratio	5-10% :: 3-10%	2/day	4 x 4 deg :: G	1 km :: 15-65 km	
HIR21	H2O Conc	1837A1	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	4 x 4 deg :: G	1 km :: 5-70 km	
HIR22	HNO3 Conc	1202A1	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	4 x 4 deg :: G	1 km :: 5-50 km	
HIR23	N2O Conc	1239A1	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	4 x 4 deg :: G	1 km :: 5-70 km	
HIR24	N2O5 Conc	1254A1	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	4 x 4 deg :: G	1 km :: 10-65 km	
HIR25	NO2 Conc	1273A1	Barnett, Gille	mix ratio	5-10% :: 3-10%	2/day	4 x 4 deg :: G	1 km :: 5-65 km	
HIR26	O3 Conc	1318A1	Barnett, Gille	mix ratio	5-10% :: 1-10%	2/day	4 x 4 deg :: G	1 km :: 5-80 km	
HIR27	Wind Velocity, Balanced/Geostrophic	1687	Barnett, Gille	m/s	3 m/s :: 3 m/s	2/day	4 x 4 deg :: G	1 km :: 5-80 km	
HIR28	Geopotential Height	1500A1	Barnett, Gille	geopotent. m	200m<50km;400m>50km :: 14m	2/day	4 x 4 deg :: G	1 km :: 5-80 km	
HIR29	Aerosol Extinction Coef	1992A1	Barnett, Gille	µg/m^3	20% :: 1-10%	2/day	4 x 4 deg :: G	1 km :: 5-60 km	
LIS01	Pulse Data Stream	4356	Christian	counts		1/(2 ms)	0.05 lat/long :: G	N/A ::	
LIS01	Calibration Matrix	4357	Christian	W/m^2/sr/µm		N/A	N/A ::	N/A ::	
LIS01	Navigation Data	4358	Christian			N/A	N/A ::	N/A ::	
LIS01	Continuity Data	4359	Christian	N/A	N/A :: N/A	N/A	N/A ::	N/A ::	
LIS01	Error List	4360	Christian	N/A	N/A :: N/A	N/A	N/A ::	N/A ::	
LIS01	QC Data	4361	Christian	N/A	N/A :: N/A	N/A	N/A ::	N/A ::	
LIS01	Correction Data	4362	Christian	N/A	N/A :: N/A	N/A	N/A ::	N/A ::	
LIS01	Background Data Stream	6104	Christian	counts		1/(2 ms)	0.05 lat/long :: G	N/A ::	
LIS02	Latitude, Background	3501	Christian	deg				N/A ::	
LIS02	Longitude, Background	3502	Christian	deg				N/A ::	
LIS02	Time, Background	3503	Christian	sec	2 sec ::			N/A ::	
LIS02	Raw Amplitude, Background	3504	Christian	counts		1/(2 ms)	0.05 lat/long :: G	N/A ::	
LIS02	Radiance, Background	3505	Christian	W/m^2/sr/µm		1/(2 ms)	0.05 lat/long :: G	N/A ::	
LIS03	Raw Amplitude, Events	3506	Christian	counts		1/(2 ms)	0.05 lat/long :: G	N/A ::	
LIS03	Radiance, Events	3507	Christian	W/m^2/sr/µm		1/(2 ms)	0.05 lat/long :: G	N/A ::	

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LIS03	Latitude, Events	3508	Christian	deg				N/A ::	
LIS03	Longitude, Events	3509	Christian	deg				N/A ::	
LIS03	View Time, Events	3510	Christian	sec	2 sec ::			N/A ::	
LIS03	Self Index, Events	6000	Christian	dimensionless					
LIS03	Parent Group Index, Events	6001	Christian	dimensionless					
LIS03	Time, Events	6002	Christian	sec					
LIS03	Row Pixel, Events	6003	Christian	dimensionless		1/(2 ms)	0.05 lat/long :: G		
LIS03	Column Pixel, Events	6004	Christian	dimensionless		1/(2 ms)	0.05 lat/long :: G		
LIS04	Radiance Summation, Group	3511	Christian	W/m^2/sr/µm		1/(2 ms)	0.05 lat/long :: G	N/A ::	
LIS04	Latitude Centroid, Group	3512	Christian	deg				N/A ::	
LIS04	Longitude Centroid, Group	3513	Christian	deg				N/A ::	
LIS04	Latitude Standard Dev, Group	3514	Christian	deg				N/A ::	
LIS04	Longitude Standard Dev, Group	3515	Christian	deg				N/A ::	
LIS04	View Time, Group	3516	Christian	sec	2 sec ::			N/A ::	
LIS04	Event Count, Group	3517	Christian	counts		1/(2 ms)	0.05 lat/long :: G	N/A ::	
LIS04	Self Index, Groups	6005	Christian	dimensionless					
LIS04	Parent Flash Index, Groups	6006	Christian	dimensionless					
LIS04	Start Time, Groups	6007	Christian	sec					
LIS04	Life Time, Groups	6008	Christian	sec					
LIS04	Active Status, Groups	6009	Christian	N/A					
LIS04	Latlon Count, Groups	6010	Christian	counts		1/(2 ms)	0.05 lat/long :: G		
LIS04	Child Event Count, Groups	6011	Christian	counts		1/(2 ms)	0.05 lat/long :: G		
LIS04	First Child Event Index, Groups	6012	Christian	dimensionless					
LIS05	Event Count, Flashes	3518	Christian	counts		1/330 ms	0.05 lat/long :: G	N/A ::	
LIS05	Child Group Count, Flashes	3519	Christian	counts		1/330 ms	0.05 lat/long :: G	N/A ::	
LIS05	Radiance Summation, Flashes	3520	Christian	W/m^2/sr/µm		1/330 ms	0.05 lat/long :: G	N/A ::	
LIS05	Latitude Centroid, Flashes	3521	Christian	deg				N/A ::	
LIS05	Longitude Centroid, Flashes	3522	Christian	deg				N/A ::	
LIS05	Latitude Standard Dev, Flashes	3523	Christian	deg				N/A ::	
LIS05	Longitude Standard Dev, Flashes	3524	Christian	deg				N/A ::	
LIS05	View Time, Flashes	3525	Christian	sec				N/A ::	
LIS05	Self Index, Flashes	6013	Christian	dimensionless					
LIS05	Parent Area Index, Flashes	6014	Christian	dimensionless					
LIS05	Start Time, Flashes	6015	Christian	sec					
LIS05	Life Time, Flashes	6016	Christian	sec					
LIS05	Active Status, Flashes	6017	Christian	N/A					
LIS05	Latlong Count, Falshes	6082	Christian	counts					
LIS05	First Child Group Index, Flashes	6083	Christian	dimensionless					
LIS06	Event Count, Areas	3526	Christian	counts		1/80 sec	0.1 lat/long :: G	N/A ::	
LIS06	Child Flash Count, Areas	3527	Christian	counts		1/80 sec	0.1 lat/long :: G	N/A ::	
LIS06	Radiance Summation, Areas	3528	Christian	W/m^2/sr/µm		1/80 sec	0.1 lat/long :: G	N/A ::	
LIS06	Latitude Centroid, Areas	3529	Christian	deg				N/A ::	
LIS06	Longitude Centroid, Areas	3530	Christian	deg				N/A ::	
LIS06	Latitude Standard Dev, Areas	3531	Christian	deg				N/A ::	
LIS06	Longitude Standard Dev, Areas	3532	Christian	deg				N/A ::	
LIS06	View Time, Areas	3533	Christian	sec				N/A ::	
LIS06	Self Index, Areas	6018	Christian	dimensionless					
LIS06	Parent Orbit Index, Areas	6019	Christian	dimensionless					
LIS06	Start Time, Areas	6020	Christian	sec					
LIS06	Life Time, Areas	6021	Christian	sec					
LIS06	Active Status, Areas	6022	Christian	N/A					
LIS06	Latlon Count, Areas	6084	Christian						
LIS06	First Child Falsh Index, Areas	6085	Christian						
LIS07	Pixel Event Count, Orbits	3534	Christian	counts		1/orbit	0.1 lat/long :: G	N/A ::	
LIS07	Pixel Total Raw Amplitude, Orbits	3535	Christian	counts		1/orbit	0.1 lat/long :: G	N/A ::	
LIS07	Pixel Average Raw Amplitude, Orbits	3536	Christian	counts		1/orbit	0.1 lat/long :: G	N/A ::	
LIS07	Pixel Peak Raw Amplitude, Orbits	3537	Christian	counts		1/orbit	0.1 lat/long :: G	N/A ::	
LIS07	Pixel Total Radiance, Orbits	3538	Christian	W/m^2/sr/µm		1/orbit	0.1 lat/long :: G	N/A ::	

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LIS07	Pixel Average Radiance, Orbits	3539	Christian	W/m^2/sr/µm		1/orbit	0.1 lat/long :: G	N/A ::	
LIS07	Pixel Peak Radiance, Orbits	3540	Christian	W/m^2/sr/µm		1/orbit	0.1 lat/long :: G	N/A ::	
LIS07	Child Area Count, Orbits	3541	Christian	counts		1/orbit	0.1 lat/long :: G	N/A ::	
LIS07	Self Index, Orbits	6086	Christian						
LIS07	Start Time, Orbits	6087	Christian						
LIS07	Stop time, Orbits	6088	Christian						
LIS07	Start Latitude, Orbits	6089	Christian						
LIS07	Stop Latitude, Orbits	6090	Christian						
LIS07	Start Longitude, Orbits	6091	Christian						
LIS07	Stop Longitude, Orbits	6092	Christian						
LIS07	Vector Product Index, Orbits	6093	Christian						
LIS07	Browse Products Index, Orbits	6094	Christian						
LIS07	First Child Area Index, Orbits	6095	Christian						
LIS08	Maximum Event Radiance, Vector	3542	Christian	W/m^2/sr/µm		1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	Maximum Group Radiance, Vector	3543	Christian	W/m^2/sr/µm		1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	Maximum Flash Radiance, Vector	3544	Christian	W/m^2/sr/µm		1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	Maximum Areas Radiance, Vector	3545	Christian	W/m^2/sr/µm		1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	Event Count, Vector	3546	Christian	counts		1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	Group Count, Vector	3547	Christian	counts		1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	Flash Count, Vector	3548	Christian	counts		1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	Areas Count, Vector	3549	Christian	counts		1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	Maximum Flash Rate, Vector	3550	Christian			1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	Time of Day, Vector	3551	Christian	sec				N/A ::	
LIS08	Single Event Areas, Vector	3552	Christian			1/orbit	0.1 lat/long :: G	N/A ::	
LIS08	View Time, Vector	6096	Christian						
LIS09	Background Locations, Browse	3565	Christian			1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09	Time, Background, Browse	3503A1	Christian	sec					Browse Parameter
LIS09	Raw Amplitude, Background, Browse	3504A1	Christian	counts					Browse Parameter
LIS09	Radiance, Background, Browse	3505A1	Christian	W/m^2/sr/µm					Browse Parameter
LIS09A1	Maximum Event Radiance, Browse	3553	Christian	W/m^2/sr/µm		1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Maximum Group Radiance, Browse	3554	Christian	W/m^2/sr/µm		1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Maximum Flash Radiance, Browse	3555	Christian	W/m^2/sr/µm		1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Maximum Areas Radiance, Browse	3556	Christian	W/m^2/sr/µm		1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Event Count, Browse	3557	Christian	counts		1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Group Count, Browse	3558	Christian	counts		1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Flash Count, Browse	3559	Christian	counts		1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Areas Count, Browse	3560	Christian	counts		1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Maximum Flash Rate, Browse	3561	Christian			1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Time of Day, Browse	3562	Christian	sec		1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	Single Event Areas, Browse	3563	Christian			1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS09A1	View Time, Browse	3564	Christian	sec	2 Sec ::	1/day	2.5 lat/long :: G	N/A ::	Browse Parameter
LIS10	Flash count rates	3566	Christian	counts		1/(15 day)	500 x 500 km, 2.5 x 2.5 deg ::	N/A ::	
LIS10A1	Flash count rates	3566A1	Christian	counts		1/mon	500 x 500 km, 2.5 x 2.5 deg ::	N/A ::	
MHS01	Level-1A Radiance, MHS (HSB)	4303	Chahine			2/day	15 x 15 km :: G	N/A :: N/A	
MHS02	Level-1B Radiance, MHS (HSB)	2352	Chahine	K	0.2dg NEdT :: 0.2dg NEdT	2/day	15 x 15 km :: G	N/A :: N/A	
MIS01	CCD Data - Science Data Number	3705	Diner	Dimensionless	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(2-9 day)	275 m - 1.1 km :: G, R	N/A :: TOA	
MIS01	Engineering Data- General Instrument	4305	Diner			15/day	N/A ::	N/A ::	
MIS01	CCD Data - Calibration Data Number	5291	Diner	Dimensionless	N/A ::	1/(32 day)	N/A ::	N/A ::	
MIS01	On-Board Calibrator (OBC) Data- Diode Temperature	5293	Diner		TBD :: TBD	N/A	N/A ::	N/A ::	
MIS01	Navigation Data - Time	5294	Diner	TBD	TBD :: TBD	N/A	N/A ::	N/A ::	
MIS01	Calibration Coefficient File Pointers - ARP	5295	Diner	TBD	N/A ::	N/A	N/A ::	N/A ::	

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MIS01	Calibration Coefficient File Pointers - AGP	5296	Diner		N/A ::	N/A	N/A ::	N/A ::	
MIS01	Motor Drive Data - Motor temperature	6029	Diner	dimensionless	N/A ::	N/A	N/A ::	N/A ::	
MIS01	On-Board Calibrator (OBC) Data- Diode Voltages	6105	Diner		TBD :: TBD	N/A	N/A ::	N/A ::	
MIS01	Engineering Data- Camera	6106	Diner		N/A ::	15/day	N/A ::	N/A ::	
MIS01	Navigation Data - Spacecraft position	6107	Diner	TBD	TBD :: TBD	N/A	N/A ::	N/A ::	
MIS01	Navigation Data - Spacecraft velocity	6108	Diner	TBD	TBD :: TBD	N/A	N/A ::	N/A ::	
MIS01	Navigation Data - Spacecraft attitude angle	6109	Diner	TBD	TBD :: TBD	N/A	N/A ::	N/A ::	
MIS01	Navigation Data - Spacecraft attitude rate	6110	Diner	TBD	TBD :: TBD	N/A	N/A ::	N/A ::	
MIS01	Motor Drive Data - Motor current	6111	Diner	dimensionless	N/A ::	N/A	N/A ::	N/A ::	
MIS02	Radiance	2387	Diner	W/m^2/µm/sr	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(2-9 day)	275 m - 1.1 km :: G	N/A :: TOA	
MIS02	Clear-sky Mask	4307	Diner	Dimensionless	TBD :: TBD	1/(2-9 day)	1.1 km :: G	N/A :: TOA	
MIS02	Radiance, Local Mode	5297	Diner	W/m^2/µm/sr	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(2-9 day)	275 m :: R	N/A :: TOA	
MIS03	Surface-Projected TOA Radiance	3728	Diner	W/m^2/µm/sr	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(2-9 day)	275 m - 1.1 km :: G	N/A :: TOA	
MIS03	High-Altitude Projected TOA Radiance	4309	Diner	W/m^2/µm/sr	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(2-9 day)	275 m - 1.1 km :: G	N/A :: TOA	
MIS03	Geometric Parameters (Ellipsoid Referenced)	4312	Diner	deg	0.1 deg ::	N/A	17.6 km :: G	N/A :: N/A	
MIS03	Surface-Projected TOA Radiance - Single Local Mode Scene	5298	Diner	W/m^2/µm/sr	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(2-9 day)	275 m :: R	N/A :: TOA	
MIS04	Reflecting Level Reference Altitude (RLRA), and cross- and along-track windspeed	1433	Diner	km	0.2 km ::	1/(2-9 day)	2.2 km :: G	N/A :: Trop	Also includes Cross and Along-Track Wind Speed
MIS04	Albedo (fine), TOA	2010	Diner	dimensionless	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(2-9 day)	2.2 km :: G	N/A :: TOA	
MIS04	Albedo-Coarse (restrictive, expansive), TOA	2011	Diner	dimensionless	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(2-9 day)	35.2 km :: G	N/A :: TOA	
MIS04	Reflectance Factor, Bidirectional, TOA	3729	Diner	dimensionless	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(2-9 day)	2.2 km :: G	N/A :: TOA	
MIS04	Cloud Mask, Angle-by-angle	3731	Diner	dimensionless	TBD :: TBD	1/(2-9 day)	1.1 km :: G	N/A :: TOA	
MIS04	Cloud Fraction, Altitude-Binned (Nadir)	3732	Diner	dimensionless	TBD :: TBD	1/(2-9 day)	17.6 km :: G	4 km :: Atmos	
MIS04	Texture Indices	3739	Diner	dimensionless	TBD :: TBD	1/(2-9 day)	2.2 km :: G	N/A :: TOA	
MIS04	Geometric Parameters (Ellipsoid Referenced)	4313	Diner	deg	0.1 deg ::	1/(2-9 day)	17.6 km :: G	N/A :: TOA	
MIS04	Post-launch Parameters - High Cloud Optical Depth	5304	Diner	dimensionless	TBD :: TBD	1/(2-9 day)	17.6 km :: G	N/A :: TOA	Post launch
MIS04	Post-launch Parameters - High Cloud Phase Function	5305	Diner	dimensionless	TBD :: TBD	1/(2-9 day)	17.6 km :: G	N/A :: TOA	Post launch
MIS04	Cloud Shadow Mask	6030	Diner	dimensionless	TBD :: TBD	1/(2-9 day)	1.1 km :: G	N/A :: Sfc	
MIS04	Ancillary Scene Information	6032	Diner	dimensionless	TBD :: TBD	1/(2-9 day)	17.6 km :: G	N/A :: Sfc	Contains Snow and Ice-cover, and Tropopause Height
MIS05	Optical Depth, Aerosol, Tropospheric	2299	Diner	dimensionless	Larger of 0.05, 10% ::	1/(2-9 day)	17.6 km :: G	Column :: Atmos	
MIS05	Reflectance Factor, Hemispheric Directional [HRDF]	3734	Diner	dimensionless	10% ::	1/(2-9 day)	1.1 km (L), 2.2 km (O) :: G	N/A :: Sfc	
MIS05	Reflectance, Bihemispheric [BHR]	3736	Diner	dimensionless	0.03 ::	1/(2-9 day)	1.1 km :: Land	N/A :: Sfc	

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MIS05	Geometric Parameters (Ellipsoid Referenced), Level-2 Aerosol Product	4314	Diner	deg	0.1 deg ::	1/(2-9 day)	17.6 km :: G	N/A :: N/A	
MIS05	Region Variability	4315	Diner	dimensionless	N/A	1/(2-9 day)	1.1 km :: G	N/A :: Sfc	
MIS05	Post-launch Parameters - Leaf Areas Index [LAI]	4317	Diner	dimensionless	:: 30%	1/(2-9 day)	1.1 km :: Land	N/A :: Sfc	Post launch
MIS05	Post-launch Parameters - FPAR	4318	Diner	dimensionless	:: 30%	1/(2-9 day)	1.1 km :: Land	N/A :: Sfc	Post launch
MIS05	Compositional Model Identifier	5302	Diner		N/A	1/(2-9 day)	17.6 km :: G	Trop :: Trop	
MIS05	Ancillary Data [RH, O3 Optical Depth, Stratospheric Aerosol optical Depth, etc.]	5303	Diner	varies	N/A	1/(2-9 day)	17.6 km :: G	N/A :: N/A	
MIS05	Geometric Parameters (Terrain Referenced), Level-2 Surface Product	5311	Diner	deg	0.1 deg ::	1/(2-9 day)	1.1 km :: Land	N/A :: N/A	
MIS05	Retrieval Residuals	6033	Diner		N/A ::	1/(2-9 day)	17.6 km :: G	Troposphere :: Troposphere	
MIS05	Tropospheric Aerosol Optical Depth Upper Bound	6034	Diner		N/A ::	1/(2-9 day)	17.6 km :: G	Troposphere :: Troposphere	
MIS05	Band-Differenced Optical Depth	6035	Diner		N/A ::	1/(2-9 day)	17.6 km :: G	Troposphere :: Troposphere	
MIS05	Retrieval Flags	6036	Diner		N/A ::	1/(2-9 day)	17.6 km :: G	Troposphere :: Troposphere	
MIS07	Reflectance Level Reference Altitude	1433A1	Diner	km	0.2 km ::	1/(9 day)	2.2 km :: G	N/A :: Trop	
MIS07	Albedo (fine), TOA	2010A1	Diner	dimensionless	0.03 ::	1/(9 day)	2.2 km :: G	N/A :: TOA	
MIS07	Albedo-Coarse (restrictive, expansive), TOA	2011A1	Diner	dimensionless	0.03 ::	1/(9 day)	35.2 km :: G	N/A :: TOA	
MIS07	Reflectance Factor, Bidirectional, TOA	3729A1	Diner	dimensionless	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(9 day)	2.2 km :: G	N/A :: TOA	
MIS07	Cloud Fraction, Altitude-Binned [Low, Mid, and High]	3732A1	Diner	dimensionless	TBD :: TBD	1/(9 day)	17.6 km :: G	4 km :: Atmos	
MIS07	Texture Indices [Angular Contrast]	3739A1	Diner	dimensionless	TBD :: TBD	1/(9 day)	2.2 km :: G	N/A :: Trop	
MIS07	Post-launch Parameters- High Cloud Optical Depth	5304A1	Diner	dimensionless	TBD :: TBD	1/(9 day)	17.6 km :: G	N/A :: TOA	Post launch
MIS07	Post-launch Parameters- High Cloud Optical Phase Function	5305A1	Diner	dimensionless	TBD :: TBD	1/(9 day)	17.6 km :: G	N/A :: TOA	Post launch
MIS07A1	Reflectance Level Reference Altitude	1433A2	Diner	km	0.2 km ::	1/(16 day)	2.2 km :: G	N/A :: Trop	
MIS07A1	Albedo (fine), TOA	2010A2	Diner	dimensionless	0.03 ::	1/(16 day)	2.2 km :: G	N/A :: TOA	
MIS07A1	Albedo-Coarse (restrictive, expansive), TOA	2011A2	Diner	dimensionless	0.03 ::	1/(16 day)	35.2 km :: G	N/A :: TOA	
MIS07A1	Reflectance Factor, Bidirectional, TOA	3729A2	Diner	dimensionless	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/(16 day)	2.2 km :: G	N/A :: TOA	
MIS07A1	Cloud Fraction, Altitude-Binned [Low, Mid, and High]	3732A2	Diner	dimensionless	TBD :: TBD	1/(16 day)	17.6 km :: G	4 km :: Atmos	
MIS07A1	Texture Indices [Angular Contrast]	3739A2	Diner	dimensionless	TBD :: TBD	1/(16 day)	2.2 km :: G	N/A :: Trop	
MIS07A1	Post-launch Parameters- High Cloud Optical Depth	5304A2	Diner	dimensionless	TBD :: TBD	1/(16 day)	17.6 km :: G	N/A :: TOA	Post launch
MIS07A1	Post-launch Parameters- High Cloud Optical Phase Function	5305A2	Diner	dimensionless	TBD :: TBD	1/(16 day)	17.6 km :: G	N/A :: TOA	Post launch
MIS07A2	Reflectance Level Reference Altitude	1433A3	Diner	km	0.2 km ::	1/mon	2.2 km :: G	N/A :: Trop	
MIS07A2	Albedo (fine), TOA	2010A3	Diner	dimensionless	0.03 ::	1/mon	2.2 km :: G	N/A :: TOA	
MIS07A2	Albedo-Coarse (restrictive, expansive), TOA	2011A3	Diner	dimensionless	0.03 ::	1/mon	35.2 km :: G	N/A :: TOA	
MIS07A2	Reflectance Factor, Bidirectional, TOA	3729A3	Diner	dimensionless	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/mon	2.2 km :: G	N/A :: TOA	
MIS07A2	Cloud Fraction, Altitude-Binned [Low, Mid, and High]	3732A3	Diner	dimensionless	TBD :: TBD	1/mon	17.6 km :: G	4 km :: Atmos	
MIS07A2	Texture Indices [Angular Contrast]	3739A3	Diner	dimensionless	TBD :: TBD	1/mon	2.2 km :: G	N/A :: Trop	

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MIS07A2	Post-launch Parameters- High Cloud Optical Depth	5304A3	Diner	dimensionless	TBD :: TBD	1/mon	17.6 km :: G	N/A :: TOA	Post launch
MIS07A2	Post-launch Parameters- High Cloud Optical Phase Function	5305A3	Diner	dimensionless	TBD :: TBD	1/mon	17.6 km :: G	N/A :: TOA	Post launch
MIS07A3	Reflectance Level Reference Altitude	1433A4	Diner	km	0.2 km ::	1/seas	2.2 km :: G	N/A :: Trop	
MIS07A3	Albedo (fine), TOA	2010A4	Diner	dimensionless	0.03 ::	1/seas	2.2 km :: G	N/A :: TOA	
MIS07A3	Albedo-Coarse (restrictive, expansive), TOA	2011A4	Diner	dimensionless	0.03 ::	1/seas	35.2 km :: G	N/A :: TOA	
MIS07A3	Reflectance Factor, Bidirectional, TOA	3729A4	Diner	dimensionless	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/seas	2.2 km :: G	N/A :: TOA	
MIS07A3	Cloud Fraction, Altitude-Binned [Low, Mid, and High]	3732A4	Diner	dimensionless	TBD :: TBD	1/seas	17.6 km :: G	4 km :: Atmos	
MIS07A3	Texture Indices [Angular Contrast]	3739A4	Diner	dimensionless	TBD :: TBD	1/seas	2.2 km :: G	N/A :: Trop	
MIS07A3	Post-launch Parameters- High Cloud Optical Depth	5304A4	Diner	dimensionless	TBD :: TBD	1/seas	17.6 km :: G	N/A :: TOA	Post launch
MIS07A3	Post-launch Parameters- High Cloud Optical Phase Function	5305A4	Diner	dimensionless	TBD :: TBD	1/seas	17.6 km :: G	N/A :: TOA	Post launch
MIS07A4	Reflectance Level Reference Altitude	1433A5	Diner	km	0.2 km ::	1/yr	2.2 km :: G	N/A :: Trop	
MIS07A4	Albedo (fine), TOA	2010A5	Diner	dimensionless	0.03 ::	1/yr	2.2 km :: G	N/A :: TOA	
MIS07A4	Albedo-Coarse (restrictive, expansive), TOA	2011A5	Diner	dimensionless	0.03 ::	1/yr	35.2 km :: G	N/A :: TOA	
MIS07A4	Reflectance Factor, Bidirectional, TOA	3729A5	Diner	dimensionless	3% :: 1% (@ equivalent reflectance of 1.0), 6% :: 2% (@ 0.05)	1/yr	2.2 km :: G	N/A :: TOA	
MIS07A4	Cloud Fraction, Altitude-Binned [Low, Mid, and High]	3732A5	Diner	dimensionless	TBD :: TBD	1/yr	17.6 km :: G	4 km :: Atmos	
MIS07A4	Texture Indices [Angular Contrast]	3739A5	Diner	dimensionless	TBD :: TBD	1/yr	2.2 km :: G	N/A :: Trop	
MIS07A4	Post-launch Parameters- High Cloud Optical Depth	5304A5	Diner	dimensionless	TBD :: TBD	1/yr	17.6 km :: G	N/A :: TOA	Post launch
MIS07A4	Post-launch Parameters- High Cloud Optical Phase Function	5305A5	Diner	dimensionless	TBD :: TBD	1/yr	17.6 km :: G	N/A :: TOA	Post launch
MIS08	Optical Depth, Aerosol, Tropospheric	2299A1	Diner	dimensionless	Larger of 0.05, 10% ::	1/(9 day)	17.6 km :: G	Column :: Atmos	
MIS08	Compositional Model Identifier	5302A1	Diner		N/A	1/(9 day)	17.6 km :: G	Trop :: Trop	
MIS08A1	Optical Depth, Aerosol, Tropospheric	2299A2	Diner	dimensionless	Larger of 0.05, 10% ::	1/(16 day)	17.6 km :: G	Column :: Atmos	
MIS08A1	Compositional Model Identifier	5302A2	Diner		N/A	1/(16 day)	17.6 km :: G	Trop :: Trop	
MIS08A2	Optical Depth, Aerosol, Tropospheric	2299A3	Diner	dimensionless	Larger of 0.05, 10% ::	1/mon	17.6 km :: G	Column :: Atmos	
MIS08A2	Compositional Model Identifier	5302A3	Diner		N/A	1/mon	17.6 km :: G	Trop :: Trop	
MIS08A3	Optical Depth, Aerosol, Tropospheric	2299A4	Diner	dimensionless	Larger of 0.05, 10% ::	1/seas	17.6 km :: G	Column :: Atmos	
MIS08A3	Compositional Model Identifier	5302A4	Diner		N/A	1/seas	17.6 km :: G	Trop :: Trop	
MIS08A4	Optical Depth, Aerosol, Tropospheric	2299A5	Diner	dimensionless	Larger of 0.05, 10% ::	1/yr	17.6 km :: G	Column :: Atmos	
MIS08A4	Compositional Model Identifier	5302A5	Diner		N/A	1/yr	17.6 km :: G	Trop :: Trop	
MIS09	Reflectance Factor, Hemispheric Directional [HRDF]	3734A1	Diner	dimensionless	10% ::	1/(9 day)	1.1 km :: Land	N/A :: Sfc	
MIS09	Reflectance, Bihemispheric [BHR]	3736A1	Diner	dimensionless	0.03 ::	1/(9 day)	1.1 km :: Land	N/A :: Sfc	
MIS09A1	Reflectance Factor, Hemispheric Directional [HRDF]	3734A2	Diner	dimensionless	10% ::	1/(16 day)	1.1 km :: Land	N/A :: Sfc	
MIS09A1	Reflectance, Bihemispheric [BHR]	3736A2	Diner	dimensionless	0.03 ::	1/(16 day)	1.1 km :: Land	N/A :: Sfc	
MIS09A2	Reflectance Factor, Hemispheric Directional [HRDF]	3734A3	Diner	dimensionless	10% ::	1/mon	1.1 km :: Land	N/A :: Sfc	
MIS09A2	Reflectance, Bihemispheric [BHR]	3736A3	Diner	dimensionless	0.03 ::	1/mon	1.1 km :: Land	N/A :: Sfc	
MIS09A3	Reflectance Factor, Hemispheric Directional [HRDF]	3734A4	Diner	dimensionless	10% ::	1/seas	1.1 km :: Land	N/A :: Sfc	
MIS09A3	Reflectance, Bihemispheric [BHR]	3736A4	Diner	dimensionless	0.03 ::	1/seas	1.1 km :: Land	N/A :: Sfc	
MIS09A4	Reflectance Factor, Hemispheric Directional [HRDF]	3734A5	Diner	dimensionless	10% ::	1/yr	1.1 km :: Land	N/A :: Sfc	
MIS09A4	Reflectance, Bihemispheric [BHR]	3736A5	Diner	dimensionless	0.03 ::	1/yr	1.1 km :: Land	N/A :: Sfc	

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
MIS10	Geographic Latitude	4319	Diner	deg	100 m ::	1/mission (possible 1/yr update)	1.1 km :: G	N/A :: Sfc	SCF generated
MIS10	Geographic Longitude	4320	Diner	deg	100 m ::	1/mission (possible 1/yr update)	1.1 km :: G	N/A :: Sfc	SCF generated
MIS10	Scene Elevation	4321	Diner	m	30 m ::	1/mission (possible 1/yr update)	1.1 km :: G	N/A :: Sfc	SCF generated
MIS10	Surface-normal Zenith Angle	4322	Diner	deg	0.1 deg ::	1/mission (possible 1/yr update)	1.1 km :: G	N/A :: N/A	SCF generated
MIS10	Surface-normal Azimuth Angle	4323	Diner	deg	0.1 deg ::	1/mission (possible 1/yr update)	1.1 km :: G	N/A :: N/A	SCF generated
MIS10	Elevation Standard Deviation	5321	Diner	m	N/A	1/mission (possible 1/yr update)	1.1 km :: G	N/A :: Sfc	SCF generated
MIS10	Land/water Identifier	5322	Diner		N/A	1/mission (possible 1/yr update)	1.1 km :: G	N/A :: Sfc	SCF generated
MIS10	Topographic shadow Mask	5323	Diner		N/A	1/mission (possible 1/yr update)	1.1 km :: Land	N/A :: Sfc	SCF generated
MIS10	Surface-normal Zenith Angle Standard Deviation	6037	Diner	deg	0.1 deg ::	1/mission (possible 1/yr update)	1.1 km :: G	N/A :: N/A	SCF generated
MIS10	Topographic Obscuration Mask	6038	Diner		N/A ::	1/mission (possible 1/yr update)	1.1 km :: Land	N/A :: N/A	SCF generated
MIS11	Date Range	5326	Diner		N/A	1/mon	N/A :: N/A	N/A :: N/A	SCF generated
MIS11	Radiometric Calibration Coefficients	5327	Diner	W/m^2/µm/sr/DN (gain); DN (offset)	N/A	1/mon	N/A :: N/A	N/A :: N/A	SCF generated
MIS11	Camera Calibration Uncertainty	5328	Diner	%	N/A	1/mon	N/A :: N/A	N/A :: N/A	SCF generated
MIS11	Coherent Noise Frequencies	5329	Diner	cycle/nm	TBD ::	1/mon	N/A :: N/A	N/A :: N/A	SCF generated
MIS11	Dead Pixel Mask	5330	Diner		N/A	1/mon	N/A :: N/A	N/A :: N/A	SCF generated
MIS11	Spectral Band Parameters	5331	Diner	nm	0.1 nm ::	1/mon	N/A :: N/A	N/A :: N/A	SCF generated
MIS11	IFOV Parameters	5332	Diner	rad^2	TBD ::	1/mon	N/A :: N/A	N/A :: N/A	SCF generated
MIS11	Exo-atmospheric Spectral Solar Irradiances	5333	Diner	W/m^2/µm	N/A	1/mon	N/A :: N/A	N/A :: N/A	SCF generated
MIS11	Clear-sky Coefficients and Thresholds	6039	Diner		N/A ::	1/mon	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Aerosol Model Identifier	5336	Diner		N/A	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Relative Humidity	5337	Diner	%	10% ::	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Complex Refractive Index	5338	Diner		N/A	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Scattering and Extinction Cross-sections	5339	Diner	µm	N/A	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Phase Function	5342	Diner	/sr	N/A	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Particle Shape Identifier	5343	Diner		N/A	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Water Activity Identifier	5344	Diner		N/A	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Particle Density	6040	Diner	g/cm^3	N/A ::	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Particle Size Distribution Parameters	6041	Diner	various	N/A ::	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Single Scattering Albedo	6042	Diner		N/A ::	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MIS12	Scattering Anisotropy Parameter	6043	Diner	/sr	N/A ::	1/mission (possible 1/yr update)	N/A :: N/A	N/A :: N/A	SCF generated
MLS01	Level-1A Radiance, MLS	4327	Waters	K	<3% :: <3%	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 0-80 km	
MLS02	Level-1B Radiance, MLS	2388	Waters	K	<3% :: <3%	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 0-80 km	
MLS03	BrO Conc	1030	Waters	mixing ratio					
MLS03	ClO Conc	1107	Waters	mixing ratio					
MLS03	HCl Conc	1189	Waters	mixing ratio					
MLS03	HNO3 Conc	1203	Waters	mixing ratio					

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
MLS03	HO2 Conc	1216	Waters	mixing ratio					
MLS03	HOCl Conc	1222	Waters	mixing ratio					
MLS03	N2O Conc	1240	Waters	mixing ratio					
MLS03	NO Conc	1266	Waters	mixing ratio					
MLS03	O3 Conc	1319	Waters	mixing ratio					
MLS03	SO2 Conc	1369	Waters	mixing ratio					
MLS03	Pressure	1525	Waters	mb					
MLS03	Temperature Profile	1609	Waters	K					
MLS03	H2O Conc	1838	Waters	mixing ratio					
MLS03	OH Conc	3764	Waters	mixing ratio					
MLS03	Geopotential Height	3765	Waters	m					
MLS04	O3 Conc	1319A1	Waters	mixing ratio	<5% :: 5x10-11 - 1x10-7	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: TPSE-60 km	
MLS05	ClO Conc	1107A1	Waters	mixing ratio	<5% :: 1x10-10 - 5x10-10	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: TPSE-60 km	
MLS06	BrO Conc	1030A1	Waters	mixing ratio	<5% :: 5x10-12 (z.m.)	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 25-40 km	
MLS07	HCl Conc	1189A1	Waters	mixing ratio	<5% :: 1x10-10 - 1x10-9	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: TPSE-80 km	
MLS08	HOCl Conc	1222A1	Waters	mixing ratio	<5% :: 5x10-11 (z.m.)	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 23-40 km	
MLS09	OH Conc	3764A1	Waters	mixing ratio	<5% :: 1x10-13 - 1x10-10	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 15-80 km	
MLS10	HO2 Conc	1216A1	Waters	mixing ratio	<5% :: 5x10-11 (z.m.)	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 28-80 km	
MLS11	H2O Conc	1838A1	Waters	mixing ratio	<5% :: 1-10%	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 5-80 km	
MLS12	NO Conc	1266A1	Waters	mixing ratio	<5% :: 5x10-9 - 1x10-7 (z.m.)	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 20-80 km	
MLS13	HNO3 Conc	1203A1	Waters	mixing ratio	<5% :: 1x10-10 - 5x10-10	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: TPSE-45 km	
MLS14	N2O Conc	1240A1	Waters	mixing ratio	<5% :: 1x10-9 - 1x10-8	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: TPSE-50 km	
MLS15	SO2 Conc	1369A1	Waters	mixing ratio	<5% :: 1x10-9 - 5x10-9	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: TPSE-50 km	
MLS16	Temperature Profile	1609A1	Waters	K	<5K :: 1-3K	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 5-80 km	
MLS17	Pressure	1525A1	Waters	mb	3% :: 1-5%	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 5-80 km	
MLS18	Geopotential Height	3765A1	Waters	m	TBD	2/day	1.3 x 2.5 deg :: 82N-82S	2 km :: 5-80 km	
MOD01	Level-1A Radiance, MODIS	3708	Salomonson		::		0.25, 0.5, 1 km :: G	::	
MOD02	Level-1B Radiance, Calibrated Geolocated, MODIS	2338	Salomonson, Guenther	W/m^2/sr/µm	5%(1 sigma) ::	1/day	0.25, 0.5, 1 km :: G	N/A :: N/A	
MOD03	Latitude Geodetic	4336	Salomonson	deg				::	
MOD03	Longitude Geodetic	4337	Salomonson	deg				::	
MOD03	Ground Elevation	4338	Salomonson	m				::	
MOD03	Solar Zenith Angle	4339	Salomonson	deg				::	
MOD03	Satellite Zenith Angle	4340	Salomonson	deg				::	
MOD03	Relative Azimuth Angle	4341	Salomonson	deg				::	
MOD03	Azimuth from True North	4342	Salomonson	deg				::	
MOD03	TBD Parameter-1	6097						::	
MOD03	TBD Parameter-2	6098						::	
MOD03	TBD Parameter-3	6099						::	
MOD04	Aerosol Size-distribution (Radius-Dispersion)	1022	Tanre, Kaufman	µm, dimensionless	30-50% :: 30-50%	1/day	5 km :: Ocean	N/A :: Atmos	
MOD04	Aerosol Optical Depth, Spectral	2293	Kaufman, Tanre	dimensionless	0.05 :: 0.02 (Ocean), 0.1 :: 0.04(Land)	1/day	50 km :: Land; 5 km :: Ocean	N/A :: Atmos	
MOD04A1	Aerosol Size-distribution (Radius-Dispersion), Gridded	1022A1	Tanre, Kaufman	µm, dimensionless	30-50% :: 30-50%	1/day	5 x 5 km :: Ocean	N/A :: Atmos	
MOD04A1	Aerosol Optical Depth, Spectral, Gridded	2293A1	Kaufman, Tanre	dimensionless	0.05 :: 0.02 (Ocean), 0.1 :: 0.04(Land)	1/day	50 x 50 km :: Land; 5 x 5 km :: Ocean	N/A :: Atmos	
MOD04A2	Aerosol Size-distribution (Radius-Dispersion), Gridded	1022A2	Tanre, Kaufman	µm, dimensionless	30-50% :: 30-50%	1/wk	5 x 5 km :: Ocean	N/A :: Atmos	
MOD04A2	Aerosol Optical Depth, Spectral, Gridded	2293A2	Kaufman, Tanre	dimensionless	0.05 :: 0.02 (Ocean), 0.1 :: 0.04(Land)	1/wk	50 x 50 km :: Land; 5 x 5 km :: Ocean	N/A :: Atmos	
MOD04A3	Aerosol Size-distribution (Radius-Dispersion), Gridded	1022A3	Tanre, Kaufman	µm, dimensionless	30-50% :: 30-50%	1/mon	5 x 5 km :: Ocean	N/A :: Atmos	
MOD04A3	Aerosol Optical Depth, Spectral, Gridded	2293A3	Kaufman, Tanre	dimensionless	0.05 :: 0.02 (Ocean), 0.1 :: 0.04(Land)	1/mon	50 x 50 km :: Land; 5 x 5 km :: Ocean	N/A :: Atmos	
MOD05	Precipitable Water, Near IR	1874	Kaufman, Tanre		10-20% :: 6% (NIR),12%(LWIR)	1/day	5 km :: Land	N/A :: Atmos	
MOD06	Cloud Height, Top	1528	Menzel	mbar	50 mb :: 25 mb	2/day	0.5 deg :: G	N/A :: Cloud	

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
MOD06	Cloud Particle Phase [King-Algorithm]	1764	King	water/ice	90% Conf :: 90% Conf	2/day	5 km :: G	N/A :: Cloud	Cloud phase parameters are produced by two different algorithms (King, Menzel).
MOD06	Cloud Particle Size (Effective Radius)	1780	King	µm	20% :: 5%	2/day	5 km :: G	N/A :: Cloud	
MOD06	Cloud Cover	2081	Menzel, King	%	5% :: 3%	2/day	5 km :: G	N/A :: Cloud	
MOD06	Cloud Optical Depth	2311	King	dimensionless	10% :: 5%	2/day	5 km :: G	N/A :: Cloud	
MOD06	Cloud Particle Phase [Menzel Algorithm]	5351	Menzel	water/ice	90% Conf :: 90% Conf	2/day	5 km :: G	N/A :: Cloud	Cloud phase parameters are produced by two different algorithms (King, Menzel).
MOD06	Cloud Emissivity, Top	5352	Menzel	dimensionless		2/day	0.5 deg :: G	N/A :: Cloud	
MOD06	Cloud Temperature, Top	5353	Menzel	C		2/day	0.5 deg :: G	N/A :: Cloud	
MOD06	TBD (Spare)	6100							
MOD06A1	Cloud Height, Top, Gridded	1528A1	Menzel	mbar	50 mb :: 25 mb	1/mon	0.5 x 0.5 deg :: G	N/A :: Cloud	
MOD06A1	Cloud Particle Phase, Gridded [King-Algorithm]	1764A1	King	water/ice	90% Conf :: 90% Conf	1/mon	5 x 5 km :: G	N/A :: Cloud	Cloud phase parameters are produced by two different algorithms (King, Menzel).
MOD06A1	Cloud Particle Size (Effective Radius), Gridded	1780A1	King	µm	20% :: 5%	1/mon	5 x 5 km :: G	N/A :: Cloud	
MOD06A1	Cloud Cover, Gridded	2081A1	Menzel, King	%	5% :: 3%	1/mon	5 x 5 km :: G	N/A :: Cloud	
MOD06A1	Cloud Optical Depth, Gridded	2311A1	King	dimensionless	10% :: 5%	1/mon	5 x 5 km :: G	N/A :: Cloud	
MOD06A1	Cloud Particle Phase, Gridded [Menzel Algorithm]	5351A1	Menzel	water/ice	90% Conf :: 90% Conf	1/mon	5 x 5 km :: G	N/A :: Cloud	Cloud phase parameters are produced by two different algorithms (King, Menzel).
MOD06A1	Cloud Emissivity, Top, Gridded	5352A1	Menzel	dimensionless		1/mon	0.5 x 0.5 deg :: G	N/A :: Cloud	
MOD06A1	Cloud Temperature, Top, Gridded	5353A1	Menzel	C		1/mon	0.5 x 0.5 deg :: G	N/A :: Cloud	
MOD06A1	TBD (Spare)	6100A1							
MOD07	O3 Total Burden	1333	Menzel	DU	30DU :: 20DU	2/day	0.5 deg :: G	Column :: Atmos	
MOD07A1	O3 Total Burden, Gridded	1333A1	Menzel	DU	30DU :: 20DU	1/mon	0.5 x 0.5 deg :: G	Column :: Atmos	
MOD08	Stability (Lifted Index), Atmospheric	1559	Menzel			2/day	0.5 deg :: G	N/A :: Atmos	
MOD08A1	Stability (Lifted Index), Atmospheric, Gridded	1559A1	Menzel			1/mon	0.5 x 0.5 deg :: G	N/A :: Atmos	
MOD09	Surface Reflectance	2015	Kaufman, Tanre, Justice	dimensionless; W/m^2/sr/µm	10% ::	1/day	0.25, 0.5 km :: Land	N/A :: Sfc	
MOD09A1	Albedo, Spectral, Land_sfc, Gridded (Without Topography)	3665	Muller, Strahler	fraction	10% ::	1/(16 day)	1 x 1 km :: Land/R	N/A :: Sfc	
MOD09A1	Bidirectional Reflectance, Gridded (Without Topography)	3669	Muller, Strahler	fraction	15% ::	1/(16 day)	1 x 1 km :: Land/R	N/A :: Sfc	
MOD09A1	Bidirectional Reflectance, Gridded (With Topography)	4332	Muller, Strahler	fraction	5% :: 2%	1/(16 day)	1 x 1 km :: Land	N/A :: Sfc	
MOD09A1	Albedo, Spectral, Land_sfc, Gridded (With Topography)	4333	Muller, Strahler	fraction	3% :: 1 %	1/(16 day)	1 x1 km :: Land	N/A :: Sfc	
MOD10	Snow Cover	3020	Salomonson, Hall	km^2	10% ::	1/day	1 km :: Land	N/A :: Sfc	
MOD10A1	Snow Cover, Gridded	3020A1	Salomonson, Hall	km^2	10% ::	1/day	1 x 1 km :: Land	N/A :: Sfc	
MOD11	Land_sfc Temperature	2484	Wan	C	1-4 C ::	1/day	1 km :: Land/G	N/A :: Sfc	
MOD11	Land_sfc Emissivity	3323	Wan	dimensionless	0.02-0.5 :: 0.005-0.02	1/day	1 km :: Land/G	N/A :: Sfc	
MOD11A1	Land_sfc Temperature, Gridded	2484A1	Wan	C	1-4 C ::	1/wk	1 x 1 km :: Land/G	N/A :: Sfc	
MOD11A1	Land_sfc Emissivity, Gridded	3323A1	Wan	dimensionless	0.02-0.5 :: 0.005-0.02	1/wk	1 x 1 km :: Land/G	N/A :: Sfc	
MOD11A2	Land_sfc Temperature, Gridded	2484A2	Wan	C	1-4 C ::	1/mon	1 x 1 km :: Land/G	N/A :: Sfc	
MOD11A2	Land_sfc Emissivity, Gridded	3323A2	Wan	dimensionless	0.02-0.5 :: 0.005-0.02	1/mon	1 x 1 km :: Land/G	N/A :: Sfc	
MOD12	Land_Cover Type, Gridded	2669	Strahler, Huete		10% ::	1/(96 day)	1 x 1 km :: Land	N/A :: Sfc	
MOD12	Land_Cover Change, Gridded	2761	Strahler, Huete	fraction	10% ::	1/(96 day)	1 x 1 km :: Land	N/A :: Sfc	
MOD12A1	Land_Cover Type, Gridded	2669A1	Strahler, Huete		10% ::	1/(32 day)	1 x 1 km :: Land	N/A :: Sfc	
MOD12A1	Land_Cover Change, Gridded	2761A1	Strahler, Huete	fraction	10% ::	1/(32 day)	1 x 1 km :: Land	N/A :: Sfc	
MOD13	Vegetation Indices, NDVI	2749	Justice, Huete	dimensionless	0.05 ::	1/day	0.25, 0.5 km :: Land	N/A :: Sfc	
MOD13	Vegetation Indices, MVI	4334	Justice, Huete	dimensionless	0.05 ::	1/day	0.25, 0.5 km :: Land	N/A :: Sfc	
MOD14	Fire Occurrence	2471	Kaufman, Justice			1/day	1 km :: Land/R	N/A :: Sfc	
MOD14	Emitted Energy from Fire	5363	Kaufman, Justice			1/day	1 km :: Land/R	N/A :: Sfc	
MOD14	Smoldering/Flaming Ratio	5364	Kaufman, Justice			1/day	1 km :: Land/R	N/A :: Sfc	

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
MOD14	Fire Size	5365	Kaufman, Justice			1/day	1 km :: Land/R	N/A :: Sfc	
MOD14	Fire Temperature	5366	Kaufman, Justice	K	2-10 K ::	1/day	1 km :: Land/R	N/A :: Sfc	
MOD14A1	Fire Occurrence, Gridded	2471A1	Kaufman, Justice			1/day	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A1	Emitted Energy from Fire, Gridded	5363A1	Kaufman, Justice			1/day	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A1	Smoldering/Flaming Ratio, Gridded	5364A1	Kaufman, Justice			1/day	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A1	Fire Size, Gridded	5365A1	Kaufman, Justice			1/day	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A1	Fire Temperature, Gridded	5366A1	Kaufman, Justice	K	2-10 K ::	1/day	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A2	Fire Occurrence, Gridded	2471A2	Kaufman, Justice			1/(10 day)	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A2	Emitted Energy from Fire, Gridded	5363A2	Kaufman, Justice			1/(10 day)	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A2	Smoldering/Flaming Ratio, Gridded	5364A2	Kaufman, Justice			1/(10 day)	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A2	Fire Size, Gridded	5365A2	Kaufman, Justice			1/(10 day)	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A2	Fire Temperature, Gridded	5366A2	Kaufman, Justice	K	2-10 K ::	1/(10 day)	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A3	Fire Occurrence, Gridded	2471A3	Kaufman, Justice			1/mon	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A3	Emitted Energy from Fire, Gridded	5363A3	Kaufman, Justice			1/mon	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A3	Smoldering/Flaming Ratio, Gridded	5364A3	Kaufman, Justice			1/mon	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A3	Fire Size, Gridded	5365A3	Kaufman, Justice			1/mon	1 x 1 km :: Land/R	N/A :: Sfc	
MOD14A3	Fire Temperature, Gridded	5366A3	Kaufman, Justice	K	2-10 K ::	1/mon	1 x 1 km :: Land/R	N/A :: Sfc	
MOD15	Leaf Areas (LAI)	2680	Running	dimensionless	25% ::	1/(10 day)	1 x 1 km :: Land	N/A :: N/A	
MOD15	FPAR	5367	Running	dimensionless	25% ::	1/(10 day)	1 x 1 km :: Land	N/A :: N/A	
MOD16	Evapotranspiration	3722	Running		25% ::	1/(10 day)	0.5 x 0.5 km :: Land	N/A :: N/A	
MOD16	Surface Resistance	4335	Running		25% ::	1/(10 day)	0.5 x 0.5 km :: Land	N/A :: N/A	
MOD17	Vegetation Production, Net Primary (NPP), Gridded	2703	Running	gC/m^2/yr	35% ::	1/(10 day)	1 x 1 km :: Land	N/A :: N/A	
MOD17	Photosynthesis-Respiration, Gridded	3716	Running	gC/m^2/day	25% ::	1/(10 day)	1 x 1 km :: Land	N/A :: N/A	
MOD17A1	Vegetation Production, Net Primary (NPP), Gridded	2703A1	Running	gC/m^2/yr	35% ::	1/yr	1 x 1 km :: Land	N/A :: N/A	
MOD17A1	Photosynthesis-Respiration, Gridded	3716A1	Running	gC/m^2/day	25% ::	1/yr	1 x 1 km :: Land	N/A :: N/A	
MOD18	Level-2 Radiance, Water-leaving	2416	Gordon, et al	mW/cm^2/sr/µm	5-10% :: 5% (clear water 443 nm)	1/day	1 km :: Ocean/R,L	N/A :: Sfc	
MOD18A1	Level-2 Radiance, Water-leaving, Gridded	2416A1	Gordon, et al	mW/cm^2/sr/µm	5-10% :: 5% (clear water 443 nm)	1/day	1 x 1 km :: Ocean/R,L	N/A :: Sfc	
MOD18A2	Level-2 Radiance, Water-leaving, Gridded	2416A2	Gordon, et al	mW/cm^2/sr/µm	5-10% :: 5% (clear water 443 nm)	1/wk	1 x 1 km :: Ocean/R,L	N/A :: Sfc	
MOD19	Pigment Conc	2591	Gordon, Clark, Esaias	mg/m^3	100% (Global), 35% (Case I, Clear Atmos) :: TBD	1/day	1 km :: Ocean/G,R,L	N/A ::	
MOD19A1	Pigment Conc, Gridded	2591A1	Gordon, Clark, Esaias	mg/m^3	100% (Global), 35% (Case I, Clear Atmos) :: TBD	1/day	1 x 1 km :: Ocean/G,R,L	N/A ::	
MOD19A2	Pigment Conc, Gridded	2591A2	Gordon, Clark, Esaias	mg/m^3	100% (Global), 35% (Case I, Clear Atmos) :: TBD	1/wk	20 x 20 km :: Ocean/G,R,L	N/A ::	
MOD20	Chlorophyll Fluorescence Line Curv	2573	Hoge	mW/cm^2/sr/µm	25% ::	1/day	1 km :: Ocean/R,G	N/A ::	
MOD20	Chlorophyll Fluorescence Line Height	2575	Abbott, Evans	mW/cm^2/sr/µm	.004 W/m^2/sr ::	1/day	1 km :: Ocean/G,R,L	N/A ::	
MOD20	Chlorophyll Fluorescence Efficiency	3211	Abbott	mW/cm^2/sr/µm/mg-Chl/m^3		1/day	1 km :: Ocean/R,L	N/A ::	
MOD20A1	Chlorophyll Fluorescence Line Curv, Gridded	2573A1	Hoge	mW/cm^2/sr/µm	25% ::	1/day	1 x 1 km :: Ocean/R,G	N/A ::	
MOD20A1	Chlorophyll Fluorescence Line Height, Gridded	2575A1	Abbott, Evans	mW/cm^2/sr/µm	.004 W/m^2/sr ::	1/day	1 x 1 km :: Ocean/G,R,L	N/A ::	
MOD20A1	Chlorophyll Fluorescence Efficiency, Gridded	3211A1	Abbott	mW/cm^2/sr/µm/mg-Chl/m^3		1/day	1 x 1 km :: Ocean/R,L	N/A ::	
MOD20A2	Chlorophyll Fluorescence Line Curv, Gridded	2573A2	Hoge	mW/cm^2/sr/µm	25% ::	1/wk	20 x 20 km :: Ocean/R,G	N/A ::	
MOD20A2	Chlorophyll Fluorescence Line Height, Gridded	2575A2	Abbott, Evans	mW/cm^2/sr/µm	.004 W/m^2/sr ::	1/wk	4 x 4 km :: Ocean/G,R,L	N/A ::	
MOD20A2	Chlorophyll Fluorescence Efficiency, Gridded	3211A2	Abbott	mW/cm^2/sr/µm/mg-Chl/m^3		1/wk	1 x 1 km :: Ocean/R,L	N/A ::	
MOD21	Chlorophyll_a Pigment Conc, Case II	2569	Carder	mg/m^3	50%(0.05<[Chl]<1 ::	1/day	1 km :: Ocean-II/ R	N/A ::	

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
MOD21	Chlorophyll_a Pigment Conc, Case I	2571	Clark	mg/m^3	30%(0.1< [Chl]<1), 60%(1<[Chl]<10), TBD([Chl]>10) ::	1/day	1 km :: Ocean-I/ L	N/A ::	
MOD21A1	Chlorophyll_a Pigment Conc, Case II, Gridded	2569A1	Carder	mg/m^3	50%(0.05<[Chl]<1 ::	1/day	1 x 1 km :: Ocean-II/ R	N/A ::	
MOD21A1	Chlorophyll_a Pigment Conc, Case I, Gridded	2571A1	Clark	mg/m^3	30%(0.1< [Chl]<1), 60%(1<[Chl]<10), TBD([Chl]>10) ::	1/day	1 x 1 km :: Ocean-I/ L	N/A ::	
MOD21A2	Chlorophyll_a Pigment Conc, Case II, Gridded	2569A2	Carder	mg/m^3	50%(0.05<[Chl]<1 ::	1/wk	1 x 1 km :: Ocean-II/ R	N/A ::	
MOD21A2	Chlorophyll_a Pigment Conc, Case I, Gridded	2571A2	Clark	mg/m^3	30%(0.1< [Chl]<1), 60%(1<[Chl]<10), TBD([Chl]>10) ::	1/wk	1 x 1 km :: Ocean-I/ L	N/A ::	
MOD22	PAR, Sfc (IPAR) and Incident (IPAR)	2266	Carder, Tanre	quanta/m^2/sec	5% ::	1/day	1 km :: Ocean	N/A :: Sfc	
MOD22	PAR, Daily	2330	Esaias	W/m^2/day	10% ::	1/day	N/A :: G	N/A :: Atmos	
MOD22	Downwelling Irradiance, Sea_sfc	5354	Carder	W/m^2		1/day	1 km :: Ocean	N/A :: Sfc	
MOD22A1	PAR, Sfc (IPAR) and Incident (IPAR), Gridded	2266A1	Carder, Tanre	quanta/m^2/sec	5% ::	1/day	1 x 1 km :: Ocean	N/A :: Sfc	
MOD22A1	PAR, Daily, Gridded	2330A1	Esaias	W/m^2/day	10% ::	1/day	N/A :: G	N/A :: Atmos	
MOD22A1	Downwelling Irradiance, Sea_sfc, Gridded	5354A1	Carder	W/m^2		1/day	1 x 1 km :: Ocean	N/A :: Sfc	
MOD22A2	PAR, Sfc (IPAR) and Incident (IPAR), Gridded	2266A2	Carder, Tanre	quanta/m^2/sec	5% ::	1/wk	1 x 1 km :: Ocean	N/A :: Sfc	
MOD22A2	PAR, Weekly, Gridded	2330A2	Esaias	W/m^2/day	10% ::	1/wk	N/A :: G	N/A :: Atmos	
MOD22A2	Downwelling Irradiance, Sea_sfc, Gridded	5354A2	Carder	W/m^2		1/wk	1 x 1 km :: Ocean	N/A :: Sfc	
MOD23	Suspended-Solids Conc, Ocean Water	3085	Clark	g/m^3	50% ::	1/day	1 km :: Ocean/G,R,L	N/A ::	
MOD23A1	Suspended-Solids Conc, Ocean Water, Gridded	3085A1	Clark	g/m^3	50% ::	1/day	1 x 1 km :: Ocean/G,R,L	N/A ::	
MOD23A2	Suspended-Solids Conc, Ocean Water, Gridded	3085A2	Clark	g/m^3	50% ::	1/wk	20 x 20 km :: Ocean/G,R,L	N/A ::	
MOD24	Organic Matter Conc, Dissolved	2580	Carder, Parslow	g/m^3	40%(open ocean best case), 100%(coastal for [Chl]<1) ::	1/day	1 km :: Ocean/R	N/A ::	
MOD24	Organic Matter Conc, Particulate	2608	Clark	mg/m^3	TBD :: TBD	1/day	20 km :: Ocean	N/A ::	
MOD24A1	Organic Matter Conc, Dissolved, Gridded	2580A1	Carder, Parslow	g/m^3	40%(open ocean best case), 100%(coastal for [Chl]<1) ::	1/day	1 x 1 km :: Ocean/R	N/A ::	
MOD24A1	Organic Matter Conc, Particulate, Gridded	2608A1	Clark	mg/m^3	TBD :: TBD	1/day	20 x 20 km :: Ocean	N/A ::	
MOD24A2	Organic Matter Conc, Dissolved, Gridded	2580A2	Carder, Parslow	g/m^3	40%(open ocean best case), 100%(coastal for [Chl]<1) ::	1/wk	20 x 20 km :: Ocean/R	N/A ::	
MOD24A2	Organic Matter Conc, Particulate, Gridded	2608A2	Clark	mg/m^3	TBD :: TBD	1/wk	20 x 20 km :: Ocean	N/A ::	
MOD25	Coccolith Conc, Detached	2577	Gordon	number/ml	25000/ml (10-20%) ::	1/day	1 km :: Ocean/G,R,L	N/A ::	
MOD25	Calcite Conc, Estimated	5355	Gordon	mg-CaCO3/cm^3		1/day	1 km :: Ocean/G,R,L	N/A ::	
MOD25	Pigment Conc (in Coccolithophore Blooms)	5356	Gordon	mg/m^3		1/day	1 km :: Ocean/G,R,L	N/A ::	
MOD25	Lookup Table Descriptor	5357	Gordon			1/day	1 km :: Ocean/G,R,L	N/A ::	
MOD25	Quality Measure	5358	Gordon			1/day	1 km :: Ocean/G,R,L	N/A ::	
MOD25A1	Coccolith Conc, Detached, Gridded	2577A1	Gordon	number/ml	25000/ml (10-20%) ::	1/day	1 x 1 km :: Ocean/G,R,L	N/A ::	
MOD25A1	Calcite Conc, Estimated, Gridded	5355A1	Gordon	mg-CaCO3/cm^3		1/day	1 x 1 km :: Ocean/G,R,L	N/A ::	
MOD25A1	Pigment Conc, Gridded (in Coccolithophore Blooms)	5356A1	Gordon	mg/m^3		1/day	1 x 1 km :: Ocean/G,R,L	N/A ::	
MOD25A1	Lookup Table Descriptor, Gridded	5357A1	Gordon			1/day	1 x 1 km :: Ocean/G,R,L	N/A ::	
MOD25A1	Quality Measure, Gridded	5358A1	Gordon			1/day	1 x 1 km :: Ocean/G,R,L	N/A ::	
MOD25A2	Coccolith Conc, Detached, Gridded	2577A2	Gordon	number/ml	25000/ml (10-20%) ::	1/wk	20 x 20 km :: Ocean/G,R,L	N/A ::	
MOD25A2	Calcite Conc, Estimated, Gridded	5355A2	Gordon	mg-CaCO3/cm^3		1/wk	20 x 20 km :: Ocean/G,R,L	N/A ::	
MOD25A2	Pigment Conc, Gridded (in Coccolithophore Blooms)	5356A2	Gordon	mg/m^3		1/wk	20 x 20 km :: Ocean/G,R,L	N/A ::	
MOD25A2	Lookup Table Descriptor, Gridded	5357A2	Gordon			1/wk	20 x 20 km :: Ocean/G,R,L	N/A ::	
MOD25A2	Quality Measure, Gridded	5358A2	Gordon			1/wk	20 x 20 km :: Ocean/G,R,L	N/A ::	
MOD26	Ocean Water Attenuation Coef@490nm	3199	Clark, Gordon	/m	25% ::	1/day	1 km :: Ocean-I/ R,L	N/A ::	
MOD26	Ocean Water Attenuation Coef@520nm	3206	Clark, Gordon	/m	35% ::	1/day	1 km :: Ocean	N/A ::	

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
MOD26A1	Ocean Water Attenuation Coef@490nm, Gridded	3199A1	Clark, Gordon	/m	25% ::	1/day	1 x 1 km :: Ocean-I/ R,L	N/A ::	
MOD26A1	Ocean Water Attenuation Coef@520nm, Gridded	3206A1	Clark, Gordon	/m	35% ::	1/day	1 x 1 km :: Ocean	N/A ::	
MOD26A2	Ocean Water Attenuation Coef@490nm, Gridded	3199A2	Clark, Gordon	/m	25% ::	1/wk	20 x 20 km :: Ocean-I/ R,L	N/A ::	
MOD26A2	Ocean Water Attenuation Coef@520nm, Gridded	3206A2	Clark, Gordon	/m	35% ::	1/wk	20 x 20 km :: Ocean	N/A ::	
MOD27	Ocean Productivity, Primary	2602	Abbott, Esaias	mg-C/m^2/day	35% (Goal) ::	1/day	1 km :: Ocean-I/R,L	N/A ::	
MOD27A1	Ocean Productivity, Primary, Gridded	2602A1	Abbott, Esaias	mg-C/m^2/day	35% (Goal) ::	1/day	1 x 1 km :: Ocean-I/R,L	N/A ::	
MOD27A2	Ocean Productivity, Primary, Gridded, Global Annual	2606A2	Esaias, Abbott	GT-C/yr	35% (Goal) ::	1/yr	20 x 20 km :: Ocean-I/R,L	N/A ::	
MOD28	Sea_sfc Temperature (SST)	2527	Brown	K	0.3-0.5 K ::	1/day	1 km :: Ocean/L	N/A :: Sfc	
MOD28	Sea_sfc Temperature (SST), Quality_Assessment	5359	Brown	K	0.3-0.5 K ::	1/day	1 km :: Ocean/L	N/A :: Sfc	
MOD28A1	Sea_sfc Temperature (SST), Gridded	2527A1	Brown	K	0.3-0.5 K ::	1/day	1 x 1 km :: Ocean/L	N/A :: Sfc	
MOD28A1	Sea_sfc Temperature (SST), Quality_Assessment, Gridded	5359A1	Brown	K	0.3-0.5 K ::	1/day	1 x 1 km :: Ocean/L	N/A :: Sfc	
MOD28A2	Sea_sfc Temperature (SST), Gridded	2527A2	Brown	K	0.3-0.5 K ::	1/wk	1 x 1 km :: Ocean/L	N/A :: Sfc	
MOD28A2	Sea_sfc Temperature (SST), Quality_Assessment, Gridded	5359A2	Brown	K	0.3-0.5 K ::	1/wk	1 x 1 km :: Ocean/L	N/A :: Sfc	
MOD29	Sea_Ice Max Extent	3153	Salomonson, Hall	km^2	TBD :: TBD	1/day	1 km :: Ocean/Cryo,R	N/A :: Sfc	
MOD29A1	Sea_Ice Max Extent, Gridded	3153A1	Salomonson, Hall	km^2	TBD :: TBD	1/day	1 x 1 km :: Ocean/Cryo,R	N/A :: Sfc	
MOD30	Temperature Profile	3726	Menzel	K	0.5 K :: 1.5 K	2/day	5 km :: G	:: Atmos (20 levels)	
MOD30	Water Vapor Profile	3727	Menzel		5 - 50 % ::	2/day	5 km :: G	:: Atmos (15 levels)	
MOD31	Phycoerythrobilin Conc.	3320	Hoge	mg/m^3	50% :: 15%	1/day	1 km :: Ocean /RL	N/A :: Sfc	
MOD31	Phycourobilin Conc.	5360	Hoge	mg/m^3	50% :: 15%	1/day	1 km :: Ocean /RL	N/A :: Sfc	
MOD31	Constituent Inherent Optical Properties (CDOM absorption, Chlorophylous absorption	5361	Hoge			1/day	1 km :: Ocean /RL	N/A :: Sfc	
MOD31A1	Phycoerythrobilin Conc., Gridded	3320A1	Hoge	mg/m^3	50% :: 15%	1/day	1 x 1 km :: Ocean /RL	N/A :: Sfc	
MOD31A1	Phycourobilin Conc., Gridded	5360A1	Hoge	mg/m^3	50% :: 15%	1/day	1 x 1 km :: Ocean /RL	N/A :: Sfc	
MOD31A1	Constituent Inherent Optical Properties (CDOM absorption, Chlorophylous absorption), Gridded	5361A1	Hoge			1/day	1 x 1 km :: Ocean /RL	N/A :: Sfc	
MOD31A2	Phycoerythrobilin Conc., Gridded	3320A2	Hoge	mg/m^3	50% :: 15%	1/wk	1 x 1 km :: Ocean /RL	N/A :: Sfc	
MOD31A2	Phycourobilin Conc., Gridded	5360A2	Hoge	mg/m^3	50% :: 15%	1/wk	1 x 1 km :: Ocean /RL	N/A :: Sfc	
MOD31A2	Constituent Inherent Optical Properties (CDOM absorption, Chlorophylous absorption), Gridded	5361A2	Hoge			1/wk	1 x 1 km :: Ocean /RL	N/A :: Sfc	
MOD32	Match-up Databases, MODIS [in situ observations matched-up with MODIS retrievals	3303	Evans	variable		1/day	1 :: Ocean/G,R,L	N/A :: Sfc	
MOD32A1	Match-up Databases, MODIS [in situ observations matched-up with MODIS retrievals	3303A1	Evans	variable		1/day	4 km :: Ocean/G,R,L	N/A :: Sfc	
MOD33	Snow Cover	3020A2	Salomonson, Hall	km^2	10% ::	1/wk	1 x 1 km :: Land	N/A :: Sfc	
MOD34	Vegetation Indices, Max NDVI, Gridded	2749A1	Justice, Huete	dimensionless	0.05 ::	1/(10 day)	0.5 x 0.5 km, 1 x 1 km, 10 x 10 km, 1 x 1 deg :: Land/G	N/A :: Sfc	
MOD34	Vegetation Indices, Integrated MVI, Gridded	4334A1	Justice, Huete	dimensionless	0.05 ::	1/(10 day)	1 x 1 km, 10 x 10 km, 1 x 1 deg :: Land/G	N/A :: Sfc	
MOD34A1	Vegetation Indices, Max NDVI, Gridded	2749A2	Justice, Huete	dimensionless	0.05 ::	1/mon	0.5 x 0.5 km, 1 x 1 km, 10 x 10 km, 1 x 1 deg :: Land/G	N/A :: Sfc	
MOD34A1	Vegetation Indices, Integrated MVI, Gridded	4334A2	Justice, Huete	dimensionless	0.05 ::	1/mon	1 x 1 km, 10 x 10 km, 1 x 1 deg :: Land/G	N/A :: Sfc	

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
MOD35	Utility Masks, Clouds/Land/Water/Snow	3660	Menzel			1/day		::	Previously listed as part of MOD02, level 1B classification mask parameter.
MOD36	Absorption Coef, Total	3724	Carder	/m	25% ::	1/day		::	
MOD36	Absorption Coef, Gelbstof	5362	Carder	/m	25% ::	1/day		::	
MOD36A1	Absorption Coef, Total, Gridded	3724A1	Carder	/m	25% ::	1/day		::	
MOD36A1	Absorption Coef, Gelbstof, Gridded	5362A1	Carder	/m	25% ::	1/day		::	
MOD36A2	Absorption Coef, Total, Gridded	3724A2	Carder	/m	25% ::	1/wk		::	
MOD36A2	Absorption Coef, Gelbstof, Gridded	5362A2	Carder	/m	25% ::	1/wk		::	
MOD37	Aerosol Angstrom Exponent	2295	Gordon	dimensionless	15% ::	1/day	1 km :: Ocean/R,L	N/A :: Atmos	
MOD37	Aerosol Optical Depth (@865 nm)	2344	Gordon	dimensionless	>20% or 0.05 ::	1/day	1 km :: Ocean/G,R,L	N/A :: Atmos	
MOD37A1	Aerosol Angstrom Exponent, Gridded	2295A1	Gordon	dimensionless	15% ::	1/day	1 x 1 km :: Ocean/R,L	N/A :: Atmos	
MOD37A1	Aerosol Optical Depth (@865 nm), Gridded	2344A1	Gordon	dimensionless	>20% or 0.05 ::	1/day	1 x 1 km :: Ocean/G,R,L	N/A :: Atmos	
MOD37A2	Aerosol Angstrom Exponent, Gridded	2295A2	Gordon	dimensionless	15% ::	1/wk	1 x 1 km :: Ocean/R,L	N/A :: Atmos	
MOD37A2	Aerosol Optical Depth (@865 nm), Gridded	2344A2	Gordon	dimensionless	>20% or 0.05 ::	1/wk	1 x 1 km :: Ocean/G,R,L	N/A :: Atmos	
MOD38	Water Vapor, Atmospheric (Thermal IR)	3725	Menzel	mm	>20% or 5 mm ::	2/day	0.5 deg :: G	N/A :: Atmos	
MOD38A1	Water Vapor, Atmospheric (Thermal IR), Gridded	3725A1	Menzel	mm	>20% or 5 mm ::	1/mon	0.5 x 0.5 deg :: G	N/A :: Atmos	
MOD39	Clear Water Epsilon	3707	Carder		2% (0.9 to 1.4) ::	1/day	1 km :: Ocean	::	
MOD39A1	Clear Water Epsilon, Gridded	3707A1	Carder		2% (0.9 to 1.4) ::	1/day	1 x 1 km :: Ocean	::	
MOD39A2	Clear Water Epsilon, Gridded	3707A2	Carder		2% (0.9 to 1.4) ::	1/wk	1 x 1 km :: Ocean	::	
MOD40	Fire Occurrence, Gridded	2471A4	Kaufman, Justice			1/day	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40	Emitted Energy from Fire, Gridded	5363A4	Kaufman, Justice			1/day	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40	Smoldering/Flaming Ratio, Gridded	5364A4	Kaufman, Justice			1/day	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40	Fire Size, Gridded	5365A4	Kaufman, Justice			1/day	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40	Fire Temperature, Gridded	5366A4	Kaufman, Justice	K		1/day	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A1	Fire Occurrence, Gridded	2471A5	Kaufman, Justice			1/(10 day)	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A1	Emitted Energy from Fire, Gridded	5363A5	Kaufman, Justice			1/(10 day)	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A1	Smoldering/Flaming Ratio, Gridded	5364A5	Kaufman, Justice			1/(10 day)	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A1	Fire Size, Gridded	5365A5	Kaufman, Justice			1/(10 day)	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A1	Fire Temperature, Gridded	5366A5	Kaufman, Justice	K		1/(10 day)	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A2	Fire Occurrence, Gridded	2471A6	Kaufman, Justice			1/mon	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A2	Emitted Energy from Fire, Gridded	5363A6	Kaufman, Justice			1/mon	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A2	Smoldering/Flaming Ratio, Gridded	5364A6	Kaufman, Justice			1/mon	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A2	Fire Size, Gridded	5365A6	Kaufman, Justice			1/mon	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD40A2	Fire Temperature, Gridded	5366A6	Kaufman, Justice	K		1/mon	10 x 10 km, 0.5 x 0.5 deg :: Land/R	N/A :: Sfc	
MOD41	Land Surface Resistance Index	5368	Running	dimensionless		1/day	1 km :: Land	N/A :: N/A	
MOD42	Sea-Ice Cover, Gridded	3153A2	Salomonson, Hall			1/wk	1 x 1 km :: Land	N/A :: Sfc	
MOP01	Level-1B Radiance	2394	Drummond, Bailey	W/m^2/sr/µm		1/day	22 x 22 km :: G	:: Atmos	
MOP02	CH4 Column	1096	Drummond, Bailey	ppbv	1% :: 1%	1/day	25 x 25 km :: G	Column :: Atmos	
MOP02	CO Profile	1126	Drummond, Bailey	ppbv	10% :: 10%	1/day	25 x 25 km :: G	4 km :: 0-15 km	
MOP02	CO Column	1137	Drummond, Bailey	ppbv	10% :: 10%	1/day	25 x 25 km :: G	Column :: Atmos	

Appendix D. List of Parameters by Instruments

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
MOP05	CH4 Total Column, Gridded	3631	Drummond, Bailey	ppbv	1% :: 1%	1/wk	Std lat/long :: G	Column :: Atmos	Gridded Point and Zonal Fourier Coef Form
MOP06	CO Mixing Ratio, Gridded	3632	Drummond, Bailey	ppbv	10% :: 10%	1/wk	Std lat/long :: G	Std pressure lvl :: 0-15 km	Gridded Point and Zonal Fourier Coef Form
MOP07	CO Total Column, Gridded	3633	Drummond, Bailey	ppbv	10% :: 10%	1/wk	Std lat/long :: G	Column :: Atmos	Gridded Point and Zonal Fourier Coef Form
SAG01	Level-1B Transmission Profiles, Solar	2543	McCormick	dimensionless	0.05% :: 0.05%	1/(2 min), 30/day	200 x 2.5 km :: G	1 km :: 0-100 km	
SAG01	Level-1B Transmission Profiles, Lunar	7006	McCormick	dimensionless	1% :: 0.05%	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 0-100 km	
SAG02	Aerosol Extinction Profiles (at 7 wavelengths)	1012	McCormick	/km	5% :: 5%	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 0-40 km	
SAG03	Cloud Height, Top	1437	McCormick	km	.2 km :: 5%	1/(2 min), 30/day	<2 x <1 deg :: G	.5 km :: Strat/Trop	
SAG04	H2O Conc & Mixing Ratio, Solar	1841	McCormick	Molecule/cc & ppmv	10% :: 15%	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 3-50 km	
SAG04	H2O Conc & Mixing Ratio, Lunar	7001	McCormick	Molecule/cc & ppmv	10% :: 15%	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 3-50 km	
SAG05	NO2 Conc & Mixing Ratio, Solar	1277	McCormick	Molecule/cc & ppbv	10% :: 15%	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 10-50 km	
SAG05	NO2 Conc & Mixing Ratio, Lunar	7002	McCormick	Molecule/cc & ppbv	10% :: 15%	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 10-50 km	
SAG06	NO3 Conc and Mixing Ratio, Lunar	1282	McCormick	Molecule/cc &ppbv	10% :: 10%	1/(2 min), 30/day [n]	<2 x <1 deg :: G	1 km :: 20-55 km	NO3 - nocturnal only
SAG07	O3 Conc & Mixing Ratio, Solar	1321	McCormick	Molecule/cc & ppmv	6% :: 5 %	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 6-85 km	
SAG07	O3 Conc & Mixing Ratio, Lunar	7007	McCormick	Molecule/cc & ppmv	6% :: 5 %	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 6-50 km	
SAG08	OClO Conc and Mixing Ratio, Lunar	1353	McCormick	Molecule/cc & ppbv	20% :: 20%	1/(2 min), 30/day [n]	<2 x <1 deg :: G	3 km :: 15-25 km	OClO - nocturnal only
SAG09	Pressure (O2 Conc.), Lunar	7004	McCormick	kPa	2% :: 2%	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 6-70 km	
SAG09	Pressure (O2 Conc.), Solar	7008	McCormick	kPa	2% :: 2%	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 6-70 km	
SAG10	Temperature Profile (O2 Conc.), Solar	1611	McCormick	K	2 K :: 2K	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 6-70 km	
SAG10	Temperature Profile (O2 Conc.), Lunar	7005	McCormick	K	2 K :: 2K	1/(2 min), 30/day	<2 x <1 deg :: G	1 km :: 6-70 km	
SOL01	Level-1B Irradiance, SOLSTICE	2398	Rottman	W/m^3	10% :: N/A	4/day	2 deg :: G	1 km :: 0-100 km	
SOL02	Irradiance, UV Solar [1 nm res.]	2278	Rottman	W/m^3	3-5% :: 1%	1/hr	N/A :: N/A	N/A :: NA	
SOL03	Irradiance, UV Solar [0.001 nm res.]	2277	Rottman	W/m^3	3-5% :: 1%	1/hr	N/A :: N/A	N/A :: NA	
SOL04	Spectra, UV Stellar Comparison [1 nm res.]	3640	Rottman	W/m^3	3-5% :: 1%	32/day	N/A :: N/A	N/A :: NA	
SWS01	Level-1B Backscatter Power	2108	Freilich				50 km :: G	N/A :: Sfc	
SWS01A1	Level 1A Raw Counts, SWS	7205	Freilich						
SWS02	Backscatter Cross Section (Sigma-0), Global	3721	Freilich	dB	:: 0.25 dB		50 km :: G	N/A :: Sfc	
SWS03	Wind Vectors, Near_Surface	1680	Freilich	m/s,dg	> of 2 m/s or 10% rms (speed); 20 dg rms (direction) ::	N/A	50 km :: Ocean (1600 km swaths)	N/A :: Sfc	
SWS04	AMSR Brightness Temperature	7206	Freilich	K					
TES01	Level-1B Radiance, TES [IR spectra in selected bands 2.3-15.4µm]	2402	Beer	W/cm2/sr/cm-1	1% :: 1%	1 (4-day period)/mon	53 x 169 km :: G		
TES02	Level-1B Radiance, TES [IR spectra in selected bands 2.3-15.4µm]	3757	Beer	W/cm2/sr/cm-1	1% :: 1%	N/A	5 x 50 km, 0.5 x 5 km :: R,L	2-6 km :: 0-33 km	
TES03	CH4 Mixing Ratio	1089	Beer	ppbv	:: 14-40 ppbv	1 (4-day period)/mon	53 x 169 km :: G	2-6 km :: 0-33 km	
TES04	CO Mixing Ratio	1129	Beer	ppbv	:: 3-15 ppbv	1 (4-day period)/mon	53 x 169 km :: G	2-6 km :: 0-33 km	
TES05	HNO3 Mixing Ratio	1206	Beer	pptv	:: 3 pptv	1 (4-day period)/mon	53 x 169 km :: G	2-3 km :: 4-33 km	
TES06	N2O Mixing Ratio	1243	Beer	ppbv	:: 0.01-20 ppbv	1 (4-day period)/mon	53 x 169 km :: G	2-6 km :: 0-33 km	
TES07	NO Mixing Ratio	1268	Beer	pptv	:: 15-25 pptv	1 (4-day period)/mon	53 x 169 km :: G	2-3 km :: 4-33 km	
TES08	NO2 Mixing Ratio	1278	Beer	pptv	:: 500 pptv	1 (4-day period)/mon	53 x 169 km :: G	2-3 km :: 4-33 km	
TES09	O3 Mixing Ratio	1325	Beer	ppbv	:: 3-20 ppbv	1 (4-day period)/mon	53 x 169 km :: G	2-6 km :: 0-33 km	
TES10	Temperature Profile	1616	Beer	K	2 K:: 0.2 K	1 (4-day period)/mon	53 x 169 km :: G	4-6 km :: 0-33 km	
TES11	H2O/HDO Mixing Ratio	1842	Beer	ppmv	:: 0.5-50 ppmv	1 (4-day period)/mon	53 x 169 km :: G	2-6 km :: 0-33 km	
TES12	Land_sfc Brightness Temperature	2455	Beer	K	1 K :: 0.1 K	1 (4-day period)/mon	53 x 169 km :: G	N/A :: Sfc	

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Prod ID	*Parameter Name*	*Parm ID*	*Investigator*	*Units*	*Accuracy Abs :: Rel*	*Temporal Resolution*	*Horizontal Resol. :: Cover.*	*Vertical Resol. :: Cover.*	*Comments*
TES13	Level_2 Detection Flags [Set for SO2, NH3, C2H6, H2O2, PAN, HO2NO2, HCOH, HCOOH, (CH3)2S, HCl, HF, Clouds & Aerosols]	3710	Beer			N/A	53 x 169 km :: G		
TES14	CH4 Mixing Ratio	1089A1	Beer	ppbv	:: 14-40 ppbv	32 day	500 x 500 km :: G,R	Selected altitude/pressure surfaces :: 0-33 km	Interpolated global and regional maps at slected altitude/pressure surfaces. Profiles and column densities
TES15	CO Mixing Ratio	1129A1	Beer	ppbv	:: 3-15 ppbv	32 day	500 x 500 km :: G,R	Selected altitude/pressure surfaces :: 0-33 km	
TES16	HNO3 Mixing Ratio	1206A1	Beer	pptv	:: 3 pptv	32 day	500 x 500 km :: G,R	Selected altitude/pressure surfaces :: 0-33 km	
TES17	N2O Mixing Ratio	1243A1	Beer	ppbv	:: 0.01-20 ppbv	32 day	500 x 500 km :: G,R	Selected altitude/pressure surfaces :: 0-33 km	
TES18	NO Mixing Ratio	1268A1	Beer	pptv	:: 15-25 pptv	32 day	500 x 500 km :: G,R	Selected altitude/pressure surfaces :: 0-33 km	
TES19	NO2 Mixing Ratio	1278A1	Beer	pptv	:: 500 pptv	32 day	500 x 500 km :: G,R	Selected altitude/pressure surfaces :: 0-33 km	
TES20	O3 Mixing Ratio	1325A1	Beer	ppbv	:: 3-20 ppbv	32 day	500 x 500 km :: G,R	Selected altitude/pressure surfaces :: 0-33 km	
TES21	H2O/HDO Mixing Ratio	1842A1	Beer	ppmv	:: 0.5-50 ppmv	32 day	500 x 500 km :: G,R	Selected altitude/pressure surfaces :: 0-33 km	
TES22	*TES Model Parameters (TBD)*	3763	Beer						Models of the present and future state of the troposphere