CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
7.1-1	SCIENCE: Prepare synoptic interpolation software to process Terra Beta TSI data		Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Team mtgs	09/12/05	09/12/05	09/20/05	Complete
7.1-2	SCIENCE: Update the cloud interpolation subroutine to correct cloud parameters		Dave Doelling, Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Emails and phone calls	03/13/06	03/15/06	03/22/06	In pre-delivery verification testing
7.1-3	SCIENCE: Update the TOA flux interpolation code		Dave Doelling, Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Phone calls and meetings	03/13/06	03/15/06	03/22/06	In pre-delivery verification testing
7.1-4	SCIENCE: Update code to change the time of the data to GMT from hour one to last hour of the month		Dave Doelling, Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Phone calls and meetings	04/10/06	04/14/06	04/21/06	In validation
7.1-5	SCIENCE: Update code to use the local and GMT cosine solar zenith angle tables for SW flux analysis		Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Phone calls and meetings	04/20/06	04/20/06	04/22/06	Complete
7.1-6	SCIENCE: Update SW normalization code to use the local time clear-sky map to work in GMT time		Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Meetings	03/13/06	03/15/06	03/22/06	Complete
7.1-7	SCIENCE: Correct flux flags for nongeo, geo and interpolated data		Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Meetings	03/27/06	03/27/06	03/29/06	Complete
7.1-8	SCIENCE: Add the filling up SW fluxes and albedos for the days without data		Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Meetings	03/13/06	03/15/06	03/22/06	Complete
7.1-9	SCIENCE: Remove unused parameters		Dave Doelling, Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Email	04/04/06	04/04/06	04/05/06	Complete
7.1-10	SCIENCE: Add parameters such as aerosol from FSW and IR radiance from GEO		Dave Doelling. Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Email and meeting	03/31/06	04/05/06	04/06/06	Complete
7.1-11	Non-SCIENCE: Change TSI from non-nested grid to nested grid to save disk space		Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Phone calls and emails	02/27/06	03/15/06	04/03/06	Complete
7.1 - 12	SCIENCE: Make TSI hourbox center to be the same with FSW hourbox center	660	Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Meeting	08/22/07	08/22/07	08/22/07	Complete

CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
7.1 - 13	SCIENCE: Replace old code for computing cosine solar zenith angles, solar incidence, AM time and PM times for each region	660	Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Email	09/04/07	09/10/07	09/14/07	Complete
7.1 - 14	SCIENCE: Updated code to include the change in cosine solar zenith angles, solar incidence and AM and PM times	660	Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen				09/15/07	Complete
7.1 - 15	SCIENCE: Updated code to change the aerosol optical depth interpolation	660	Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Email	06/28/07	07/15/07	08/02/07	Complete
7.1 - 16	SCIENCE: Rescale TOASW fluxes using correction factors based on year, month, and instrument	660	Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Email	08/10/07	08/12/07	08/14/07	Complete
7.1 - 17	SCIENCE: Include the TOA daytime LW correction ratios	660	Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Email	08/07/07	08/20/07	08/21/07	Complete
7.1 - 18	SCIENCE: Change the solar declination, distance correction, and delta longitude from daily to hourly	660	Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Email	10/05/07	10/06/07	10/09/07	Complete
7.1 - 19	SCIENCE: Add a restriction bases on 50 percents cloud amount for land and 50 percents cloud amount or 80 degrees sza for ocean to eliminate the GGEO clear-sky IR to improve the clear-sky LW	660	Dave Doelling	TISA Averaging	Cathy Nguyen	Phone calls	11/14/07	11/14/07	11/14/07	Complete
7.1 - 20	SCIENCE:Improved the temporal interpolation for GGEO SW fluxes	660	Dave Doelling	TISA Averaging	Cathy Nguyen	Phone calls	11/16/07	11/20/07	11/22/07	Complete
7.1 - 21	SCIENCE: For snow regions, make total-sky GGEO SW fluxes to be non-GGEO SW fluxes (in toa_flux_mod)	660	Dave Doelling	TISA Averaging	Cathy Nguyen	Phone calls	12/18/07	12/18/07	12/18/07	Complete
7.1 - 22	SCIENCE: Recompute albedos after extrapolate non-GGEO SW fluxes. (in erbe_interp)	660	Dave Doelling	TISA Averaging	Cathy Nguyen	Phone calls	12/19/07	12/19/07	12/19/07	Complete
7.1 - 23	SCIENCE: Change code to make the negative csza to be zero to match with results from SGI runs	660	Dave Doelling	TISA Averaging	Cathy Nguyen	Phone calls	01/10/08	01/10/08	01/11/08	Complete

CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
8-01	SCIENCE: Validate the synoptic average TOA fluxes		Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meeting	6/1406	06/14/06	in progress	In validation
8-1	Non-SCIENCE: Change the SYN/AVG/ZAVG structure	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Phone calls and emails	09/08/06	09/11/06	09/20/06	Complete
8-2	SCIENCE: Remove unused parameters from TSIB (Please see SYN, AVG, and ZAVG Parameter Changes worksheets.)	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Phone calls and emails	08/03/06	08/03/06	08/04/06	Complete
8-3	SCIENCE: Remove unused parameters from SYNI (Please see SYN, AVG, and ZAVG Parameter Changes worksheets.)	639	Fred Rose	TISA Averaging Subsystem 8	Cathy Nguyen	Emails	08/09/06	08/09/06	08/10/06	Complete
8-4	SCIENCE: Remove number of observations from all of the parameters from AVG/ZAVG (Please see SYN, AVG, and ZAVG Parameter Changes worksheets.)	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Emails	09/20/06	09/21/06	09/29/06	Complete
8-5	SCIENCE: Add the MODIS aerosol optical depths to SYN/AVG/ZAVG	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Emails	09/20/06	09/21/06	09/29/06	Complete
8-6	SCIENCE: Add TOA Flux Error to SYN/AVG/ZAVG	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meetings	09/20/06	09/21/06	09/29/06	Complete
8-7	SCIENCE: Add checks for defaults in SYNI parameters and linearly interpolate data if necessary		Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meetings	09/20/06	09/21/06	09/29/06	Complete
8-8	SCIENCE: Compute untuned fluxes from tuned and adjust fluxes from SYNI	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meetings	09/20/06	09/21/06	09/29/06	Complete
8-9	SCIENCE: Compute Direct fluxes and Diffuse fluxes from the Total fluxes and Direct/Diffuse ratio from SYNI. Use the Direct and Diffuse fluxes to compute averages of the Direct/Diffuse ratios	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meetings	09/20/06	09/21/06	09/29/06	Complete
8-10	SCIENCE: Change the linear average for SW fluxes to adding the monthly hourly average SW fluxes to hours of missing data	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meetings	10/10/06	10/11/06	10/17/06	In validation

CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
8-11	SCIENCE: Add the number of hourboxes for observed, tuned and untuned SW and LW fluxes	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meetings	10/16/06	10/16/06	10/18/06	In validation
8-12	SCIENCE: Add the satellite emulated untuned and tuned TOA WN fluxes	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meetings	10/16/06	10/16/06	10/20/06	In validation
8-13	SCIENCE: Change the average of cloud parameters to include cloud fraction	639	Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meetings	10/10/06	10/11/06	10/18/06	In validation
8-14	SCIENCE: New PGE CER8.2P1delivery to create web plots for SYN product	639	Dave Doelling	TISA Averaging Subsystem 8	Raju,Flug,Nguyen	Email	10/18/06	10/18/06	02/15/07	Complete
8-15	Non-SCIENCE: Updated the readsoftware package to reflect the new structures in the SYN, AVG and ZAVG products via SCCR 639	649	Dave Doelling	TISA Averaging Subsystem 8	Nguyen	Phone calls	03/15/07	03/15/07	03/19/07	Complete
8-16	SCIENCE:Add the twilight flux to the observed SW all-sky monthly mean regional flux and to the tuned TOA level 1 all-sky SW flux	667	Dave Doelling	TISA Averaging	Cathy Nguyen	Email	01/09/08	01/15/08	01/16/08	Complete
8-17	SCIENCE: Add the clear-sky twilight flux table. Use the clear-sky twilight flux to add to the oberseved SW clear-sky monthly mean flux and to the tuned TOA level 1 clear-sky SW flux	667	Dave Doelling	TISA Averaging	Cathy Nguyen	Email	01/09/08	01/15/08	01/17/08	Complete
8-18	SCIENCE: Add three new parameters: Total-sky UVB surface flux up, snow grain size, match total aerosol optical depth at 0.55 um	667	Dave Doelling	TISA Averaging	Cathy Nguyen	Phone call	01/03/08	01/04/08	01/04/08	Complete
8-19	SCIENCE: Remove all clear-sky LW and SW fluxes that were added to the TSI so that the clear-sky and all-sky were identical when the cloud amount was zero.	667	Dave Doelling	TISA Averaging	Cathy Nguyen	Email	01/09/08	01/15/08	01/17/08	Complete
8-20	SCIENCE: Linearly interpolate the zonal monthly clear-sky LW fluxes	667	Dave Doelling	TISA Averaging	Cathy Nguyen	Email	01/18/08	01/18/08	01/22/08	In Validation
8-21	SCIENCE: Use the incoming solar and the zonal monthly SW fluxes to interpolate the default zonal monthly SW fluxes.	667	Dave Doelling	TISA Averaging	Cathy Nguyen	Email	01/18/08	01/18/08	01/22/08	In validation

CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
8-22	SCIENCE: Change parameter names to match with the names in DPC	667	Cathy Nguyen	TISA Averaging	Cathy Nguyen	Self	01/23/08	01/23/08	01/23/08	Complete
8-23	non-SCIENCE: Modify code to run on IBM cluster	667	Cathy Nguyen	TISA Averaging	Cathy Nguyen	Self	01/02/08	01/02/08	01/02/08	Complete
8-24	SCIENCE: For regions with one clear-sky TOA SW flux a day or less than 20 observations per month, the clear-sky TOA SW fluxes of the month are made to be defaults	667	Dave Doelling	TISA Averaging	Cathy Nguyen	Email	02/15/08	02/15/08	02/15/08	Complete
8-25	SCIENCE: Correct the 3-hourly averages of the PAR and UVA, UVB fluxes	667	Dave Doelling	TISA Averaging	Cathy Nguyen	Email	4/4/2008	4/4/2008	4/4/2008	Complete

CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
10-1	SCIENCE: Prepare averaging software for Edition2D SRBAVG	583	Bruce Wielicki, Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	09/01/04	09/16/04		In pre-delivery verification testing
10-2	SCIENCE: Add new PGE, CER10.2P1, to create a month of the daily regional snow and ice maps	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	05/27/05	Implementation and verification testing completed, but the ST may decide PGE is not necessary
10-3	SCIENCE: Add new PGE, CER10.3P1, to create a month of the daily regional ozone maps	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	05/27/05	Implementation and verification testing completed, but the ST may decide PGE is not necessary
10-4	SCIENCE: Add phase one before creating SRBAVGs to compute the monthly hourly average of the non-GGEO clear-sky albedos and SW fluxes. Add a new PGE, CER10.P2 to create the above data plus the monthly snow	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	08/17/07	In pre-delivery verification testing
10-5	SCIENCE: Add phase two before creating SRBAVGs to create the clear-sky map	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	05/13/05	In pre-delivery verification testing
10-6	SCIENCE: Modify phase three to create the SRBAVG using the output from phases one and two	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	05/17/05	In pre-delivery verification testing
10-7	SCIENCE: Update the GGEO algorithm to incorporate the latest GGEO method	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	09/02/05	In pre-delivery verification testing
10-8	SCIENCE: Run four seasonal months to validate the interpolated surface flux and the monthly average of TOA fluxes	583	Dave Doelling and Dave Rutan	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	09/12/05	09/13/05	09/14/05	In pre-delivery verification testing
10-9	SCIENCE: Run four seasonal months of Terra and Aqua and TRMM and output the interpolated TOA and surface fluxes for validation	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	09/13/05	09/13/05	09/15/05	In pre-delivery verification testing
10-10	SCIENCE: Run three years of cross-track Terra SRBAVGs for validation	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	09/13/05	09/16/05	09/19/05	In pre-delivery verification testing
10-11	SCIENCE: Correct errors in the GGEO interpolation to validate ValR7 SRBAVGs	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Phone calls and emails	10/11/05	10/11/05	10/11/05	Delivered to CM

CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
10-12	SCIENCE: Correct GGEO SW fluxes and clear-sky net surface fluxes	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and meetings	01/05/06	01/05/06	01/07/06	Delivered to CM
10-13	SCIENCE: Add the linear interpolation for the relative humidity in the case of missing partial PMOA data	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meetings	11/03/05	11/03/05	12/20/05	Delivered to CM
10-14	SCIENCE: Correct the conversion of four cloud categories to two cloud categories for the IR emissivities, optical depth, cloud pressures	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meetings	11/08/05	11/08/05	11/09/05	Delivered to CM
10-15	SCIENCE: Correct the weights in the zonal and global averages	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Phone calls and emails	11/09/05	11/09/05	11/11/05	Delivered to CM
10-16	NON-SCIENCE: Correct the label name for the surface fluxes and the attributes of the HDF SRBAVGs	608	Ed Kizer, Erika Geier	TISA Averaging Subsystem 10	Cathy Nguyen	Emails	12/27/05	12/27/05	12/28/05	Delivered to CM
10-17	SCIENCE: Create SRBAVG4 for the GGEO daily means		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	01/31/06	01/31/06	02/25/06	In pre-delivery verification testing
10-18	SCIENCE: Create SRBAVG5 for the CERES daily means. Add the snow/ice and solar incoming flux parameters		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	01/31/06	01/31/06	02/25/06	In pre-delivery verification testing
10-19	SCIENCE: Create SRB+B16AVG6 for the GGEO cloud and SRBAVG7 for CERES cloud in ISCCP format		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	01/31/06	01/31/06	03/09/06	In pre-delivery verification testing
10-20	SCIENCE: Search for the cause of the "inf" in the surface fluxes		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	02/13/06	02/13/06	02/14/06	In pre-delivery verification testing
10-21	Non-SCIENCE: Create a new PGE to product SRBAVG4/5/6/7 and the to include the 10-minutes snow/ice maps for inputs to SRBAVG5 snow/ice parameter		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	02/13/06	02/13/06	02/20/06	In pre-delivery verification testing
10-22	SCIENCE: Create a non-public HDF file for night time MODIS cloud		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meeting	04/20/06	04/24/06	04/27/06	In pre-delivery verification testing
10-23	SCIENCE: Run Aqua SRBAVGs from March 2003 through May 2004 with the use of Beta6 GGEOs. Add the number of days for the 8 GMT blocks in the MODIS D2 ISCCP-like data.		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Phone calls and meeting	04/24/06	04/24/06	04/27/06	Complete

CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
10-24	SCIENCE: Add the daily and the monthly hourly number of observations for non-GEO and GEO TOA fluxes		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meeting	05/02/06	05/05/06	05/11/06	Complete
10-25	SCIENCE: Add the daily twilight correction to adjust the daily TOA SW fluxes		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meeting	05/08/06	05/09/06	05/17/06	Complete
10-26	SCIENCE: Deliver code to support the Beta version of SRBAVG4-7	624	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Email and meeting	06/09/06	06/12/06	06/13/06	Complete
10-27	SCIENCE: Update code to include the defaults in the clear-sky map for regions without data for 200503 SRBAVG DAAC process	629	Lisa Link	TISA Averaging Subsystem 10	Cathy Nguyen	Email	06/19/06	06/19/06	06/20/06	Complete
10-28	SCIENCE: Beta1 Daily SRBAVGs were produced at the DAAC for further validation. Found NaN in surface net flux mod. A and also in the cloud top and bottom pressures. Search for the cause of the NaN.		Dennis Keyes, Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Email and meeting	07/05/06	07/05/06	in progress	In validation
10-29	SCIENCE: Updated code to include the RAPS data for Beta5 Aqua SRBAVG delivery	637	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Email	09/06/06	09/06/06	09/09/06	In validation
10-30	Non-SCIENCE: Updated the GGEO file check script to correct the location of available GGEO at DAAC	645	Lisa Link	TISA Averaging Subsystem 10	Cathy Nguyen	Email	02/13/07	02/13/07	02/13/07	In validation
10-31	SCIENCE: Updated the daily TOA SW fluxes over the polar regions.	650	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Email	03/27/07	03/27/07	03/27/07	Complete
10-32	SCIENCE: Updated the daily surface SW fluxes for model A and model B since there are regions the averages do not add up correctly	650	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Email	03/28/07	03/28/07	03/29/07	In validation
10-33	SCIENCE: Correct the use of the snow maps. Start at -180 degrees instead of 0	650	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Email	03/27/07	03/27/07	03/27/07	In validation
10-34	SCIENCE: Updated code to add in SS8 code	650	Cathy Nguyen	TISA Averaging Subsystem 10	Cathy Nguyen		03/08/07	03/08/07	03/27/07	Complete

CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
10-35	SCIENCE: Updated to remove the ISCCP-like srbavgs and output SRBAVG1,2,3 and SRBAVG-Daily1 and SRBAVG-Daily2	650	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	phone calls	03/02/07	03/02/07	03/09/07	Complete
10-36	SCIENCE: Update to add the change in surface LW model B	650	Cathy Nguyen	TISA Averaging Subsystem 10	Cathy Nguyen		03/29/07	03/29/07	03/29/07	Complete
10-37	SCIENCE: Add the RAP mode for Terra processing	650	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen		03/02/07	03/02/07	03/02/07	Complete

The following parameters have been removed, added, stayed the same, or had a name change.
(If "Removed," there will be no SYN No.)

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.9-4. Time and Position				
	Julian date at hour start	Y			
1	Region number			Y	
2	Colatitude		Y		
3	Longitude		Y		
	Hour-box number	Y			
4	Surface altitude above sea level - mean				Surface altitude above sea level
	Cosine of solar zenith angle	Y			
5	Surface type percent coverage			Y	
	Table 2.9-5. Observed TOA Fluxes				
6	SW TOA Flux - total skies - mean				SW TOA Total-Sky
	SW TOA Flux - total skies - std	Y			
7	LW TOA Flux - total skies - mean				LW TOA Total-Sky
	LW TOA Flux - total skies - std	Y			
8	TOA Albedo - total skies - mean				WN TOA Total-Sky
	TOA Albedo - total skies - std	Y			
9	WN TOA Flux - total skies - mean				ALB TOA Total-Sky
	WN TOA Flux - total skies - std	Y			
10	SW TOA Flux - clear skies - mean				SW TOA Clear-Sky
	SW TOA Flux - clear skies - std	Y			
11	LW TOA Flux - clear skies - mean				LW TOA Clear-Sky
	LW TOA Flux - clear skies - std	Y			
12	TOA Albedo - clear skies - mean				WN TOA Clear-Sky
	TOA Albedo - clear skies - std	Y			
13	WN TOA Flux - clear skies - mean				ALB TOA Clear-Sky
	WN TOA Flux - clear skies - std	Y			

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.9-6. Cloud Properties for Four Cloud Layers				
14	Area percent coverage				Area Fraction Percentage
15	Cloud visible optical depth - linear - mean				Vis. Opt. Depth (linear)
	Cloud visible optical depth - linear - std	Y			
16	Cloud visible optical depth - logarithmic - mean				Vis. Opt. Depth (log)
	Cloud visible optical depth - logarithmic - std	Y			
17	Cloud infrared emissivity - mean				Infrared Emissivity
	Cloud infrared emissivity - std	Y			
18	Cloud liquid water path - mean				Liquid Water Path
	Cloud liquid water path - std	Y			
19	Cloud ice water path - mean				Ice Water Path
	Cloud ice water path - std	Y			
20	Cloud top pressure - mean				Top Pressure
	Cloud top pressure - std	Y			
21	Cloud effective pressure - mean				Effective Pressure
	Cloud effective pressure - std	Y			
22	Cloud effective temperature - mean				Effective Temperature
	Cloud effective temperature - std	Y			
23	Cloud effective height - mean				Effective Height
	Cloud effective height - std	Y			
24	Cloud base pressure - mean				Bottom Pressure
	Cloud base pressure - std	Y			
25	Cloud liquid particle radius - 3.7 μm - mean				Liquid Particle Radius
	Cloud liquid particle radius - 3.7 μm - std	Y			
26	Cloud ice particle effective diameter - 3.7 μm - mean				Ice Particle Diameter
	Cloud ice particle effective diameter - 3.7 μm - std	Y			
27	Cloud particle phase - 3.7 μm - mean				Particle Phase
	Cloud liquid particle radius - 1.6 μm - mean	Y			
	Cloud ice particle effective diameter - 3.7 μm - mean	Y			
	Cloud particle phase - 1.6 μm - mean	Y			
28	Vertical aspect ratio - mean (TBD)				Vertical Aspect Ratio
	Vertical aspect ratio - std (TBD)	Y			

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.9-7. Stowe-Ignatov Aerosol Optical Depth				
	Snow/ice percent coverage	Y			
	Smoke percent coverage	Y			
	Fire percent coverage	Y			
29	Aerosol visible optical depth - 0.63 μm			Y	
30	Aerosol visible optical depth - 1.6 μm			Y	
	Aerosol percent coverage	Y			
	Sunglint percentage	Y			
	Removed Table 2.9-7				
	Area percent coverage	Y			
	Cloud visible optical depth - linear - mean	Y			
	Cloud visible optical depth - linear - std	Y			
	Cloud visible optical depth - logarithmic - mean	Y			
	Cloud visible optical depth - logarithmic - std	Y			
	Cloud infrared emissivity - mean	Y			
	Cloud infrared emissivity - std	Y			
	Cloud liquid water path - mean	Y			
	Cloud liquid water path - std	Y			
	Cloud ice water path - mean	Y			
	Cloud ice water path - std	Y			
	Cloud top pressure - mean	Y			
	Cloud top pressure - std	Y			
	Cloud effective pressure - mean	Y			
	Cloud effective pressure - std	Y			
	Cloud effective temperature - mean	Y			
	Cloud effective temperature - std	Y			
	Cloud effective height - mean	Y			
	Cloud effective height - std	Y			
	Cloud bottom pressure - mean	Y			
	Cloud bottom pressure - std	Y			
	Cloud liquid particle radius - 3.7 μm - mean	Y			
	Cloud liquid particle radius - 3.7 μm - std	Y			
	Cloud ice particle effective diameter - 3.7 μm - mean	Y			
	Cloud ice particle effective diameter - 3.7 μm - std	Y			
	Cloud particle phase - 3.7 μm - mean	Y			

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Cloud liquid particle radius - 1.6 μm - mean	Y			
	Cloud ice particle effective diameter - 3.7 μm - mean	Y			
	Cloud particle phase - 1.6 μm - mean	Y			
	Vertical aspect ratio - mean (TBD)	Y			
	Vertical aspect ratio - std (TBD)	Y			
	Removed Table 2.9-8				
	Overlap area fraction	Y			
	Removed Table 2.9-9				
	Incident solar flux	Y			
	Area percent coverage	Y			
	Albedo - mean	Y			
	Albedo - std	Y			
	LW flux - mean	Y			
	LW flux - std	Y			
	Removed Table 2.9-10				
	Photosynthetically active radiation over surface (TBD)	Y			
	Direct/diffuse surface ratio	Y			
	Corrected initial broadband surface albedo	Y			
	Removed Table 2.9-11				
	Number of atmospheric levels	Y			
	Pressure levels	Y			
	Table 2.9-8. Tuned Pristine Fluxes				
31	Initial Aerosol Optical Depth		Y		
32	Aerosol Opt. Depth at 0.47 μm in Land		Y		
33	Aerosol Opt. Depth at 0.55 μm in Land		Y		
34	Aerosol Opt. Depth at 0.66 μm in Land		Y		
35	Aerosol Opt. Depth at 0.47 μm in Ocean		Y		
36	Aerosol Opt. Depth at 0.55 μm in Ocean		Y		
37	Aerosol Opt. Depth at 0.66 μm in Ocean		Y		
38	Aerosol Opt. Depth at 0.87 μm in Ocean		Y		

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
39	Aerosol Opt. Depth at 1.24 μm in Ocean		Y		
40	Aerosol Opt. Depth at 1.64 μm in Ocean		Y		
41	Aerosol Opt. Depth at 2.13 μm in Ocean		Y		
	Table 2.9-9. Tuned Pristine Fluxes				
42	Tuned Pristine SW Surface Up		Y		
43	Tuned Pristine SW Surface Down		Y		
44	Tuned Pristine SW TOA Up		Y		
45	Tuned Pristine LW Surface Up		Y		
46	Tuned Pristine LW Surface Down		Y		
47	Tuned Pristine LW TOA Up		Y		
48	Tuned Pristine WN Surface Up		Y		
49	Tuned Pristine WN Surface Down		Y		
50	Tuned Pristine WN TOA Up		Y		
	Table 2.9-10. Tuned ClearSky Flux Profiles				
51	SW flux - upward for clear-sky				Tuned Clear-Sky SW Up
52	SW flux - downward for clear-sky				Tuned Clear-Sky SW Down
53	LW flux - upward for clear-sky				Tuned Clear-Sky LW Up
54	LW flux - downward for clear-sky				Tuned Clear-Sky LW Down
55	WN flux - upward for clear-sky				Tuned Clear-Sky WN Up
56	WN flux - downward for clear-sky				Tuned Clear-Sky WN Down
	Table 2.9-11. Tuned TotalSky-NoAerosol Fluxes				
57	Tuned Total-Sky-NoAerosol SW Surface Up		Y		
58	Tuned Total-Sky-NoAerosol SW Surface Down		Y		
59	Tuned Total-Sky-NoAerosol SW TOA Up		Y		
60	Tuned Total-Sky-NoAerosol LW Surface Up		Y		
61	Tuned Total-Sky-NoAerosol LW Surface Down		Y		
62	Tuned Total-Sky-NoAerosol LW TOA Up		Y		
63	Tuned Total-Sky-NoAerosol WN Surface Up		Y		
64	Tuned Total-Sky-NoAerosol WN Surface Down		Y		
65	Tuned Total-Sky-NoAerosol WN TOA Up		Y		
	Table 2.9-12. Tuned TotalSky Flux Profiles				
66	SW flux - upward for total-sky				Tuned Total-Sky SW Up

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
67	SW flux - downward for total-sky				Tuned Total-Sky SW Down
68	LW flux - upward for total-sky				Tuned Total-Sky LW Up
69	LW flux - downward for total-sky				Tuned Total-Sky LW Down
70	WN flux - upward for total-sky				Tuned Total-Sky WN Up
71	WN flux - downward for total-sky				Tuned Total-Sky WN Down
	Table 2.9-13. Untuned Pristine Fluxes				
72	Untuned Pristine SW Surface Up		Y		
73	Untuned Pristine SW Surface Down		Y		
74	Untuned Pristine SW TOA Up		Y		
75	Untuned Pristine LW Surface Up		Y		
76	Untuned Pristine LW Surface Down		Y		
77	Untuned Pristine LW TOA Up		Y		
78	Untuned Pristine WN Surface Up		Y		
79	Untuned Pristine WN Surface Down		Y		
80	Untuned Pristine WN TOA Up		Y		
	Table 2.9-14. Untuned ClearSky Fluxes				
81	Untuned Clear-Sky SW Surface Up		Y		
82	Untuned Clear-Sky SW Surface Down		Y		
83	Untuned Clear-Sky SW TOA Up		Y		
84	Untuned Clear-Sky LW Surface Up		Y		
85	Untuned Clear-Sky LW Surface Down		Y		
86	Untuned Clear-Sky LW TOA Up		Y		
87	Untuned Clear-Sky WN Surface Up		Y		
88	Untuned Clear-Sky WN Surface Down		Y		
89	Untuned Clear-Sky WN TOA Up		Y		

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.9-15. Untuned TotalSky-NoAerosol Fluxes				
90	Untuned Total-Sky-NoAerosol SW Surface Up		Y		
91	Untuned Total-Sky-NoAerosol SW Surface Down		Y		
92	Untuned Total-Sky-NoAerosol SW TOA Up		Y		
93	Untuned Total-Sky-NoAerosol LW Surface Up		Y		
94	Untuned Total-Sky-NoAerosol LW Surface Down		Y		
95	Untuned Total-Sky-NoAerosol LW TOA Up		Y		
96	Untuned Total-Sky-NoAerosol WN Surface Up		Y		
97	Untuned Total-Sky-NoAerosol WN Surface Down		Y		
98	Untuned Total-Sky-NoAerosol WN TOA Up		Y		
	Table 2.9-16. Untuned TotalSky Fluxes				
99	Untuned Total-Sky SW Surface Up		Y		
100	Untuned Total-Sky SW Surface Down		Y		
101	Untuned Total-Sky SW TOA Up		Y		
102	Untuned Total-Sky LW Surface Up		Y		
103	Untuned Total-Sky LW Surface Down		Y		
104	Untuned Total-Sky LW TOA Up		Y		
105	Untuned Total-Sky WN Surface Up		Y		
106	Untuned Total-Sky WN Surface Down		Y		
107	Untuned Total-Sky WN TOA Up		Y		
	Table 2.9-17 Satellite Emulated WN TOA Fluxes				
108	Untuned Satellite emulated WN TOA		Y		
109	Tuned Satellite emulated WN TOA		Y		
	Table 2.9-18 TOA Flux Error				
110	Tuned Minus Observed SW TOA		Y		
111	Untuned Minus Observed SW TOA		Y		
112	Tuned Minus Observed LW TOA		Y		
113	Untuned Minus Observed LW TOA		Y		

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.9-19 Number of Hourboxes				
114	Number of Observed SW hourboxes		Y		
115	Number of Untuned SW hourboxes		Y		
116	Number of Tuned SW hourboxes		Y		
117	Number of Observed LW hourboxes		Y		
118	Number of Untuned LW hourboxes		Y		
119	Number of Tuned LW hourboxes		Y		
	Removed Table 2.9-14				
	SW flux adjustment at surface - upward for clear-sky	Y			
	SW flux adjustment at TOA - upward for clear-sky	Y			
	SW flux adjustment at surface - downward for clear-sky	Y			
	LW flux adjustment at surface - upward for clear-sky	Y			
	LW flux adjustment at surface - downward for clear-sky	Y			
	LW flux adjustment at TOA - upward for clear-sky	Y			
	WN flux adjustment at surface - upward for clear-sky	Y			
	WN flux adjustment at surface - downward for clear-sky	Y			
	WN flux adjustment at TOA - upward for clear-sky	Y			
	Removed Table 2.9-15				
	SW flux adjustment at surface - upward for total-sky	Y			
	SW flux adjustment at TOA - upward for total-sky	Y			
	SW flux adjustment at surface - downward for total-sky	Y			
	LW flux adjustment at surface - upward for total-sky	Y			
	LW flux adjustment at surface - downward for total-sky	Y			
	LW flux adjustment at TOA - upward for total-sky	Y			
	WN flux adjustment at surface - upward for total-sky	Y			
	WN flux adjustment at surface - downward for total-sky	Y			
	WN flux adjustment at TOA - upward for total-sky	Y			
	Removed Table 2.9-16				
	WN filtered radiance -satellite emulated	Y			
	WN filtered radiance adjustment-satellite emulated	Y			

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
	WN flux - satellite emulated - TOA	Y			
	WN flux adjustment - satellite emulated - TOA	Y			
	Removed Table 2.9-17				
	Total LW unfiltered radiance - satellite emulated	Y			
	Total LW unfiltered radiance adjustment - satellite emulated	Y			
	Table 2.9-20. Constrainment Adjustments				
120	Total column precipitable water - initial			Y	
121	Total column precipitable water - adjustment				Total column precipitable water-adjusted
122	Upper tropospheric precipitable water - initial			Y	
123	Upper tropospheric precipitable water - adjustment				Upper tropospheric precipitable water-adjusted
124	Upper tropospheric humidity - initial			Y	
125	Upper tropospheric humidity - adjustment				Upper tropospheric humidity - adjusted
126	Corrected initial broadband surface albedo		Y		
127	Surface albedo - adjustment				Surface albedo - adjusted
128	Aerosol optical depth - initial			Y	
129	Aerosol optical depth - adjustment				Aerosol optical depth - adjusted
130	Skin temperature - initial			Y	
131	Skin temperature - adjustment				Skin temperature - adjusted
132	Surface pressure		Y		
133	Column ozone - initial		Y		
134	Column ozone - Flag source		Y		
135	Mean visible optical depth- adjustment				Mean visible optical depth- adjusted
136	Mean cloud fractional area - adjustment				Mean cloud fractional area - adjusted
137	Mean cloud effective temperature - adjustment				Mean cloud effective temperature - adjusted
	Table 2.9-21. Surface SW Direct/Diffuse Fluxes				
138	Total-Sky SW flux - Diffuse		Y		
139	Clear-Sky SW flux - Diffuse		Y		
140	Pristine-Sky SW flux - Diffuse		Y		
141	Actinic-Sky SW flux - Diffuse		Y		
142	Total-Sky SW flux - Direct		Y		
143	Clear-Sky SW flux - Direct		Y		
144	Pristine-Sky SW flux - Direct		Y		

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
145	Actinic-Sky SW flux - Direct		Y		
	Table 2.9-22. UVA - UVB Fluxes				
146	TOA Downwelling UVB Flux		Y		
147	TOA Downwelling UVA Flux		Y		
148	Pristine UVB Surface flux - Direct		Y		
149	Pristine UVB Surface flux - Diffuse		Y		
150	Pristine UVA Surface flux - Direct		Y		
151	Pristine UVA Surface flux - Diffuse		Y		
152	Clear-Sky UVB Surface flux - Direct		Y		
153	Clear-Sky UVB Surface flux - Diffuse		Y		
154	Clear-Sky UVA Surface flux - Direct		Y		
155	Clear-Sky UVA Surface flux - Diffuse		Y		
156	Total-Sky-NoAerosol UVB Surface flux - Direct		Y		
157	Total-Sky-NoAerosol UVB Surface flux - Diffuse		Y		
158	Total-Sky-NoAerosol UVA Surface flux - Direct		Y		
159	Total-Sky-NoAerosol UVA Surface flux - Diffuse		Y		
160	Total-Sky UVB Surface flux - Direct		Y		
161	Total-Sky UVB Surface flux - Diffuse		Y		
162	Total-Sky UVA Surface flux - Direct		Y		
163	Total-Sky UVA Surface flux - Diffuse		Y		
164	Total-Sky Surface UV Index		Y		
165	Clear-Sky Surface UV Index		Y		
166	Pristine Surface UV Index		Y		
167	Total-Sky-NoAerosol Surface UV Index		Y		
	Table 2.9-23. Par Fluxes				
168	TOA Downwelling PAR Flux		Y		
169	Total-Sky PAR Surface flux - Direct		Y		
170	Total-Sky PAR Surface flux - Diffuse		Y		
171	Total-Sky PAR PURV Surface flux - Direct		Y		
172	Total-Sky PAR PURV Surface flux - Diffuse		Y		
173	Total-Sky PAR ChlorA Surface flux - Direct		Y		
174	Total-Sky PAR ChlorA Surface flux - Diffuse		Y		
175	Clear-Sky PAR Surface flux - Direct		Y		
176	Clear-Sky PAR Surface flux - Diffuse		Y		

SYN No.	Parameter	Removed	Added	Stayed the Same	Name Change
177	Pristine PAR Surface flux - Direct		Y		
178	Pristine PAR Surface flux - Diffuse		Y		
	Table 2.9-24. Pristine-Sky SW MultiStream Correction				
179	SW TOA Flux - Up - Pristine-Sky - Corrected		Y		
180	SW Surface Flux - Down- Pristine-Sky - Corrected		Y		

The following parameters have been removed, added, stayed the same, or had a name change.
This was one table in the Data Products Catalog which has been made into 21 tables.
(If "Removed," there will be no AVG No.)

AVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.10-4. Time and Position				
1	Region number		Y		
2	Colatitude		Y		
3	Longitude		Y		
4	Surface altitude				Surface altitude above sea level
5	Surface Type Percent Coverage				Surface type percent coverage
	Region Parameters - old table				
	Snow/Ice Percent Coverage	Y			
	Fire Percent Coverage	Y			
	Aerosol Percent Coverage	Y			
	Table 2.10-5. Observed TOA Fluxes				
6	Total-sky TOA SW Flux				SW TOA Total-Sky
7	Total-sky TOA LW Flux				LW TOA Total-Sky
8	Total-sky TOA WN Flux				WN TOA Total-Sky
9	Total-sky TOA Albedo				ALB TOA Total-Sky
10	Clear-sky TOA SW Flux				SW TOA Clear-Sky
11	Clear-sky TOA LW Flux				LW TOA Clear-Sky
12	Clear-sky TOA WN Flux				WN TOA Clear-Sky
13	Clear-sky TOA Albedo				ALB TOA Clear-Sky
	Table 2.10-6. Cloud Properties for Four Cloud Layers				
14	Cld Layer Total Cld Area Fraction				Area Fraction Percentage
15	Cld Layer Visible Optical Depth - lin				Vis. Opt. Depth (linear)
16	Cld Layer Visible Optical Depth - log				Vis. Opt. Depth (log)
17	Cld Layer Infrared Emissivity				Infrared Emissivity
18	Cld Layer Liquid Water Path				Liquid Water Path
19	Cld Layer Ice Water Path				Ice Water Path
20	Cld Layer Top Pressure				Top Pressure
21	Cld Layer Effective Pressure				Effective Pressure

AVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
22	Cld Layer Effective Temperature				Effective Temperature
23	Cld Layer Effective Height				Effective Height
24	Cld Layer Bottom Pressure				Bottom Pressure
25	Cld Layer Water Particle Radius				Liquid Particle Radius
26	Cld Layer Ice Particle Effective Diam				Ice Particle Diameter
27	Cld Layer Particle Phase				Particle Phase
28	Cld Layer Vertical Aspect Ratio				Vertical Aspect Ratio
	Table 2.10-7. Stowe-Ignatov Aerosol Optical Depth				
29	Total Aerosol Visible Optical Depth @ 0.63 microns				Aerosol visible optical depth - 0.63 μm
30	Total Aerosol Visible Optical Depth @ 1.6 microns				Aerosol visible optical depth - 1.6 μm
	Table 2.10-8. MODIS Aerosol Optical Depth				
31	Initial Aerosol Optical Depth		Y		
32	Aerosol Opt. Depth at 0.47 μm in Land		Y		
33	Aerosol Opt. Depth at 0.55 μm in Land		Y		
34	Aerosol Opt. Depth at 0.66 μm in Land		Y		
35	Aerosol Opt. Depth at 0.47 μm in Ocean		Y		
36	Aerosol Opt. Depth at 0.55 μm in Ocean		Y		
37	Aerosol Opt. Depth at 0.66 μm in Ocean		Y		
38	Aerosol Opt. Depth at 0.87 μm in Ocean		Y		
39	Aerosol Opt. Depth at 1.24 μm in Ocean		Y		
40	Aerosol Opt. Depth at 1.64 μm in Ocean		Y		
41	Aerosol Opt. Depth at 2.13 μm in Ocean		Y		
	Table 2.10-9. Tuned Pristine Fluxes				
42	Tuned Pristine SW Surface Up		Y		
43	Tuned Pristine SW Surface Down		Y		
44	Tuned Pristine SW TOA Up		Y		
45	Tuned Pristine LW Surface Up		Y		
46	Tuned Pristine LW Surface Down		Y		
47	Tuned Pristine LW TOA Up		Y		
48	Tuned Pristine WN Surface Up		Y		
49	Tuned Pristine WN Surface Down		Y		
50	Tuned Pristine WN TOA Up		Y		

AVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.10-10. Tuned ClearSky Flux Profiles				
51	Clear-sky Upward SW Flux Profile				Tuned Clear-Sky SW Up
52	Clear-sky Downward SW Flux Profile				Tuned Clear-Sky SW Down
53	Clear-sky Upward LW Flux Profile				Tuned Clear-Sky LW Up
54	Clear-sky Downward LW Flux Profile				Tuned Clear-Sky LW Down
55	Tuned Clear-Sky WN Up		Y		
56	Tuned Clear-Sky WN Down		Y		
	Table 2.10-11. Tuned TotalSky-NoAerosol Fluxes				
57	Tuned Total-Sky-NoAerosol SW Surface Up		Y		
58	Tuned Total-Sky-NoAerosol SW Surface Down		Y		
59	Tuned Total-Sky-NoAerosol SW TOA Up		Y		
60	Tuned Total-Sky-NoAerosol LW Surface Up		Y		
61	Tuned Total-Sky-NoAerosol LW Surface Down		Y		
62	Tuned Total-Sky-NoAerosol LW TOA Up		Y		
63	Tuned Total-Sky-NoAerosol WN Surface Up		Y		
64	Tuned Total-Sky-NoAerosol WN Surface Down		Y		
65	Tuned Total-Sky-NoAerosol WN TOA Up		Y		
	Table 2.10-12. Tuned TotalSky Flux Profiles				
66	Total-sky Upward SW Flux Profile				Tuned Total-Sky SW Up
67	Total-sky Downward SW Flux Profile				Tuned Total-Sky SW Down
68	Total-sky Upward LW Flux Profile				Tuned Total-Sky LW Up
69	Total-sky Downward LW Flux Profile				Tuned Total-Sky LW Down
70	Tuned Total-Sky WN Up		Y		
71	Tuned Total-Sky WN Down		Y		
	Atmospheric Flux Profile for Total-sky - old table				
	Number of Atmospheric Layers	Y			
	Pressure - Atmospheric Layer	Y			

AVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.10-13. Untuned Pristine Fluxes				
72	Untuned Pristine SW Surface Up		Y		
73	Untuned Pristine SW Surface Down		Y		
74	Untuned Pristine SW TOA Up		Y		
75	Untuned Pristine LW Surface Up		Y		
76	Untuned Pristine LW Surface Down		Y		
77	Untuned Pristine LW TOA Up		Y		
78	Untuned Pristine WN Surface Up		Y		
79	Untuned Pristine WN Surface Down		Y		
80	Untuned Pristine WN TOA Up		Y		
	Table 2.10-14. Untuned ClearSky Fluxes				
81	Untuned Clear-Sky SW Surface Up		Y		
82	Untuned Clear-Sky SW Surface Down		Y		
83	Untuned Clear-Sky SW TOA Up		Y		
84	Untuned Clear-Sky LW Surface Up		Y		
85	Untuned Clear-Sky LW Surface Down		Y		
86	Untuned Clear-Sky LW TOA Up		Y		
87	Untuned Clear-Sky WN Surface Up		Y		
88	Untuned Clear-Sky WN Surface Down		Y		
89	Untuned Clear-Sky WN TOA Up		Y		
	Table 2.10-15. Untuned TotalSky-NoAerosol Fluxes				
90	Untuned Total-Sky-NoAerosol SW Surface Up		Y		
91	Untuned Total-Sky-NoAerosol SW Surface Down		Y		
92	Untuned Total-Sky-NoAerosol SW TOA Up		Y		
93	Untuned Total-Sky-NoAerosol LW Surface Up		Y		
94	Untuned Total-Sky-NoAerosol LW Surface Down		Y		
95	Untuned Total-Sky-NoAerosol LW TOA Up		Y		
96	Untuned Total-Sky-NoAerosol WN Surface Up		Y		
97	Untuned Total-Sky-NoAerosol WN Surface Down		Y		
98	Untuned Total-Sky-NoAerosol WN TOA Up		Y		

AVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.10-16. Untuned TotalSky Fluxes				
99	Untuned Total-Sky SW Surface Up		Y		
100	Untuned Total-Sky SW Surface Down		Y		
101	Untuned Total-Sky SW TOA Up		Y		
102	Untuned Total-Sky LW Surface Up		Y		
103	Untuned Total-Sky LW Surface Down		Y		
104	Untuned Total-Sky LW TOA Up		Y		
105	Untuned Total-Sky WN Surface Up		Y		
106	Untuned Total-Sky WN Surface Down		Y		
107	Untuned Total-Sky WN TOA Up		Y		
	Table 2.10-17. Satellite Emulated WN TOA Fluxes				
108	Untuned Satellite emulated WN TOA		Y		
109	Tuned Satellite emulated WN TOA		Y		
	Table 2.10-18. TOA Fluxes Error		Y		
110	Tuned-Observed SW TOA		Y		
111	Untuned-Observed SW TOA		Y		
112	Tuned-Observed LW TOA		Y		
113	Untuned-Observed LW TOA		Y		
	Table 2.10-19. Number of Hourboxes				
114	Number of Observed Total-Sky SW hourboxes		Y		
115	Number of Untuned Total-Sky SW hourboxes		Y		
116	Number of Tuned Total-Sky SW hourboxes		Y		
117	Number of Observed Total-Sky LW hourboxes		Y		
118	Number of Untuned Total-Sky LW hourboxes		Y		
119	Number of Tuned Total-Sky LW hourboxes		Y		
	Table 2.10-20. Constrainment Adjustments				
120	Total column precipitable water - initial		Y		
121	Clear-sky Adj Precipitable Water				Total column precipitable water - adjusted
122	Upper tropospheric precipitable water - initial		Y		
123	Upper tropospheric precipitable water - adjusted		Y		
124	Upper tropospheric humidity - initial		Y		
125	Upper tropospheric humidity - adjusted		Y		

AVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
126	Corrected Initial Broadband Surf Albedo				Corrected initial broadband surface albedo
127	Clear-sky Adj Surface Albedo				Surface albedo - adjusted
128	Aerosol optical depth - initial		Y		
129	Clear-sky Adj Aerosol Optical Depth				Aerosol optical depth - adjusted
130	Skin temperature - initial		Y		
131	Clear-sky Adj Skin Temperature				Skin temperature - adjusted
132	Surface pressure		Y		
133	Column ozone - initial		Y		
134	Col Wtd Adj Optical Depth - log				Mean visible optical depth - adjusted
135	Col Wtd Adj Cld Fractional Area				Mean cloud fractional area - adjusted
136	Col Wtd Adj Cld Effective Temperature				Mean cloud effective temperature - adjusted
	Surface Data - old table				
	Spectral Albedo	Y			
	Broadband Surface Albedo	Y			
	LW Surface Emissivity	Y			
	WN Surface Emissivity	Y			
	Imager_based Surf Skin Temp	Y			
	Photosynthetically Active Radiation	Y			
	Direct/Diffuse Ratio at Surface, mean	Y			
	Table 2.10-21. Surface SW Direct/Diffuse Fluxes				
137	Total-Sky SW flux - Diffuse		Y		
138	Clear-Sky SW flux - Diffuse		Y		
139	Pristine-Sky SW flux - Diffuse		Y		
140	Actinic-Sky SW flux - Diffuse		Y		
141	Total-Sky SW flux - Direct		Y		
142	Clear-Sky SW flux - Direct		Y		
143	Pristine-Sky SW flux - Direct		Y		
144	Actinic-Sky SW flux - Direct		Y		

AVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.10-22. UVA - UVB Fluxes				
145	TOA Downwelling UVB Flux		Y		
146	TOA Downwelling UVA Flux		Y		
147	Pristine UVB Surface Direct-Diffuse-Ratio		Y		
148	Pristine UVB Surface Downwelling Flux		Y		
149	Pristine UVA Surface Direct-Diffuse-Ratio		Y		
150	Pristine UVA Surface Downwelling Flux		Y		
151	Clear-Sky UVB Surface Direct-Diffuse-Ratio		Y		
152	Clear-Sky UVB Surface Downwelling Flux		Y		
153	Clear-Sky UVA Surface Direct-Diffuse-Ratio		Y		
154	Clear-Sky UVA Surface Downwelling Flux		Y		
155	Total-Sky-NoAerosol UVB Surface Direct-Diffuse-Ratio		Y		
156	Total-Sky-NoAerosol UVB Surface Downwelling Flux		Y		
157	Total-Sky-NoAerosol UVA Surface Direct-Diffuse-Ratio		Y		
158	Total-Sky-NoAerosol UVA Surface Downwelling Flux		Y		
159	Total-Sky UVB Surface Direct-Diffuse-Ratio		Y		
160	Total-Sky UVB Surface Downwelling Flux		Y		
161	Total-Sky UVA Surface Direct-Diffuse-Ratio		Y		
162	Total-Sky UVA Surface Downwelling Flux		Y		
163	Total-Sky Surface UV Index		Y		
164	Clear-Sky Surface UV Index		Y		
165	Pristine Surface UV Index		Y		
166	Total-Sky-NoAerosol Surface UV Index		Y		
	Table 2.10-23. PAR Fluxes				
167	TOA Downwelling PAR Flux		Y		
168	Total-Sky PAR Surface Flux		Y		
169	Total-Sky PAR Surface Direct-Diffuse-Ratio		Y		
170	Total-Sky PAR PURV Surface Flux		Y		
171	Total-Sky PAR PURV Surface Direct-Diffuse-Ratio		Y		
172	Total-Sky PAR ChlorA Surface Flux		Y		
173	Total-Sky PAR ChlorA Surface Direct-Diffuse-Ratio		Y		
174	Clear-Sky PAR Surface Flux		Y		
175	Clear-Sky PAR Surface Direct-Diffuse-Ratio		Y		
176	Pristine PAR Surface Flux		Y		
177	Pristine PAR Surface Direct-Diffuse-Ratio		Y		

AVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.10-24. Pristine-Sky SW MultiStream Correction				
178	SW TOA Flux - Up - Pristine-Sky - Corrected		Y		
179	SW Surface Flux - Down - Pristine-Sky - Corrected		Y		
	Flux Adjustments Clear-sky - sfc - old table				
	Clear-sky Downward Sfc SW Flux Adj	Y			
	Clear-sky Downward Sfc LW Flux Adj	Y			
	Clear-sky Upward Sfc SW Flux Adj	Y			
	Clear-sky Upward Sfc LW Flux Adj	Y			
	Clear-sky Upward TOA SW Flux Adj	Y			
	Clear-sky Upward TOA LW Flux Adj	Y			
	Flux Adjustments Total-sky - sfc - old table				
	Total-sky Downward Sfc SW Flux Adj	Y			
	Total-sky Downward Sfc LW Flux Adj	Y			
	Total-sky Upward Sfc SW Flux Adj	Y			
	Total-sky Upward Sfc LW Flux Adj	Y			
	Total-sky Upward TOA SW Flux Adj	Y			
	Total-sky Upward TOA LW Flux Adj	Y			
	Angular Model Scene Types - old table				
	Angular Model Incident Solar Flux	Y			
	Angular Model Fractional Area Coverage	Y			
	Angular Model Albedo, mean, stdev	Y			
	Angular Model LW Flux, mean, stdev	Y			
	Column Averaged Cloud Properties for 5 Weightings - old table				
	Col Wtd Total Cld Area Fraction	Y			
	Col Wtd Cld Effective Pressure	Y			
	Col Wtd Cld Effective Temperature	Y			
	Col Wtd Cld Effective Height	Y			
	Col Wtd Cld Top Pressure	Y			
	Col Wtd Cld Bottom Pressure	Y			
	Col Wtd Cld Particle Phase	Y			
	Col Wtd Liquid Water Path	Y			
	Col Wtd Ice Water Path	Y			

AVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Col Wtd Water Particle Radius	Y			
	Col Wtd Ice Particle Effective Diam	Y			
	Col Wtd Cld Visible Optical Depth - lin	Y			
	Col Wtd Cld Visible Optical Depth - log	Y			
	Col Wtd Infrared Emissivity	Y			
	Col Wtd Cld Vertical Aspect Ratio	Y			
	Adjustment Parameters for 4 Layers - old table				
	Adj Cld Layer Optical Depth	Y			
	Adj Cld Layer Fractional Area	Y			
	Adj Cld Layer Effective Temperature	Y			
	Overlap Data for 11 Cloud Conditions - old table				
	Overlap Condition Weighted Area Fraction	Y			

The following parameters have been removed, added, stayed the same, or had a name change.
This was one table in the Data Products Catalog which has been made into 21 tables.
(If "Removed," there will be no ZAVG No.)

ZAVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.11-4. Time and Position				
1	Region number		Y		
2	Colatitude		Y		
3	Longitude		Y		
4	Surface altitude				Surface altitude above sea level
5	Surface Type Percent Coverage				Surface type percent coverage
	Region Parameters - old table				
	Snow/Ice Percent Coverage	Y			
	Fire Percent Coverage	Y			
	Aerosol Percent Coverage	Y			
	Table 2.11-5. Observed TOA Fluxes				
6	Total-sky TOA SW Flux				SW TOA Total-Sky
7	Total-sky TOA LW Flux				LW TOA Total-Sky
8	Total-sky TOA WN Flux				WN TOA Total-Sky
9	Total-sky TOA Albedo				ALB TOA Total-Sky
10	Clear-sky TOA SW Flux				SW TOA Clear-Sky
11	Clear-sky TOA LW Flux				LW TOA Clear-Sky
12	Clear-sky TOA WN Flux				WN TOA Clear-Sky
13	Clear-sky TOA Albedo				ALB TOA Clear-Sky
	Table 2.11-6. Cloud Properties for Four Cloud Layers				
14	Cld Layer Total Cld Area Fraction				Area Fraction Percentage
15	Cld Layer Visible Optical Depth - lin				Vis. Opt. Depth (linear)
16	Cld Layer Visible Optical Depth - log				Vis. Opt. Depth (log)
17	Cld Layer Infrared Emissivity				Infrared Emissivity
18	Cld Layer Liquid Water Path				Liquid Water Path
19	Cld Layer Ice Water Path				Ice Water Path
20	Cld Layer Top Pressure				Top Pressure
21	Cld Layer Effective Pressure				Effective Pressure

ZAVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
22	Cld Layer Effective Temperature				Effective Temperature
23	Cld Layer Effective Height				Effective Height
24	Cld Layer Base Pressure				Bottom Pressure
25	Cld Layer Water Particle Radius				Liquid Particle Radius
26	Cld Layer Ice Particle Effective Diam				Ice Particle Diameter
27	Cld Layer Particle Phase				Particle Phase
28	Cld Layer Vertical Aspect Ratio				Vertical Aspect Ratio
	Table 2.11-7. Stowe-Ignatov Aerosol Optical Depth				
29	Total Aerosol Visible Optical Depth @ 0.63 microns				Aerosol visible optical depth - 0.63 μm
30	Total Aerosol Visible Optical Depth @ 1.6 microns				Aerosol visible optical depth - 1.6 μm
	Table 2.11-8. MODIS Aerosol Optical Depth				
31	Initial Aerosol Optical Depth		Y		
32	Aerosol Opt. Depth at 0.47 μm in Land		Y		
33	Aerosol Opt. Depth at 0.55 μm in Land		Y		
34	Aerosol Opt. Depth at 0.66 μm in Land		Y		
35	Aerosol Opt. Depth at 0.47 μm in Ocean		Y		
36	Aerosol Opt. Depth at 0.55 μm in Ocean		Y		
37	Aerosol Opt. Depth at 0.66 μm in Ocean		Y		
38	Aerosol Opt. Depth at 0.87 μm in Ocean		Y		
39	Aerosol Opt. Depth at 1.24 μm in Ocean		Y		
40	Aerosol Opt. Depth at 1.64 μm in Ocean		Y		
41	Aerosol Opt. Depth at 2.13 μm in Ocean		Y		
	Table 2.11-9. Tuned Pristine Fluxes				
42	Tuned Pristine SW Surface Up		Y		
43	Tuned Pristine SW Surface Down		Y		
44	Tuned Pristine SW TOA Up		Y		
45	Tuned Pristine LW Surface Up		Y		
46	Tuned Pristine LW Surface Down		Y		
47	Tuned Pristine LW TOA Up		Y		
48	Tuned Pristine WN Surface Up		Y		
49	Tuned Pristine WN Surface Down		Y		
50	Tuned Pristine WN TOA Up		Y		

ZAVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.11-10. Tuned ClearSky Flux Profiles				
51	Clear-sky Upward SW Flux Profile				Tuned Clear-Sky SW Up
52	Clear-sky Downward SW Flux Profile				Tuned Clear-Sky SW Down
53	Clear-sky Upward LW Flux Profile				Tuned Clear-Sky LW Up
54	Clear-sky Downward LW Flux Profile				Tuned Clear-Sky LW Down
55	Tuned Clear-Sky WN Up		Y		
56	Tuned Clear-Sky WN Down		Y		
	Table 2.11-11. Tuned TotalSky-NoAerosol Fluxes				
57	Tuned Total-Sky-NoAerosol SW Surface Up		Y		
58	Tuned Total-Sky-NoAerosol SW Surface Down		Y		
59	Tuned Total-Sky-NoAerosol SW TOA Up		Y		
60	Tuned Total-Sky-NoAerosol LW Surface Up		Y		
61	Tuned Total-Sky-NoAerosol LW Surface Down		Y		
62	Tuned Total-Sky-NoAerosol LW TOA Up		Y		
63	Tuned Total-Sky-NoAerosol WN Surface Up		Y		
64	Tuned Total-Sky-NoAerosol WN Surface Down		Y		
65	Tuned Total-Sky-NoAerosol WN TOA Up		Y		
	Table 2.11-12. Tuned TotalSky Flux Profiles				
66	Total-sky Upward SW Flux Profile				Tuned Total-Sky SW Up
67	Total-sky Downward SW Flux Profile				Tuned Total-Sky SW Down
68	Total-sky Upward LW Flux Profile				Tuned Total-Sky LW Up
69	Total-sky Downward LW Flux Profile				Tuned Total-Sky LW Down
70	Tuned Total-Sky WN Up		Y		
71	Tuned Total-Sky WN Down		Y		
	Atmospheric Flux Profile for Total-sky - old table				
	Number of Atmospheric Layers	Y			
	Pressure - Atmospheric Layer	Y			

ZAVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.11-13. Untuned Pristine Fluxes				
72	Untuned Pristine SW Surface Up		Y		
73	Untuned Pristine SW Surface Down		Y		
74	Untuned Pristine SW TOA Up		Y		
75	Untuned Pristine LW Surface Up		Y		
76	Untuned Pristine LW Surface Down		Y		
77	Untuned Pristine LW TOA Up		Y		
78	Untuned Pristine WN Surface Up		Y		
79	Untuned Pristine WN Surface Down		Y		
80	Untuned Pristine WN TOA Up		Y		
	Table 2.11-14. Untuned ClearSky Fluxes				
81	Untuned Clear-Sky SW Surface Up		Y		
82	Untuned Clear-Sky SW Surface Down		Y		
83	Untuned Clear-Sky SW TOA Up		Y		
84	Untuned Clear-Sky LW Surface Up		Y		
85	Untuned Clear-Sky LW Surface Down		Y		
86	Untuned Clear-Sky LW TOA Up		Y		
87	Untuned Clear-Sky WN Surface Up		Y		
88	Untuned Clear-Sky WN Surface Down		Y		
89	Untuned Clear-Sky WN TOA Up		Y		
	Table 2.11-15. Untuned TotalSky-NoAerosol Fluxes				
90	Untuned Total-Sky-NoAerosol SW Surface Up		Y		
91	Untuned Total-Sky-NoAerosol SW Surface Down		Y		
92	Untuned Total-Sky-NoAerosol SW TOA Up		Y		
93	Untuned Total-Sky-NoAerosol LW Surface Up		Y		
94	Untuned Total-Sky-NoAerosol LW Surface Down		Y		
95	Untuned Total-Sky-NoAerosol LW TOA Up		Y		
96	Untuned Total-Sky-NoAerosol WN Surface Up		Y		
97	Untuned Total-Sky-NoAerosol WN Surface Down		Y		
98	Untuned Total-Sky-NoAerosol WN TOA Up		Y		

ZAVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.11-16. Untuned TotalSky Fluxes				
99	Untuned Total-Sky SW Surface Up		Y		
100	Untuned Total-Sky SW Surface Down		Y		
101	Untuned Total-Sky SW TOA Up		Y		
102	Untuned Total-Sky LW Surface Up		Y		
103	Untuned Total-Sky LW Surface Down		Y		
104	Untuned Total-Sky LW TOA Up		Y		
105	Untuned Total-Sky WN Surface Up		Y		
106	Untuned Total-Sky WN Surface Down		Y		
107	Untuned Total-Sky WN TOA Up		Y		
	Table 2.11-17. Satellite Emulated WN TOA Fluxes				
108	Untuned Satellite emulated WN TOA		Y		
109	Tuned Satellite emulated WN TOA		Y		
	Table 2.11-18. TOA Fluxes Error		Y		
110	Tuned-Observed SW TOA		Y		
111	Untuned-Observed SW TOA		Y		
112	Tuned-Observed LW TOA		Y		
113	Untuned-Observed LW TOA		Y		
	Table 2.11-19. Number of Hourboxes				
114	Number of Observed Total-Sky SW hourboxes		Y		
115	Number of Untuned Total-Sky SW hourboxes		Y		
116	Number of Tuned Total-Sky SW hourboxes		Y		
117	Number of Observed Total-Sky LW hourboxes		Y		
118	Number of Untuned Total-Sky LW hourboxes		Y		
119	Number of Tuned Total-Sky LW hourboxes		Y		
	Table 2.11-20. Constrainment Adjustments				
120	Total column precipitable water - initial		Y		
121	Clear-sky Adj Precipitable Water				Total column precipitable water - adjusted
122	Upper tropospheric precipitable water - initial		Y		
123	Upper tropospheric precipitable water - adjusted		Y		
124	Upper tropospheric humidity - initial		Y		
125	Upper tropospheric humidity - adjusted		Y		

ZAVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
126	Corrected Initial Broadband Surf Albedo				Corrected initial broadband surface albedo
127	Clear-sky Adj Surface Albedo				Surface albedo - adjusted
128	Aerosol optical depth - initial		Y		
129	Clear-sky Adj Aerosol Optical Depth				Aerosol optical depth - adjusted
130	Skin temperature - initial		Y		
131	Clear-sky Adj Skin Temperature				Skin temperature - adjusted
132	Surface pressure		Y		
133	Column ozone - initial		Y		
134	Col Wtd Adj Optical Depth - log				Mean visible optical depth - adjusted
135	Col Wtd Adj Cld Fractional Area				Mean cloud fractional area - adjusted
136	Col Wtd Adj Cld Effective Temperature				Mean cloud effective temperature - adjusted
	Surface Data - old table				
	Spectral Albedo	Y			
	Broadband Surface Albedo	Y			
	LW Surface Emissivity	Y			
	WN Surface Emissivity	Y			
	Imager_based Surf Skin Temp	Y			
	Photosynthetically Active Radiation	Y			
	Direct/Diffuse Ratio at Surface, mean	Y			
	Table 2.11-21. Surface SW Direct/Diffuse Fluxes				
137	Total-Sky SW flux - Diffuse		Y		
138	Clear-Sky SW flux - Diffuse		Y		
139	Pristine-Sky SW flux - Diffuse		Y		
140	Actinic-Sky SW flux - Diffuse		Y		
141	Total-Sky SW flux - Direct		Y		
142	Clear-Sky SW flux - Direct		Y		
143	Pristine-Sky SW flux - Direct		Y		
144	Actinic-Sky SW flux - Direct		Y		

ZAVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.11-22. UVA - UVB Fluxes				
145	TOA Downwelling UVB Flux		Y		
146	TOA Downwelling UVA Flux		Y		
147	Pristine UVB Surface Direct-Diffuse-Ratio		Y		
148	Pristine UVB Surface Downwelling Flux		Y		
149	Pristine UVA Surface Direct-Diffuse-Ratio		Y		
150	Pristine UVA Surface Downwelling Flux		Y		
151	Clear-Sky UVB Surface Direct-Diffuse-Ratio		Y		
152	Clear-Sky UVB Surface Downwelling Flux		Y		
153	Clear-Sky UVA Surface Direct-Diffuse-Ratio		Y		
154	Clear-Sky UVA Surface Downwelling Flux		Y		
155	Total-Sky-NoAerosol UVB Surface Direct-Diffuse-Ratio		Y		
156	Total-Sky-NoAerosol UVB Surface Downwelling Flux		Y		
157	Total-Sky-NoAerosol UVA Surface Direct-Diffuse-Ratio		Y		
158	Total-Sky-NoAerosol UVA Surface Downwelling Flux		Y		
159	Total-Sky UVB Surface Direct-Diffuse-Ratio		Y		
160	Total-Sky UVB Surface Downwelling Flux		Y		
161	Total-Sky UVA Surface Direct-Diffuse-Ratio		Y		
162	Total-Sky UVA Surface Downwelling Flux		Y		
163	Total-Sky Surface UV Index		Y		
164	Clear-Sky Surface UV Index		Y		
165	Pristine Surface UV Index		Y		
166	Total-Sky-NoAerosol Surface UV Index		Y		
	Table 2.11-23. PAR Fluxes				
167	TOA Downwelling PAR Flux		Y		
168	Total-Sky PAR Surface Flux		Y		
169	Total-Sky PAR Surface Direct-Diffuse-Ratio		Y		
170	Total-Sky PAR PURV Surface Flux		Y		
171	Total-Sky PAR PURV Surface Direct-Diffuse-Ratio		Y		
172	Total-Sky PAR ChlorA Surface Flux		Y		
173	Total-Sky PAR ChlorA Surface Direct-Diffuse-Ratio		Y		
174	Clear-Sky PAR Surface Flux		Y		
175	Clear-Sky PAR Surface Direct-Diffuse-Ratio		Y		
176	Pristine PAR Surface Flux		Y		
177	Pristine PAR Surface Direct-Diffuse-Ratio		Y		

ZAVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Table 2.11-24. Pristine-Sky SW MultiStream Correction				
178	SW TOA Flux - Up - Pristine-Sky - Corrected		Y		
179	SW Surface Flux - Down - Pristine-Sky - Corrected		Y		
	Flux Adjustments Clear-sky - sfc - old table				
	Clear-sky Downward Sfc SW Flux Adj	Y			
	Clear-sky Downward Sfc LW Flux Adj	Y			
	Clear-sky Upward Sfc SW Flux Adj	Y			
	Clear-sky Upward Sfc LW Flux Adj	Y			
	Clear-sky Upward TOA SW Flux Adj	Y			
	Clear-sky Upward TOA LW Flux Adj	Y			
	Flux Adjustments Total-sky - sfc - old table				
	Total-sky Downward Sfc SW Flux Adj	Y			
	Total-sky Downward Sfc LW Flux Adj	Y			
	Total-sky Upward Sfc SW Flux Adj	Y			
	Total-sky Upward Sfc LW Flux Adj	Y			
	Total-sky Upward TOA SW Flux Adj	Y			
	Total-sky Upward TOA LW Flux Adj	Y			
	Angular Model Scene Types - old table				
	Angular Model Incident Solar Flux	Y			
	Angular Model Fractional Area Coverage	Y			
	Angular Model Albedo, mean, stdev	Y			
	Angular Model LW Flux, mean, stdev	Y			
	Column Averaged Cloud Properties for 5 Weightings - old table				
	Col Wtd Total Cld Area Fraction	Y			
	Col Wtd Cld Effective Pressure	Y			
	Col Wtd Cld Effective Temperature	Y			
	Col Wtd Cld Effective Height	Y			
	Col Wtd Cld Top Pressure	Y			
	Col Wtd Cld Base Pressure	Y			
	Col Wtd Cld Particle Phase	Y			
	Col Wtd Liquid Water Path	Y			
	Col Wtd Ice Water Path	Y			

ZAVG No.	Parameter	Removed	Added	Stayed the Same	Name Change
	Col Wtd Water Particle Radius	Y			
	Col Wtd Ice Particle Effective Diam	Y			
	Col Wtd Cld Visible Optical Depth - lin	Y			
	Col Wtd Cld Visible Optical Depth - log	Y			
	Col Wtd Infrared Emissivity	Y			
	Col Wtd Cld Vertical Aspect Ratio	Y			
	Adjustment Parameters for 4 Layers - old table				
	Adj Cld Layer Optical Depth	Y			
	Adj Cld Layer Fractional Area	Y			
	Adj Cld Layer Effective Temperature	Y			
	Overlap Data for 11 Cloud Conditions - old table				
	Overlap Condition Weighted Area Fraction	Y			