

Level-3 Aerosol Parameter Mapping Table (C005/051 to C006)

See Green shaded boxes for Final Aerosol L3 Parameter Names

Combined Land and Ocean

Input L2 SDS	Old C005/051 L3 SDS	New C006 L3 SDS	L3 Statistics
Scattering_Angle	Scattering_Angle	Aerosol_Scattering_Angle *	S, PC, HC
Optical_Depth_Land_And_Ocean	Optical_Depth_Land_And_Ocean	Aerosol_Optical_Depth_Land_Ocean *	S, PC, HC
Average_Cloud_Pixel_Distance_Land_Ocean	(not in C005/051)	Aerosol_Avg_Cloud_Distance_Land_Ocean *	S, PC

* Note that these three "Combined Land and Ocean" parameters are the ONLY Aerosol related parameters that are NOT being "masked by the Usefulness Flag" in L3 (since no Combined Land and Ocean Usefulness QA exists in L2)

Land Only

Input L2 SDS	Old C005/051 L3 SDS	New C006 L3 SDS	L3 Statistics
Corrected_Optical_Depth_Land	Corrected_Optical_Depth_Land	Aerosol_Optical_Depth_Land	S, QA, HC
Number_Pixels_Used_Land	Number_Pixels_Used_Land	Aerosol_Number_Pixels_Used_Land	S, QA, HC

Deep Blue Aerosol & Deep Blue/Dark Target Combined

Input L2 SDS	Old C005/051 L3 SDS	New C006 L3 SDS	L3 Statistics
Deep_Blue_Spectral_Aerosol_Optical_Depth_Land	Deep_Blue_Aerosol_Optical_Depth_Land	Deep_Blue_Aerosol_Optical_Depth_Land	S, HC
Deep_Blue_Aerosol_Optical_Depth_550_Land	Deep_Blue_Aerosol_Optical_Depth_550_Land	Deep_Blue_Aerosol_Optical_Depth_550_Land	S, HC
Deep_Blue_Angstrom_Exponent_Land	Deep_Blue_Angstrom_Exponent_Land	Deep_Blue_Angstrom_Exponent_Land	S, HC
Deep_Blue_Spectral_Single_Scattering_Albedo_Land	Deep_Blue_Single_Scattering_Albedo_Land	Deep_Blue_Single_Scattering_Albedo_Land	S, HC
Deep_Blue_Number_Pixels_Used_550_Land	(not in C005/051)	Deep_Blue_Number_Pixels_Used_550_Land	S, HC
AOD_550_Dark_Target_Deep_Blue_Combined	(not in C005/051)	AOD_550_Dark_Target_Deep_Blue_Combined	S, HC

Ocean Only

Input L2 SDS	Old C005/051 L3 SDS	New C006 L3 SDS	L3 Statistics
Effective_Optical_Depth_Average_Ocean	Effective_Optical_Depth_Average_Ocean	Aerosol_Optical_Depth_Average_Ocean	S, QA, HC
Optical_Depth_Small_Average_Ocean	(not in C005/051)	Aerosol_Optical_Depth_Small_Ocean	S, QA, HC
PSML003_Ocean	Cloud_Condensation_Nuclei_Ocean	Aerosol_PSML003_Ocean	S, QA, HC
Optical_Depth_by_models_ocean	Optical_Depth_by_models_ocean	Aerosol_Optical_Depth_by_models_ocean	S, QA
Number_Pixels_Used_Ocean	Number_Pixels_Used_Ocean	Aerosol_Number_Pixels_Used_Ocean	S, QA, HC

NEW JOINT HISTOGRAMS:

Ocean (Joint Histograms ONLY)

Input L2 SDS #1	Input L2 SDS #2	New C006 L3 SDS	L3 Statistics
Angstrom_Exponent_1_Ocean	Effective_Optical_Depth_0p55um_Ocean	Aerosol_AE1_Ocean_Joint_Histogram_vs_Opt_Depth	JH only
Angstrom_Exponent_2_Ocean	Effective_Optical_Depth_0p55um_Ocean	Aerosol_AE2_Ocean_Joint_Histogram_vs_Opt_Depth	JH only
Optical_Depth_Ratio_Small_Ocean_0.55micron	Effective_Optical_Depth_0p55um_Ocean	Aerosol_OD_Ratio_Small_Ocean_055_Joint_Histogram_vs_Opt_Depth	JH only

L3 Statistics Key: S = Simple QA = QA Weighted HC = Histogram Counts PC = Pixel Counts JH = Joint Histogram

Deleted Aerosol L3 Parameters for C006

Combined Land and Ocean

Input L2 SDS	Old C005/051 L3 SDS	C006 L3 SDS	L3 Statistics
	Optical_Depth_Ratio_Small_Land_And_Ocean	(deleted from C006)	(none)
	Reflected_Flux_Land_And_Ocean	(deleted from C006)	(none)

Land Only

Input L2 SDS	Old C005/051 L3 SDS	C006 L3 SDS	L3 Statistics
	Optical_Depth_Ratio_Small_Land	(deleted from C006)	(none)
	Mass_Concentration_Land	(deleted from C006)	(none)
	Angstrom_Exponent_Land	(deleted from C006)	(none)
	Mean_Reflectance_Land_All_QA47	(deleted from C006)	(none)
	Mean_Reflectance_Land_All_QA66	(deleted from C006)	(none)
	Path_Radiance_Land_QA47	(deleted from C006)	(none)
	Path_Radiance_Land_QA66	(deleted from C006)	(none)
	Critical_Reflectance_Land_QA47	(deleted from C006)	(none)
	Critical_Reflectance_Land_QA66	(deleted from C006)	(none)
	Aerosol_Cloud_Mask_Cloud_Fraction_Land	(deleted from C006)	(none)

Ocean Only

Input L2 SDS	Old C005/051 L3 SDS	C006 L3 SDS	L3 Statistics
	Optical_Depth_Ratio_Small_Ocean	(deleted from C006)	(none)
	Effective_Radius_Ocean	(deleted from C006)	(none)
	Mass_Concentration_Ocean	(deleted from C006)	(none)
	Cloud_Condensation_Nuclei_Ocean	(deleted from C006)	(none)
	Angstrom_Exponent_1_Ocean	(deleted from C006)	(none)
	Angstrom_Exponent_2_Ocean	(deleted from C006)	(none)
	Asymmetry_Factor_Average_Ocean	(deleted from C006)	(none)
	Backscattering_Ratio_Average_Ocean	(deleted from C006)	(none)
	Aerosol_Cloud_Mask_Cloud_Fraction_Ocean	(deleted from C006)	(none)