

# CERES Aqua Revision\_1 Table

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		All Sky		Clear Ocean				All Sky		Clear Ocean				All Sky		Clear Ocean	
Year	Month	FM3	FM4	FM3	FM4	Year	Month	FM3	FM4	FM3	FM4	Year	Month	FM3	FM4	FM3	FM4
2002	Jul	1.000	1.000	1.000	1.000	2005	Jan	1.009	1.007	1.016	1.011	2008	Jan	1.009	n/a	1.016	n/a
	Aug	1.000	1.000	1.001	1.000		Feb	1.009	1.007	1.016	1.011		Feb	1.009	n/a	1.016	n/a
	Sep	1.001	1.000	1.003	1.000		Mar	1.009	1.007	1.016	1.011		Mar	1.009	n/a	1.016	n/a
	Oct	1.002	1.000	1.005	1.000		Apr	1.009	n/a	1.016	n/a		Apr	1.009	n/a	1.016	n/a
	Nov	1.002	1.000	1.005	1.002		May	1.009	n/a	1.016	n/a		May	1.009	n/a	1.016	n/a
	Dec	1.002	1.001	1.005	1.004		Jun	1.009	n/a	1.016	n/a		Jun	1.009	n/a	1.016	n/a
2003	Jan	1.002	1.001	1.005	1.007		Jul	1.009	n/a	1.016	n/a		Jul	1.009	n/a	1.016	n/a
	Feb	1.002	1.002	1.007	1.007		Aug	1.009	n/a	1.016	n/a		Aug	1.009	n/a	1.016	n/a
	Mar	1.003	1.002	1.008	1.007		Sep	1.009	n/a	1.016	n/a		Sep	1.009	n/a	1.016	n/a
	Apr	1.003	1.002	1.008	1.007		Oct	1.009	n/a	1.016	n/a		Oct	1.009	n/a	1.016	n/a
	May	1.003	1.002	1.007	1.007		Nov	1.009	n/a	1.016	n/a		Nov	1.009	n/a	1.016	n/a
	Jun	1.003	1.002	1.007	1.006		Dec	1.009	n/a	1.016	n/a		Dec	1.009	n/a	1.016	n/a
	Jul	1.003	1.003	1.007	1.007	2006	Jan	1.009	n/a	1.016	n/a	2009	Jan	1.009	n/a	1.016	n/a
	Aug	1.004	1.003	1.009	1.007		Feb	1.009	n/a	1.016	n/a		Feb	1.009	n/a	1.016	n/a
	Sep	1.004	1.003	1.010	1.007		Mar	1.009	n/a	1.016	n/a		Mar	1.009	n/a	1.016	n/a
	Oct	1.004	1.003	1.011	1.007		Apr	1.009	n/a	1.016	n/a		Apr	1.009	n/a	1.016	n/a
	Nov	1.004	1.003	1.011	1.007		May	1.009	n/a	1.016	n/a		May	1.009	n/a	1.016	n/a
	Dec	1.005	1.003	1.010	1.007		Jun	1.009	n/a	1.016	n/a		Jun	1.009	n/a	1.016	n/a
2004	Jan	1.005	1.003	1.010	1.007		Jul	1.009	n/a	1.016	n/a		Jul	1.009	n/a	1.016	n/a
	Feb	1.005	1.003	1.010	1.007		Aug	1.009	n/a	1.016	n/a		Aug	1.009	n/a	1.016	n/a
	Mar	1.005	1.003	1.011	1.007		Sep	1.009	n/a	1.016	n/a		Sep	1.009	n/a	1.016	n/a
	Apr	1.005	1.003	1.011	1.007		Oct	1.009	n/a	1.016	n/a		Oct	1.009	n/a	1.016	n/a
	May	1.005	1.003	1.013	1.007		Nov	1.009	n/a	1.016	n/a		Nov	1.009	n/a	1.016	n/a
	Jun	1.006	1.003	1.012	1.007		Dec	1.009	n/a	1.016	n/a		Dec	1.009	n/a	1.016	n/a
	Jul	1.006	1.003	1.013	1.007	2007	Jan	1.009	n/a	1.016	n/a	2010	Jan	1.009	n/a	1.016	n/a
	Aug	1.006	1.003	1.013	1.007		Feb	1.009	n/a	1.016	n/a		Feb	1.009	n/a	1.016	n/a
	Sep	1.006	1.003	1.014	1.007		Mar	1.009	n/a	1.016	n/a						
	Oct	1.006	1.003	1.015	1.007		Apr	1.009	n/a	1.016	n/a						
	Nov	1.008	1.006	1.017	1.010		May	1.009	n/a	1.016	n/a						
	Dec	1.009	1.007	1.016	1.011		Jun	1.009	n/a	1.016	n/a						
					Jul		1.009	n/a	1.016	n/a							
					Aug		1.009	n/a	1.016	n/a							
					Sep		1.009	n/a	1.016	n/a							
					Oct		1.009	n/a	1.016	n/a							
					Nov		1.009	n/a	1.016	n/a							
					Dec		1.009	n/a	1.016	n/a							

## Application Instructions

The above table presents scaling factors which users should apply to select CERES SW parameters on the data product versions listed in the matrix below. For specific lists of the parameters to which these Aqua Rev1 corrections should be applied and instructions on how to do so, refer to the *User Applied Revisions for Current Edition* section in the Data Quality Summary that corresponds to the data set in question.

The All-sky values should be used unless a user is interested in looking specifically at clear ocean scenes, in this case the clear ocean values should be used. The clear-ocean values were determined by analyzing the ERBE-Like clear ocean scenes as determined by the ERBE Like scene ID. The user should not attempt to combine the all-sky and clear ocean factors in a common study.

Data Product	Applicable Versions
BDS	All Edition2
ES8	
ES4	
ES9	
SSF	All Edition1x and Edition2x
CRS	
FSW	
SFC	
SRBAVG	

## Reference

Matthews, G. , K. Priestley, P. Spence, D. Cooper, and D. Walikainen, "Compensation for spectral darkening of short wave optics occurring on the Clouds and the Earth's Radiant Energy System," in *Earth Observing Systems X*, edited by James J. Butler, Proceedings of SPIE Vol. 5882 (SPIE, Bellingham, WA, 2005) Article 588212.

