

***Interactive comment on “Updated MISR  
Dark-Water Research Aerosol Retrieval Algorithm  
– Part 1: Empirical Calibration Corrections and  
Coupled 1.1 km Ocean-Surface Chlorophyll-a  
Retrievals” by James A. Limbacher and  
Ralph A. Kahn***

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This paper describes an updated MISR research algorithm for aerosol and chlorophyll retrieval over Case 1 waters. The improvements include a standard explicit model of underlight as a function of Chl, and, importantly, improvements in calibration, including new de-trending analysis particularly important for climate research applications. This is a solid work that needs to be published with minor revision.

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General comment: While generally the paper is written reasonably well, an improvement in structure/logic would be very helpful. Currently, the text unfolds almost unstructured as a story: the details of algorithm are mixed with calibration, past and new work, and at some point it becomes rather confusing as to what new is specifically done here. It could help if you could structure these things upfront in Introduction.

My specific comments are provided in pdf attachment.

Alexei.

Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/amt-2016-360/amt-2016-360-RC2-supplement.pdf>

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Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2016-360, 2016.

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