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Effect of Bio-Optical Parameter Variability on the Remote Estimation of Chlorophyll-a Concentration in Turbid Productive Waters: Experimental Results—Erratum

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Effect of bio-optical parameter variability on the remote estimation of chlorophyll-a concentration in turbid productive waters: experimental results – erratum

Giorgio Dall'Olmo and Anatoly A. Gitelson

In the original publication [Dall'Olmo and Gitelson, Appl. Opt. **44**, 412 (2005)], certain information was presented inaccurately. These inaccuracies are corrected here. © 2005 Optical Society of America
OCIS codes: 010.4450, 280.0280.

In the original paper by Dall'Olmo and Gitelson,¹ please note the following corrections. On page 417, left column, last two lines: “as high as a factor of 1% and 10%, respectively.^{22,45}” should read “as high as a

On page 420, Table 4, the first and third band combinations (column 1) are incorrect. Also, the a_0 coefficient for Gons, 1999 is not significant. The corrected Table 4 follows:

Table 4. Results of the Model Validation^a

Band Combination	a_0 (STE)	a_1 (STE)	RMSE of [Chla] Prediction (mg m ⁻³)	RMS	RMS _{>10}	r^2
$R_{rs}^{-1}(673)R_{rs}(735)$	-8 (3)	0.99 (0.04)	13.7	0.40	0.30	0.91
$R_{rs}^{-1}(665)R_{rs}(725)$	-9 (3)	1.04 (0.04)	14.2	0.47	0.36	0.91
$[R_{rs}^{-1}(671) - R_{rs}^{-1}(710)]R_{rs}(740)$	-	0.93 (0.03)	15.1	0.45	0.25	0.88
$R_{rs}^{-1}(675)R_{rs}(705)$	-13 (5)	1.31 (0.08)	28.3	0.71	0.48	0.84
Reflectance height	13 (4)	0.55 (0.06)	28.5	0.48	0.43	0.57
Gons, 1999	-	2.31 (0.16)	77.1	0.77	0.76	0.74

^a a_0 and a_1 are the intercepts and slopes (with corresponding standard errors in brackets), respectively, of the best linear fits between observed and predicted [Chla] values. RMSE is the root-mean-squared error. RMS is the relative RMSE; RMS_{>10} is the RMS computed excluding stations with [Chla] < 10 mg m⁻³. Slopes in bold were significantly different from one ($p < 0.05$). Only intercepts significantly different from zero ($p < 0.05$) were included. The number of samples was 58.

factor of 2 and 10%, respectively.^{22,45}

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On page 420, left column, second paragraph, line two, “(1.33)” should read “(1.31)”; line five, “($p > 0.05$)” should read “($p < 0.05$)”; line six, “the RMS ~ 0.48” should read “the RMS ~ 0.71.”

Reference

1. G. Dall'Olmo and A. A. Gitelson, “Effect of bio-optical parameter variability on the remote estimation of chlorophyll-a concentration in turbid productive waters: experimental results,” Appl. Opt. **44**, 412–422 (2005).