Table 4. Statistical Relationships Between the Average Chla Concentration Within the Surface Layer, [Chla]_{surf}, and the Chla Integrated Content Within the Euphotic Layer, $\langle \text{Chla} \rangle_{Zeu}$, and Within the 0–1.5 Z_{eu} Layer, $\langle \text{Chla} \rangle_{1.5}$ Z_{eu}

Present Study		MB89
	Stratified Waters	
For [Chla] _{surf} ≤ 1 mg m ⁻³ $\langle \text{Chla} \rangle_{\text{targ}} = 3.57 \text{ b}$ n = 1743, $\text{r}^2 = 0.73$, p < 0.001 $\langle \text{Chla} \rangle_{1.5Zeu} = 42.0 [\text{Chla}]_{\text{surf}} {}^{0.248}$, b n = 1129, $\text{r}^2 = 0.43$, p < 0.001 For [Chla] _{surf} > 1 mg m ⁻³ $\langle \text{Chla} \rangle_{\text{targ}} > 1$ mg m ⁻³ $\langle \text{Chla} \rangle_{\text{targ}} = 37.7 [\text{Chla}]_{\text{surf}} {}^{0.615}$, b n = 78, $\text{r}^2 = 0.70$, p < 0.001 $\langle \text{Chla} \rangle_{1.5Zeu} = 43.5 [\text{Chla}]_{\text{surf}} {}^{0.847}$, b = 59, $\text{r}^2 = 0.68$, p < 0.001		$\langle \mathrm{Chl}a \rangle_{\mathrm{Zeu}} = 38.0 [\mathrm{Chla}]_{\mathrm{surf}}^{0.425}$ $\langle \mathrm{Chl}a \rangle_{\mathrm{Zeu}} = 40.2 [\mathrm{Chla}]_{\mathrm{surf}}^{0.507}$
$ \begin{array}{l} \langle Chla \rangle_{Zeu} = 42.1 [Chla]_{surf}^{0.538 \ b} \ n = 598, \ r^2 = 0.95, \ p < 0.001 \\ \langle Chla \rangle_{1.5Zeu} = 58.5 [Chla]_{surf}^{0.546 \ b} \ n = 489, \ r^2 = 0.90, \ p < 0.001 \end{array} $	Mixed Waters	$\langle \text{Chl}a \rangle_{\text{Zeu}} = 38.0 [\text{Chla}]_{\text{surf}}^{0.551}$

^aThe relationships obtained by MB89 are also reproduced. [Chla]_{surf} values are given in mg m⁻³, and \langle Chl $a\rangle$ _{Zeu} and \langle Chl $a\rangle$ _{1.5 Zeu} values are given in mg m⁻². ^bSee equation (8) in text.