

Table 3 . Empirical relationships obtained between the particulate backscattering coefficient (b_{bp}) and the concentration of chlorophyll *a* (Chl*a*) for the different layers of the water column considered in this study. We also indicate the associated statistics: Root Mean Squared Error (RMSE) and coefficient of determination R^2 for the significance level of $p < 0.001$

Empirical relationship	Layer in the water column	R^2	RMSE	Number of data
$b_{bp}(700) = 0.00174 \times (Chl a)^{0.360}$	Z_{pd}	0.6311	0.000942	5253
$b_{bp}(700) = 0.00171 \times (Chl a)^{0.373}$	MLD	0.6167	0.000932	8743
$b_{bp}(700) = 0.00147 \times (Chl a)^{0.753}$	DCM	0.5667	0.00104	1628
$b_{bp}(700) = 0.00181 \times (Chl a)^{0.605}$	$1.5 \times Z_{eu}$	0.7443	0.000967	5250