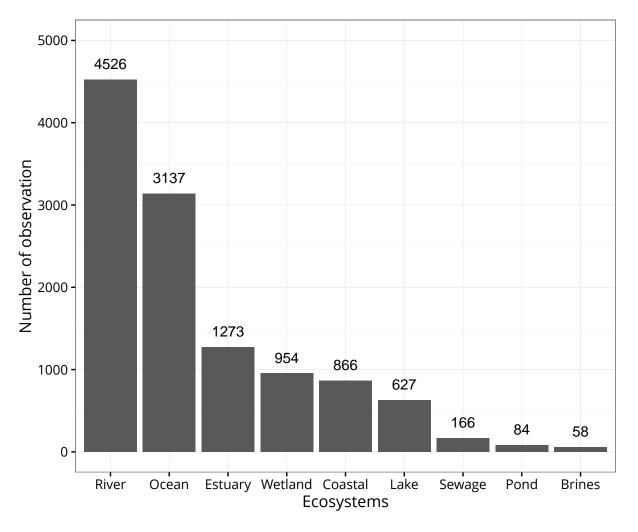
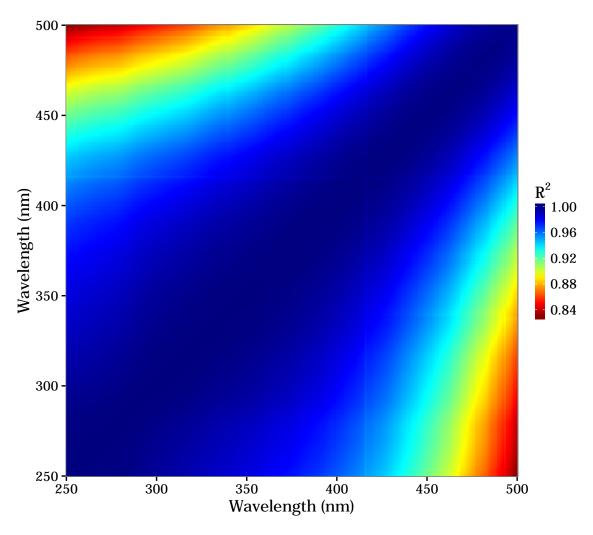
## My neat title here

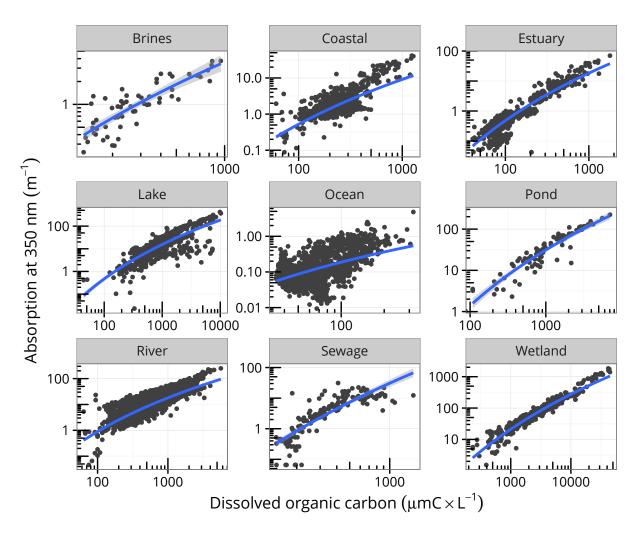
## **Supplementary materials**



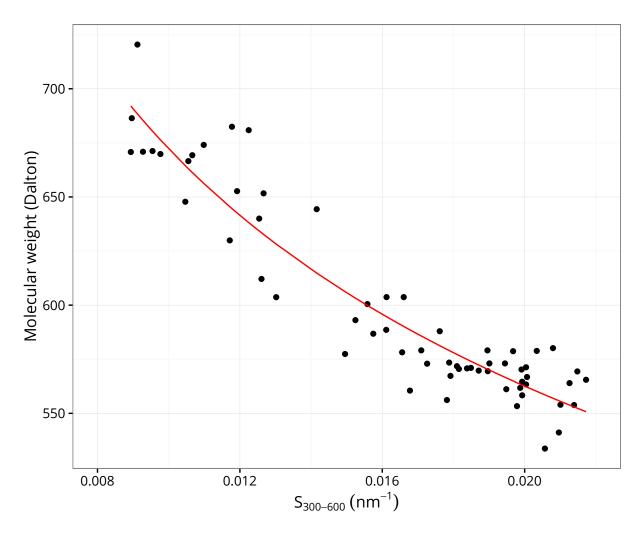
**Supplementary Fig. 1:** Barplot showing the number of unique observations in each ecosystem.



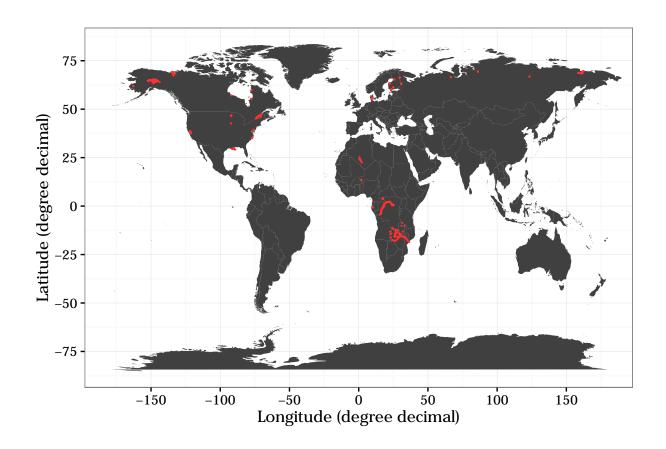
**Supplementary Fig. 2:** Heat map showing the determination coefficients ( $R^2$ ) of the linear regressions between absorption values for each pair of wavelengths between 250 and 500 nm (n = 63001). Each regression is based on 2194 observations. Note that the diagonal of the plot shows  $R^2 = 1$ .



**Supplementary Fig. 3:** Log-linear relationship bewteen  $a_{CDOM}(350)$  and DOC divided by ecosystems. The blue line is the fitted values of a linear model y = log(x). The shaded areas repesent the 95% confidence intervals. A total of 11562 observations are distributed across all panels (see supplementary Fig. 1 for details).



**Supplementary Fig. 4:** Power regression between molecular weight and spectral slope calculated between 300 and 600 nm  $(S_{300-600})$ . Data have been extracted from Stedmon 2015. One outlier was removed from the analysis. Equation of the model:  $y=205.81x^{-0.26}, R^2=0.88, n=62$ .



**Supplementary Fig. 5:** World map showing the river observations used to produce Fig. xxx.