



**Figure S1** Comparisons at FTWake deployment of (a) HPLC-based Chl concentration (blue points) with the concomitant float Chl profile (continuous black line) and (b) *in situ*  $\text{NO}_3^-$  estimates (from laboratory analyses; purple points with the error bar representing the standard deviation) and concomitant  $\text{NO}_3^-$  profile (continuous black line). No error bars are plotted for HPLC-based Chl estimations in panel (a) because two values maximum are available for each depth.

5