

Supplementary Material

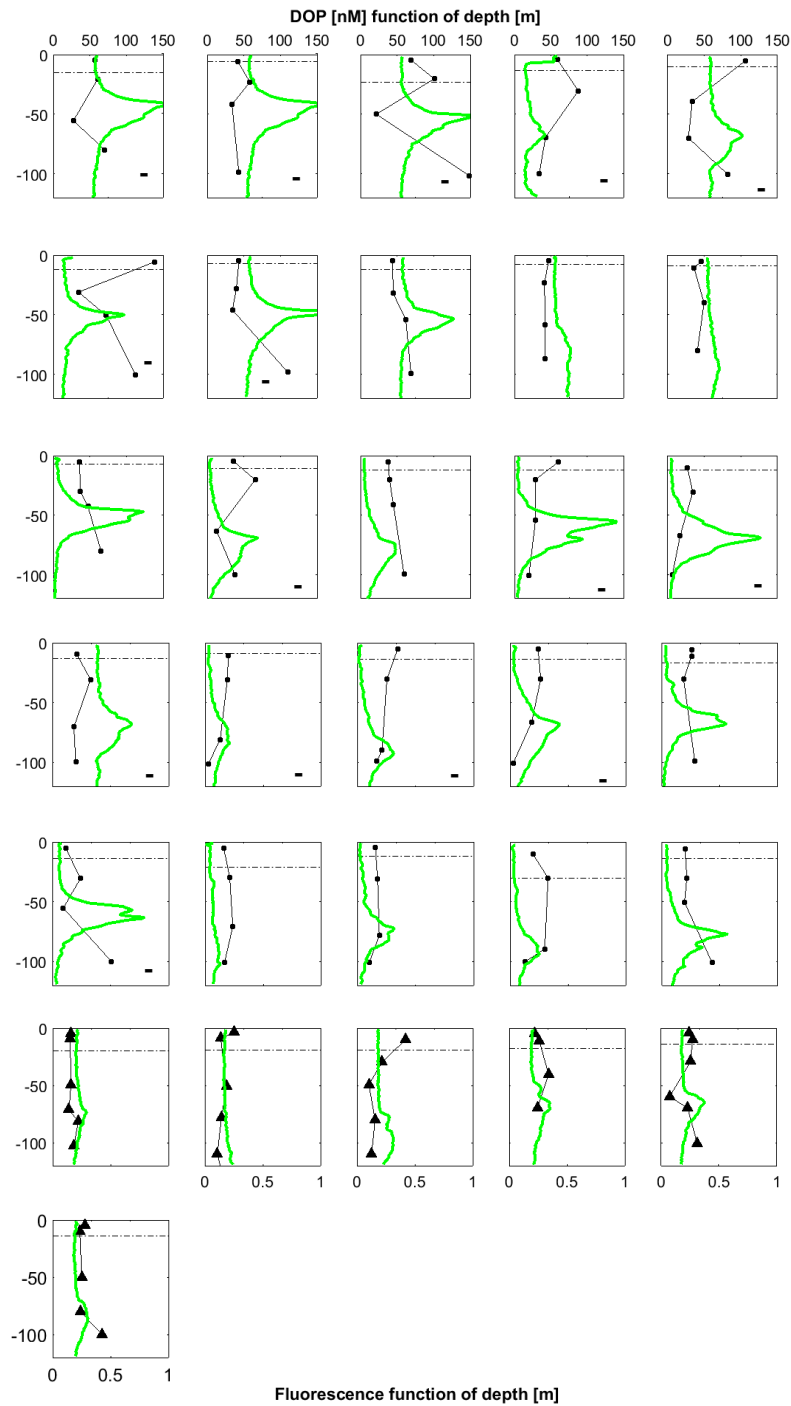
Sensitive determination of the dissolved phosphate pool for an improved resolution of its vertical variability in the surface layer: New views in the P-depleted Mediterranean Sea

Djaoudi, K*, Van Wambeke, F., Coppola, L., D'Ortenzio, F., Helias-Nunige, S., Raimbault, P., Taillandier, V., Testor, P., Wagener, T., Pulido-Villena, E.

* **Correspondence:** Corresponding Author: kahinadjaoudi@mio.osupytheas.fr

1 Supplementary Figures and Tables

1.1 Supplementary Figures



Supplementary Figure 2. Individual vertical profiles of dissolved organic phosphate (DOP) between the surface and 100 m in the North Western Mediterranean Sea (circles) and between the surface and 120 m along the E-W transect crossing Ionian and Tyrrhenian seas (triangles). The green plots represent the fluorescence profiles. The horizontal dashed lines represent the mixed layer depth (MLD). For DOP, the symbol ‘-’ indicates DIP depth profiles where a decrease in DOP

concentrations was observed in the layers between the MLD and the deep chlorophyll maximum (DCM) depth.