

Supplementary Material

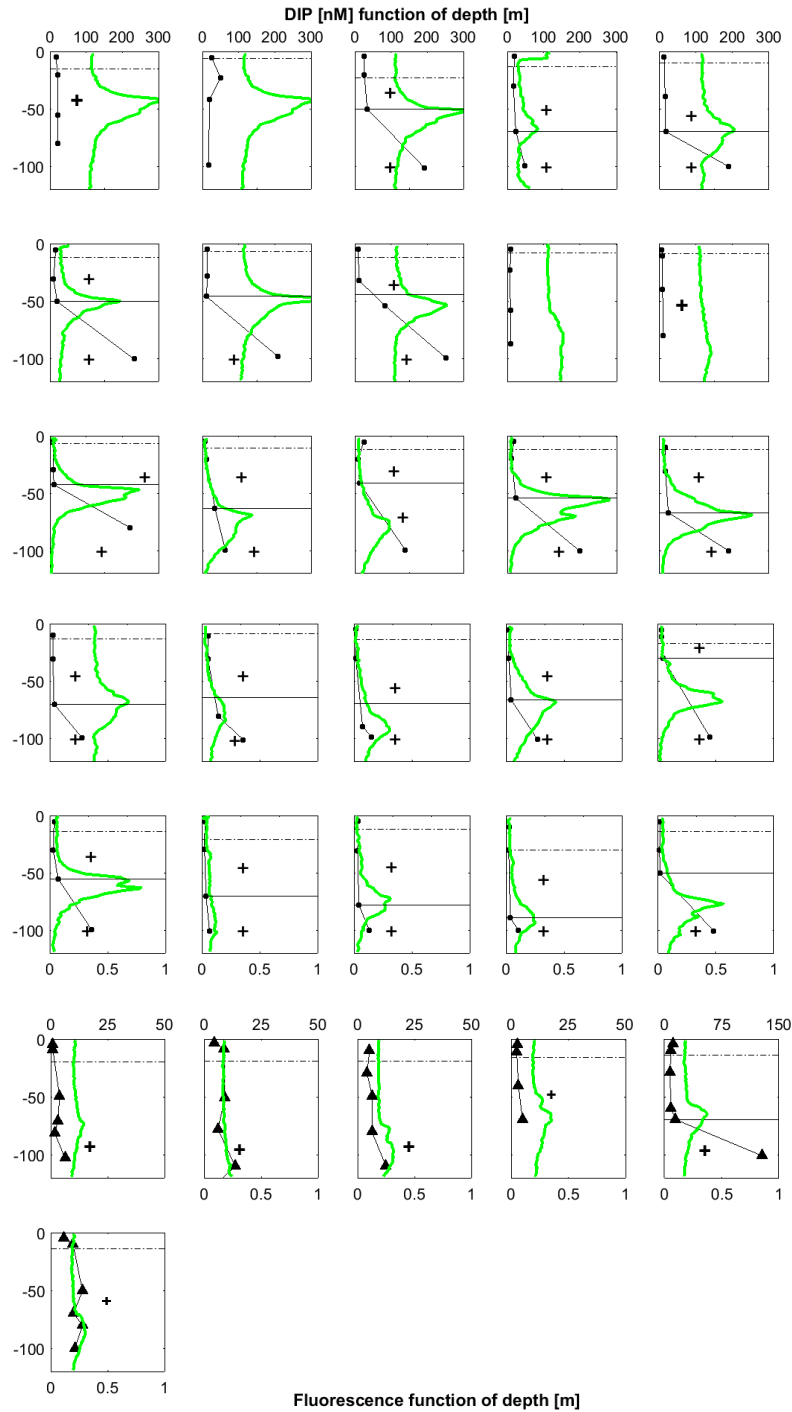
Sensitive determination of the dissolved phosphate pool for an improved resolution of its vertical variability in the surface layer: New views in the P-depleted Mediterranean Sea

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 1. Individual vertical profiles of dissolved inorganic phosphate (DIP) 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 lines represent the mixed layer depth (MLD, dashed lines) and the phosphocline depth (full line), respectively. For DIP, the symbol '+' indicates

DIP depth profiles where an increase in DIP concentrations was observed in the layers between the MLD and the deep chlorophyll maximum (DCM) depth and between the DCM depth and 100 m.