

## **Supplementary Figures:**

### **Towards determining the spatio-temporal variability of upper-ocean ecosystem stoichiometry from satellite remote sensing**

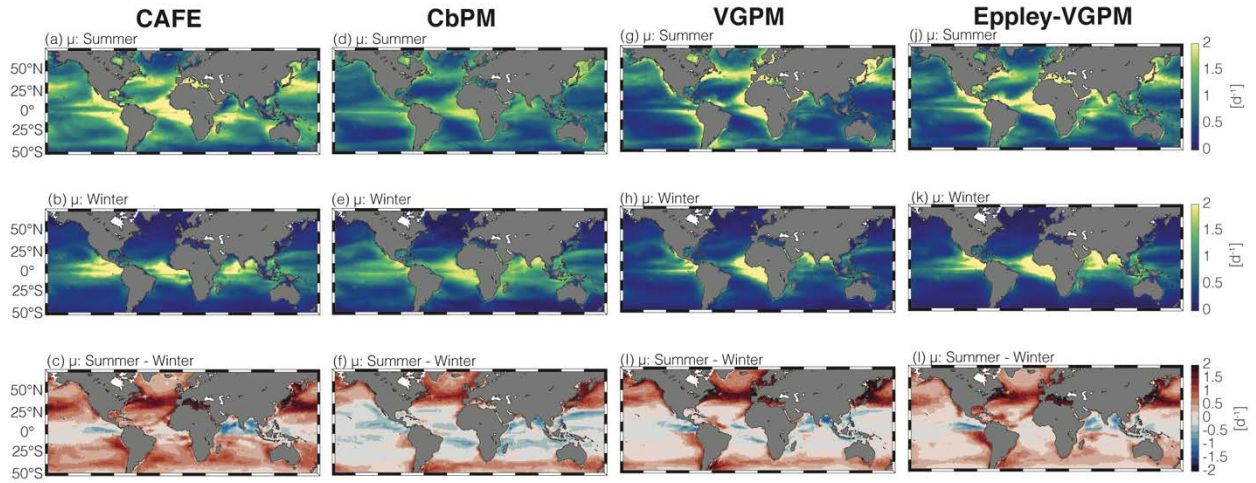
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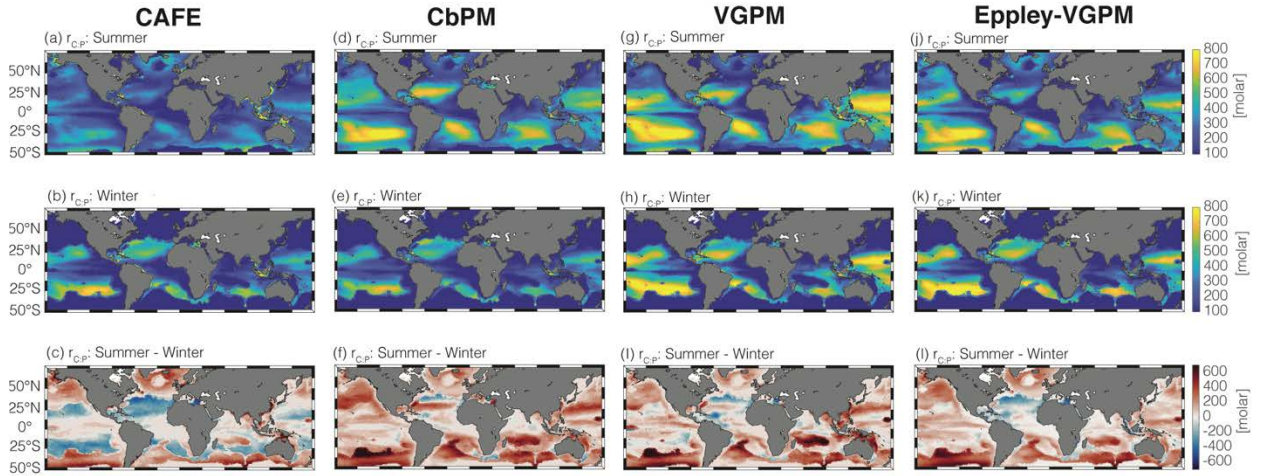
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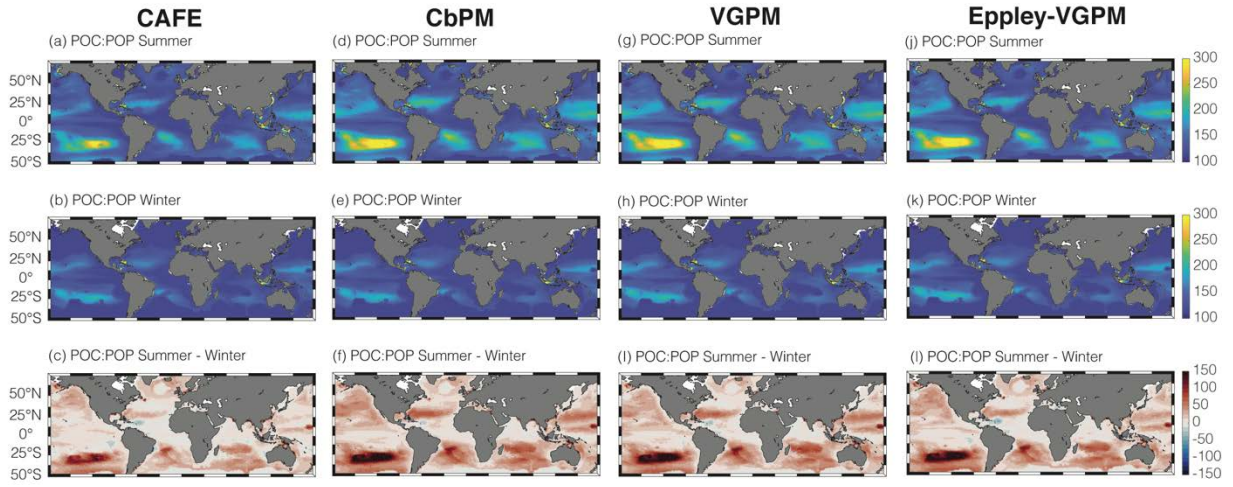
Supplementary Figures 1 – 3



**Supplementary Figure 1:** Global climatology showing average summer and winter growth rate ( $\mu$ ) in the surface mixed layer for the four NPP models (CAFE: (a-c), CbPM: (d-f), VGPM: (g-i), and Eppley-VGPM (j-l)). The last row shows the difference between the summer average  $\mu$  and winter average  $\mu$ .



**Supplementary Figure 2:** The seasonal mean climatology of phytoplankton C:P ( $r_{C:P}$ ) in the surface mixed layer predicted by phytoplankton stoichiometry model for each NPP model. The last row shows the difference between the summer average  $r_{C:P}$  and winter average  $r_{C:P}$ .



**Supplementary Figure 3:** The seasonal mean climatology of bulk POC:POP in the surface mixed layer predicted from  $r_{C:P}$  and  $C_{phyto}:POC$  for each NPP model. The last row shows the difference between the summer average POC and winter average POP.