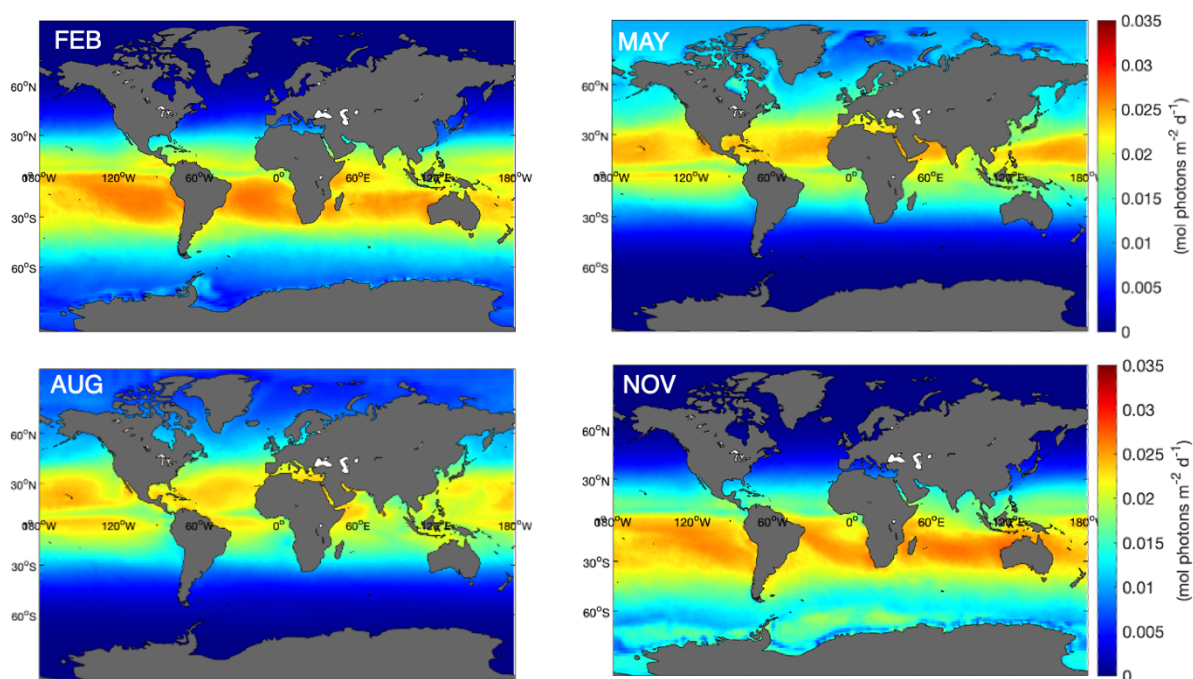
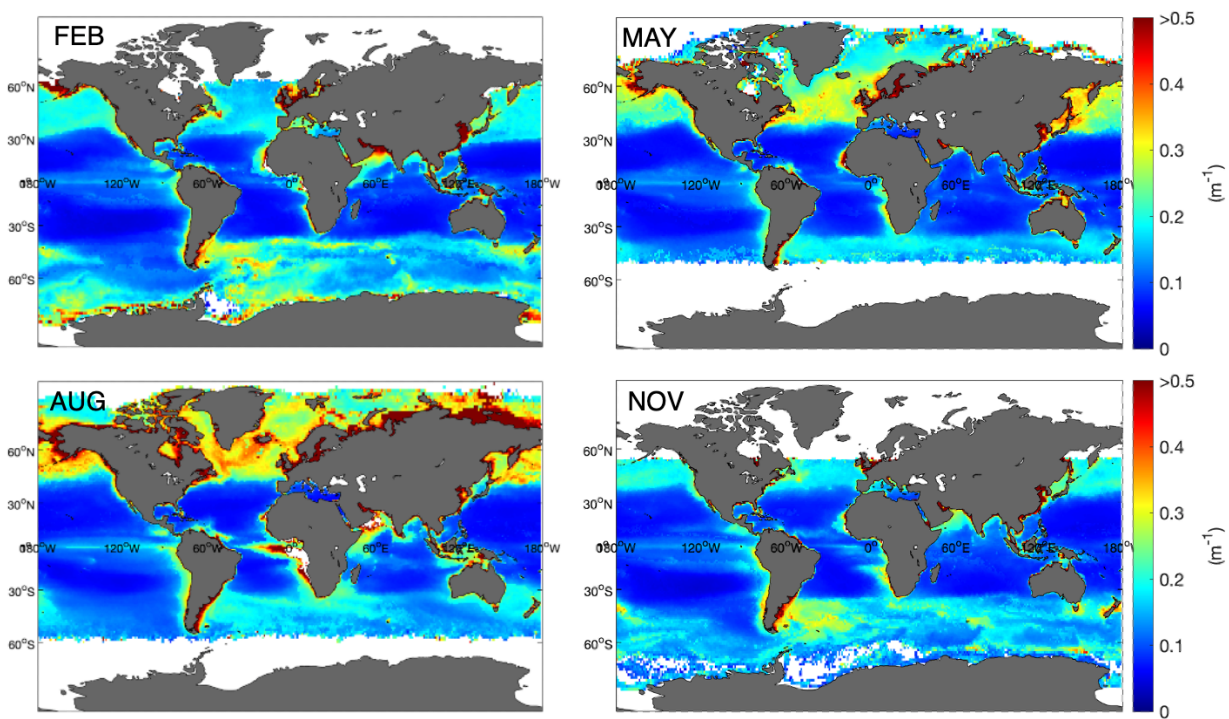


## Supplementary Material

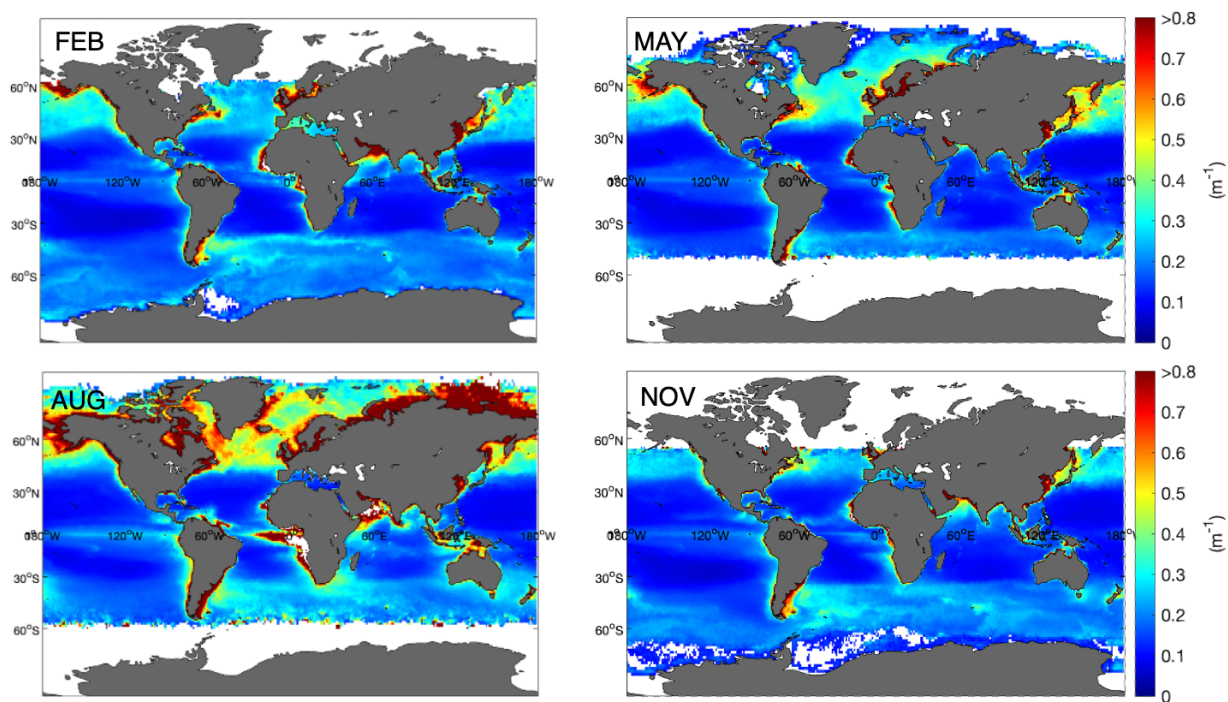
### Supplementary Figures



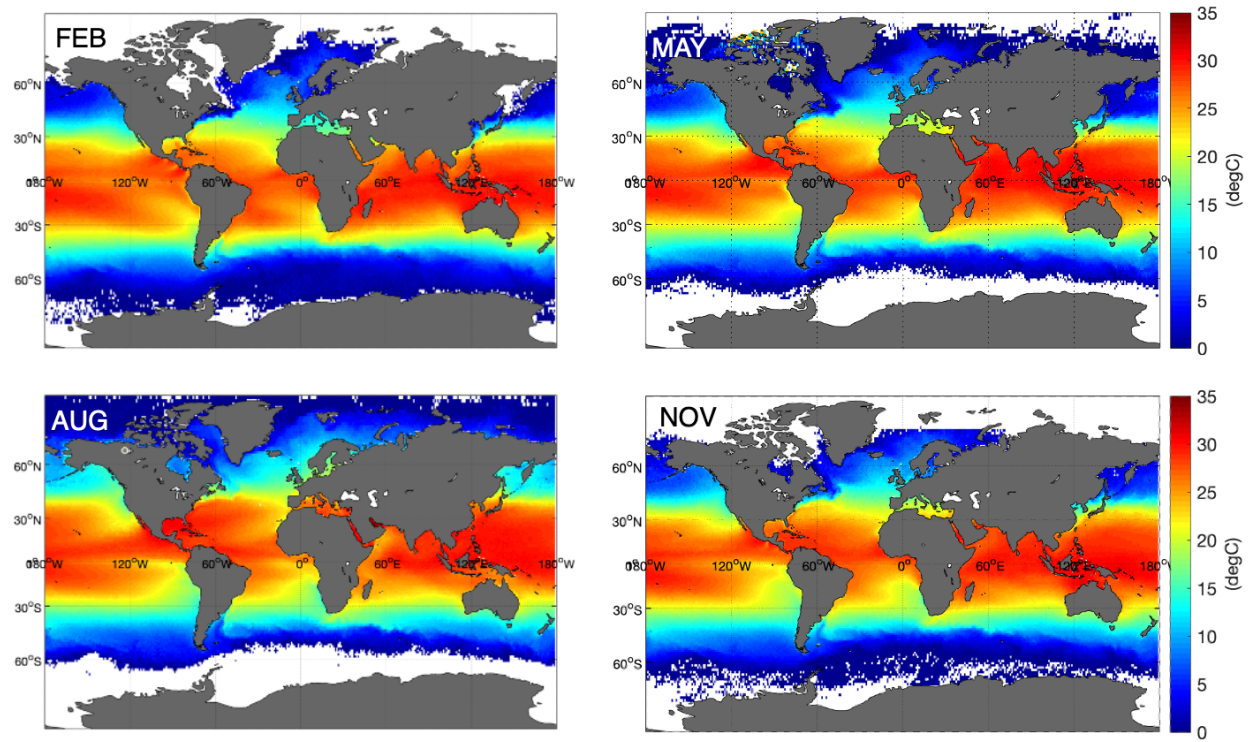
**Supplementary Figure S1.** Global maps of  $E_{CL,0}-(320\text{ nm})$  in February, May, August and November. White color indicates no data.



**Supplementary Figure S2.** Global maps of  $a_g(320 \text{ nm})$  in February, May, August and November. White color indicates no data.



**Supplementary Figure S3.** Global maps of  $K_d(320 \text{ nm})$  in February, May, August and November. White color indicates no data.



**Supplementary Figure S4.** Global maps of SST in February, May, August and November. White color indicates no data.