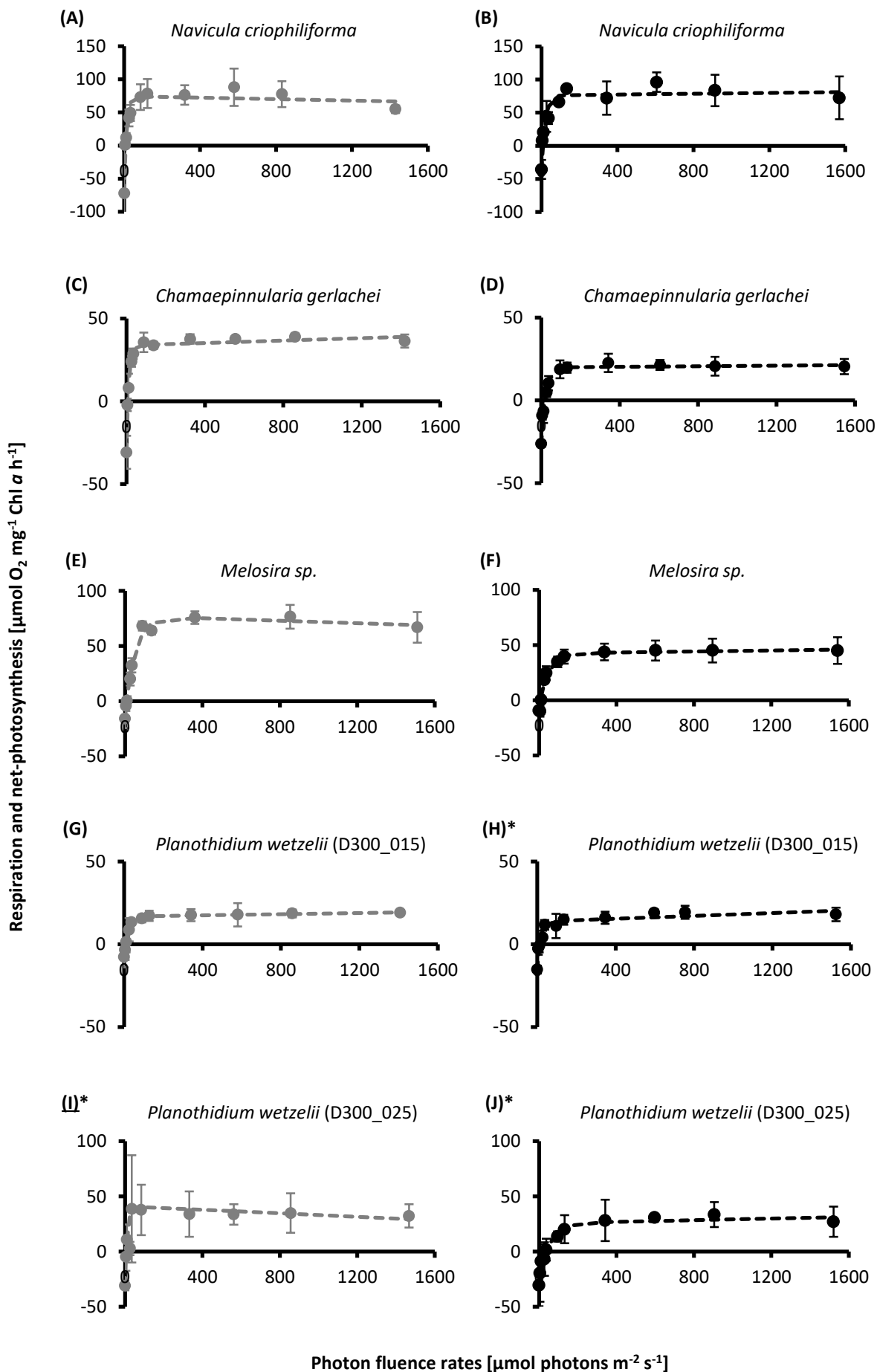




Supplementary Figure 1:

Photosynthesis-irradiance curves (PI-curves) of five benthic diatom strains from Antarctica. Each row shows a different strain, left column gives the control data of each culture (gray, T0), the right column the measurements after 3 months of dark incubation (T3) (black). **(A), (B)** *Navicula criophiliforma*. **(C), (D)** *Chamaepinnularia gerlachei*. **(E), (F)** *Melosira* sp.. **(G), (H)** *Planothidium wetzelii* (D300_015). **(I), (J)** *Planothidium wetzelii* (D300_025). The data points represent mean values $\pm$ SD ($n = 4$, if $n = 3$ marked *) and were fitted using the model of Walsby (1997).