

**Supplementary Figure S1.** Effect of sulphate limitation on *Thalassiosira pseudonana*. **A**. cell number **B**. intracellular DMSP concentration, **C**. volume per cell, **D**. Fv/Fm (The ratio of variable to maximum fluorescence), **E**. APR activity of *Thalassiosira pseudonana* cultures with an initial sulphate concentration of either 5 mM (dashed line) or 25 mM (solid line). Results are shown as means ± standard deviation from 3 independent cultures. Asterisks mark values significantly different (P<0.05, T-test) between the 5 mM and 25 mM cultures.