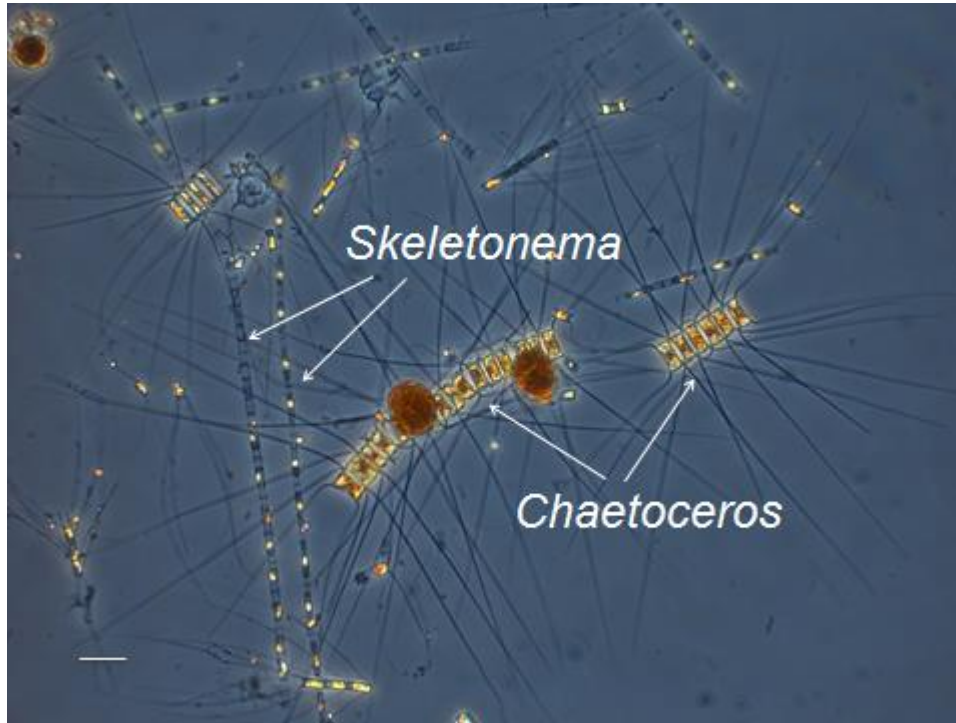


Supplementary information

Turbulence simultaneously stimulates small- and large-scale CO₂ sequestration by chain-forming diatoms in the sea

Bergkvist and Klawonn et al.

Supplementary Fig. 1: *Skeletonema* and *Chaetoceros* cell chains in the phytoplankton community. The scale bar represent 20 μm .



Supplementary Table1.

Cell-specific, light dependent ammonium assimilation rates. In situ ammonium assimilation rates ($\text{fmol N cell}^{-1} \text{ h}^{-1}$) analysed by SIMS in *Skeletonema* and *Chaetoceros* during day and night. The rates represent the average value with s.d.. Number of cells analysed are indicated by n.

Genera	Daytime	Night time
	Cell-specific NH_4^+ assimilation rate ($\text{fmol N cell}^{-1} \text{ h}^{-1}$)	Cell-specific NH_4^+ assimilation rate ($\text{fmol N cell}^{-1} \text{ h}^{-1}$)
<i>Skeletonema</i>	0.87 ± 0.52 (n= 93)	1.61 ± 0.76 (n=42)
<i>Chaetoceros</i>	5.6 ± 3.8 (n= 138)	7.8 ± 3.4 (n= 129)