Table 1. Passive CO₂ fluxes in four diatoms

Diatom	$f_{\rm c}$ (cm ³ /s)	f_{c-BL} (cm ³ /s)	f_{c-M} (cm ³ /s)	P_{c} (cm/s)
P. tricornutum T. weissflogii T. pseudonana T. oceanica	$2.3 \pm 0.4 \times 10^{-8}$ $6.3 \pm 3.2 \times 10^{-8}$ $1.8 \pm 0.6 \times 10^{-8}$ $1.4 \pm 0.2 \times 10^{-8}$	7.7×10^{-8} 1.5×10^{-7} 5.0×10^{-8} 7.5×10^{-8}	$3.3 \pm 0.4 \times 10^{-8}$ $1.1 \pm 0.3 \times 10^{-7}$ $2.8 \pm 0.6 \times 10^{-8}$ $1.7 \pm 0.2 \times 10^{-8}$	$3.1 \pm 0.4 \times 10^{-2}$ $2.4 \pm 0.7 \times 10^{-2}$ $5.6 \pm 1.1 \times 10^{-2}$ $1.5 \pm 0.2 \times 10^{-2}$

The CO₂ influx, described by the cellular transfer coefficient $f_{\rm c}$ (\pm SD), is limited by diffusion through the boundary layer ($f_{\rm c-BL}$) and passage through the membrane ($f_{\rm c-M}$). The cytoplasmic membrane permeability to CO₂ ($P_{\rm c}$ \pm SD) is derived from $f_{\rm c-M}$. At least four replicate measurements were made on each organism. Errors were propagated based on the error in $f_{\rm c}$ measurements.