Table 2 Silicon fluxes at the sediment-water interface in different ecosystems of the world ocean

Ecosystem	Flux (mol Si m^{-2} $year^{-1}$)			
	$F_{S(rain)}$	$F_{B(net\ deposit)}$	$F_{D(benthic)}$	$F_{D(benthic)}/F_{S(rain)}$
Open ocean				
BATS (North Atlantic)	0.018	0.001	0.017	0.95
Northeast Atlantic	0.020	0.001	0.019[a]	0.95
Porcupine Abyssal Plain (North Pacific)	0.065	0.008	0.057	0.88
Indian Ocean (northwest Somali Basin)	0.280	0.018	0.262	0.94
Equatorial Pacific	0.140	0.009	0.131	0.94
Southern Ocean				
Permanently open ocean zone	2.24	0.210	2.03	0.91
Polar frontal zone	0.805	0.075	0.73	0.91
Outer Ross Sea	0.374	0.007	0.367	0.98
Inner Ross Sea	2.13	1.24	0.89	0.42

Abbreviations: BATS, Bermuda Atlantic Time-Series Study; $F_{S(rain)}$, opal rain rates; $F_{B(net\ deposit)}$, opal net accumulation rates; $F_{D(benthic)}$, silicon recycled at the sediment-water interface. Table modeled after Ragueneau et al. (2009).

[a]Calculated by the difference between the measured rain rate and opal accumulation rate (Pondaven et al. 2000).

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