

Table 5 Silicon budget in the world ocean

Component	Flux (Tmol Si year ⁻¹)
Inputs	
Rivers, dissolved silicon [$F_{R(\text{grossDSi})}$]	+6.2 ± 1.8
Rivers, biogenic silica [$F_{R(\text{bSiO}_2)}$]	+1.1 ± 0.2
Reverse weathering and trapping (estuaries/plumes) (F_{RW})	-1.5 ± 0.5
Groundwater (F_{GW})	+0.6 ± 0.6
Atmosphere (aeolian) (F_A)	+0.5 ± 0.5
Hydrothermal (high and low temperature) (F_H)	+0.6 ± 0.4
Seafloor weathering (F_W)	+1.9 ± 0.7
<i>Total net inputs</i>	<i>+9.4 ± 4.7</i>
Outputs (F_B)	
Burial rate (diatoms)	6.3 ± 3.6
Sponges (continental shelves)	3.6 ± 3.7
<i>Total net outputs</i>	<i>9.9 ± 7.3</i>
<i>Total production [$F_{P(\text{gross})}$]</i>	<i>240 ± 40</i>