

*In situ* measurements of micronutrient dynamics in open seawater show that complex dissociation rates may limit diatom growth.

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Table S2: Composition of parts of the SeaExplorer. Al, Si and S (in %), other elements (in  $\mu\text{g g}^{-1}$ ) in (1) Anodized plate and (2) Al plate. Trace metals in polyurethane (PU) material and in leaching solutions. Concentrations in  $\mu\text{g g}^{-1}$ .

	Al	Si	S	Cd	Mn	Fe	Co	Ni	Cu	Zn
(1)	75	4.50	18.6	0.11	312	2270	1.87	33	1620	359
(2)	99	0.01	0.02	0.08	291	1940	1.43	24	1460	196
				Cd	Mn	Fe	Co	Ni	Cu	
PU		0.0039	4.0	114	0.026	0.388	0.391			
HCl 0.1N		0.00092	0.014	0.755	0.001	0.028	0.081			
HAc 1M		$9.7 \times 10^{-5}$	0.011	0.292	0.000	0.013	0.027			
HNO <sub>3</sub> 1M		0.00058	0.020	0.699	0.002	0.039	0.100			