

Station name	$T$ (°C)	[NO <sub>3</sub> + NO <sub>2</sub> ] (μM)	[Si(OH) <sub>4</sub> ] (μM)	[Chl <i>a</i> ] (μg L <sup>-1</sup> )	20 m ∫ bSiO <sub>2</sub> (mmol Si m <sup>-2</sup> )	20 m ∫ ρ (mmol Si m <sup>-2</sup> day <sup>-1</sup> )	20 m $V_{AVE}$ (day <sup>-1</sup> )	40 m ∫ Diatom abundance (10 <sup>9</sup> cells m <sup>-2</sup> )	40 m bSiO <sub>2</sub> export (mmol Si m <sup>-2</sup> day <sup>-1</sup> )	40 m diatom export (10 <sup>6</sup> cells m <sup>-2</sup> day <sup>-1</sup> )
van Mijenfjorden <sup>a</sup>	-0.43	8.1	3.8	1.84 ± 0.19	10.8	–	–	7.67	9.03	769
Bredjupet <sup>a</sup>	4.72	9.4	4.5	0.72 ± 0.03	1.9	0.27	0.13	–	–	–
Bellsund Hula	0.69	< 0.1	0.5	2.66 ± 0.05	15.3	0.49	0.06	–	–	–
Hornsund	-0.28	1.6	1.1	2.50 ± 0.20	–	–	–	8.97	–	1180
Hornsunddjupet <sup>a</sup>	-0.20	< 0.1	0.4	2.43 ± 0.17	42.2	1.46	0.03	–	–	–
Edgeøya <sup>c</sup>	-0.70	0	0.7	1.99 ± 0.03	–	–	–	–	–	–
Erik Eriksenstretet <sup>a</sup>	-1.58	0.4	0.4	4.77 ± 0.31	34.9	1.03	0.04	252	4.00	436
Polar Front station <sup>a,b</sup>	2.19	< 0.1	1.1	3.00 ± 0.03	–	–	–	527	–	–
Atlantic	4.10	3.3	1.4	6.66 ± 0.33	–	–	–	–	9.20	2380