



Supplement of

Trace metal distributions in the transition zone from the Greenland Ice Sheet to the surface water in Kangerlussuaq fjord (67° N)

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Table S1. Instrument uncertainties, measured as the Reference Standard, RSD, (%) from all trace metal samples ($\mu\text{g L}^{-1}$); iron (Fe), manganese (Mn), cobalt (Co), copper (Cu), zinc (Zn), nickel (Ni), molybdenum (Mo), arsenic (As), vanadium (V), and uranium (U). RSD is not reported for values below quantification limit. Quantification limit for each element is given in the second row for each element.

Station	56 Fe [He]		55 Mn [He]		59 Co [He]		66 Zn [He]		60 Ni [He]		95 Mo [He]		75 As [He]		51 V [He]		238 U [No Gas]	
	5 $\mu\text{g/l}$	%	0.5 $\mu\text{g/l}$	%	0.1 $\mu\text{g/l}$	%	1 $\mu\text{g/l}$	%	0.1 $\mu\text{g/l}$	%	0.1 $\mu\text{g/l}$	%	0.5 $\mu\text{g/l}$	%	0.5 $\mu\text{g/l}$	%	0.1 $\mu\text{g/l}$	%
	[$\mu\text{g/l}$]	RSD	[$\mu\text{g/l}$]	RSD	[$\mu\text{g/l}$]	RSD	[$\mu\text{g/l}$]	RSD	[$\mu\text{g/l}$]	RSD	[$\mu\text{g/l}$]	RSD	[$\mu\text{g/l}$]	RSD	[$\mu\text{g/l}$]	RSD	[$\mu\text{g/l}$]	RSD
6	5.11	8.93	7.75	6.26	0.10	5.21	2.20	17.05	0.84	5.56	1.00	4.00	<QL		<QL		0.12	3.98
6	<QL		2.36	4.41	<QL		1.16	11.88	0.66	8.72	4.67	6.87	0.68	14.25	<QL		1.01	1.79
7	<QL		3.89	6.95	<QL		9.66	6.97	0.73	14.35	3.26	2.46	0.53	27.35	<QL		0.68	1.77
7	<QL		3.62	2.88	<QL		8.92	8.52	0.82	3.49	3.34	5.45	0.51	16.96	<QL		0.62	1.55
8	17.54	1.91	5.97	1.42	0.11	4.88	93.97	1.61	0.76	14.56	1.51	6.96	<QL		0.51	7.52	0.25	2.70
9	<QL		4.96	1.65	<QL		18.58	4.60	0.69	18.39	2.01	6.11	<QL		<QL		0.46	1.96
10	<QL		4.28	2.74	<QL		14.78	3.76	0.80	14.94	2.91	4.86	<QL		<QL		0.64	1.54
11	<QL		3.89	16.13	<QL		7.29	9.59	0.71	6.39	3.26	7.06	<QL		<QL		0.53	3.48
13	16.08	3.39	8.06	1.56	0.12	7.19	52.95	5.39	0.62	3.34	0.57	4.88	<QL		0.65	28.62	<QL	
14	40.93	9.66	9.87	10.18	0.16	13.51	35.17	13.65	0.78	14.48	0.37	5.11	<QL		0.60	6.48	<QL	
15	75.20	3.47	12.47	5.59	0.16	9.69	18.68	4.34	0.84	10.20	0.22	19.68	<QL		0.68	1.52	<QL	
16	94.77	7.76	12.88	9.04	0.22	6.40	31.25	11.18	0.78	6.84	0.22	15.25	<QL		0.69	2.76	<QL	
17	75.24	4.85	10.26	8.31	0.18	9.21	60.31	3.01	0.93	4.84	0.34	12.88	<QL		0.76	17.60	<QL	
18	13.67	4.65	6.63	4.88	<QL		121.78	7.04	0.64	14.32	0.65	14.33	<QL		0.79	8.31	<QL	
19	<QL		4.59	12.94	<QL		12.46	4.02	0.87	4.20	1.76	4.18	<QL		<QL		0.38	5.41
19	<QL		3.67	2.59	<QL		10.65	9.96	0.95	9.60	2.20	0.61	<QL		<QL		0.47	3.03
20	<QL		4.48	10.45	<QL		49.93	7.82	0.88	10.75	2.27	1.87	<QL		<QL		0.47	1.39
20	<QL		3.64	2.82	<QL		18.66	0.70	0.95	7.13	2.48	4.83	<QL		<QL		0.52	2.37
21	<QL		7.63	9.11	<QL		5.43	8.41	0.61	7.53	0.70	8.28	<QL		0.59	4.51	<QL	
22	8.97	7.09	8.43	10.73	0.10	10.99	26.31	12.42	0.79	6.18	0.37	10.08	<QL		0.58	9.67	<QL	
23	<QL		7.72	2.54	0.11	8.02	3.73	9.54	0.73	12.07	0.65	16.09	<QL		0.64	32.60	<QL	
24	<QL		7.84	0.06	<QL		2.47	23.82	0.62	12.83	0.58	2.89	<QL		0.81	23.29	<QL	
25	<QL		7.60	6.21	<QL		8.90	6.29	0.62	12.84	0.55	9.85	<QL		0.66	15.47	<QL	
26	<QL		6.80	5.66	<QL		21.95	3.17	0.71	16.64	0.81	2.39	<QL		0.67	5.97	0.14	1.52
27	<QL		5.53	0.99	<QL		5.65	7.77	0.90	0.72	1.33	2.64	<QL		<QL		0.24	3.39
28	16.02	10.34	9.20	8.64	<QL		27.90	7.17	0.65	6.01	<QL		<QL		<QL		<QL	
30	12.50	4.92	2.92	2.34	<QL		3.96	7.50	0.40	1.87	<QL		<QL		<QL		<QL	
31	22.20	5.44	10.21	3.76	0.12	13.49	37.38	4.41	0.60	9.64	<QL		<QL		0.51	9.96	<QL	
32	25.04	19.91	3.05	23.24	<QL		34.93	18.76	1.54	22.12	<QL		<QL		<QL		<QL	
33	37.16	4.53	9.33	2.52	<QL		27.43	5.62	0.46	13.68	0.27	20.85	<QL		1.00	2.97	<QL	
34	81.32	3.52	9.04	1.74	0.14	15.09	48.15	3.57	0.69	17.39	0.19	22.79	<QL		0.77	0.80	<QL	
35	128.94	9.22	10.26	11.97	0.18	4.11	18.52	12.82	0.87	7.53	0.20	12.92	<QL		0.78	6.41	<QL	