

Sample name	Location	Latitude	Longitude	$\delta^{25}\text{Mg}$	2sd	$\delta^{26}\text{Mg}$	2sd	$\Delta^{25}\text{Mg}$	Mg $\mu\text{mol/l}$	Mg/Ca molar	pH	Temperature $^{\circ}\text{C}$	Alkalinity $\mu\text{eq/ml}$
2012													
<i>Vatnajökull</i>													
E5	Skaftafellsá river	N 64°00.459'	W 16°56.006'	-0.13	0.05	-0.25	0.07	0.00	8.6	0.306	9.31	1.7	14.0
E8	snout of Skafta Glacier	N 64°01.612'	W 16°56.134'	-0.07	0.04	-0.10	0.09	-0.02	24.1	0.825	9.52	1.0	15.5
E10	Svinafellsá river	N 63°59.106'	W 16°52.465'	-0.09	0.01	-0.18	0.01	0.01	19.1	0.341	9.23	0.6	14.1
E11	Nupsuoyñ (Núpsvötn)	N 63°57.221'	W 17°28.104'	-0.13	0.03	-0.28	0.04	0.02	29.6	0.834	8.21	2.5	36.2
E11 rpt				-0.14	0.05	-0.25	0.05	-0.01			8.21		
E12	Kolgrima river	N 64°14.788'	W 15°40.474'	-0.17	0.03	-0.32	0.02	0.00	11.1	0.236	8.5	1.6	23.5
E13	Kvia river	N 63°56.297'	W 16°23.035'	-0.26	0.03	-0.51	0.04	0.01	15.0	0.531	7.21	0.1	27.2
<i>Langjökull</i>													
A8	Hvítá river at Kláfoss	N 64°41.612'	W 21°24.867'	-0.25	0.02	-0.51	0.06	0.02	31.5	1.36	7.03	8.8	20.9
A14	Upper Hvítá river	N 64°39.314'	W 20°42.066'	-0.16	0.01	-0.32	0.02	0.00	23.8	0.933	6.97	8.4	10.5
<i>Groundwater</i>													
G1	Hraunfossar groundwater			-0.12	0.03	-0.24	0.02	0.01	28.8	1.04	9.06	3.9	32.4
Laug1	Spring N of Laugarvatn	N 64°15.097'	W 20°39.569'	-0.20	0.04	-0.34	0.08	-0.02	17.9	0.806	9.6	3.9	47.8
PvS 2008													
<i>Langjökull</i>													
A8	Hvítá river at Kláfoss	N 64°41.612'	W 21°24.867'	0.09	0.07	0.18	0.11	0.00	35.9	0.483	8.56	5.6	22.8
A10	Tributary to Hvítá - water from Ok	N 64°40.813'	W 21°02.309'	-0.20	0.06	-0.39	0.08	0.00	60.5	0.707	7.83	11.6	26.1
A12	Hvítá river	N 64°42.359'	W 21°02.353'	0.32	0.08	0.64	0.07	-0.01	34.0	0.487	9.3	6.4	28.6
A12 - rpt				0.28	0.02	0.55	0.02	-0.01					
A13	Norðlingaflljót river	N 64°48.101'	W 20°41.306'	0.05	0.11	0.10	0.13	0.00	66.8	0.729	8.44	12.9	25.9
A16	Top of Grimsá river	N 64°28.733'	W 20°56.284'	0.07	0.10	0.15	0.12	-0.01	33.0	0.485	9.54	6.6	15.5
G2	Hvítá river below Hraunfossar	N 64°42.234'	W 20°59.571'	0.12	0.06	0.24	0.07	-0.01	40.3	0.513	9.13	8.5	20.9
G2 - rpt				0.10	0.02	0.20	0.03	0.00					
<i>Vatnajökull</i>													
E1	Skeiðará river	N 63°58.585'	W 16°59.929'	0.10	0.03	0.19	0.05	0.00	27.2	0.258	9.11	1.9	19.8
E1 bedload				-0.11		-0.22		0.00					
E3	Fjallsártón	N 64°00.828'	W 16°22.567'	-0.14	0.04	-0.28	0.06	0.01	16.6	0.104	9.63	3.1	20.3
E3 - rpt				-0.11	0.01	-0.22	0.02	0.00					
E4	Virkisá river	N 63°57.280'	W 16°51.100'	-0.03	0.02	-0.06	0.04	0.00	15.2	0.545	7.72	1.4	7.9
E5	Skaftafellsá river	N 64°00.459'	W 16°56.006'	0.05	0.06	0.09	0.07	0.00	13.2	0.143	9.69	1.9	15.7
E5 bedload				-0.14		-0.28		-0.01					
E6	Sandgígjukvísl river	N 63°56.707'	W 17°21.020'	0.11	0.06	0.22	0.09	0.00	19.9	0.327	7.98	5.5	13.1
<i>Groundwater</i>													
G1	Hraunfossar groundwater			0.12	0.05	0.23	0.09	0.00	27.1	0.434	9.89	4.0	15.2

Table 1. Sample location, pH, alkalinity, temperature and Mg isotope ratios and concentrations. Samples from Pogge von Strandmann et al, 2008 are repeated here (PvS 2008) for completeness's sake. Eyjafjallajökull elemental concentrations are from Olsson et al, 2014. Two bedload samples are also reported.

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