

CAMPAIGN	Site	Date	Time	pH	EC ($\mu\text{S cm}^{-1}$ at 25° C)	Water temperature (° C)	$\delta^{18}\text{O}$ (‰) vs. VSMOW	$\delta^2\text{H}$ (‰) vs. VSMOW	Na ⁺ (mg L ⁻¹)	K ⁺ (mg L ⁻¹)	Mg ²⁺ (mg L ⁻¹)	Ca ²⁺ (mg L ⁻¹)	F ⁻ (mg L ⁻¹)	Cl ⁻ (mg L ⁻¹)	SO ₄ ²⁻ (mg L ⁻¹)	TDS (mg L ⁻¹)
JUNE 2022	S-RG2	2022/06/12	16:54	8.34	184	0.05	-24.3	-187.0	0.13	0.23	4.81	17.84	<0.005	0.02	8.94	99.75
	S-RG14	2022/06/15	15:30	8.07	167	0.14	-23.5	-183.4	0.26	<0.005	0.46	17.33	<0.005	0.02	2.01	73.26
	S-IDC1	2022/06/16	15:56	8.55	131	0.54	-23.5	-182.6	0.14	<0.005	0.43	15.31	<0.005	0.03	2.60	64.30
	S-IDC3	2022/06/16	15:37	8.69	148	0.11	-23.8	-183.6	0.03	<0.005	0.44	13.18	<0.005	0.01	2.07	55.50
	S-IDC4	2022/06/16	17:04	8.74	178	0.20	-23.7	-182.6	0.11	<0.005	0.07	16.34	<0.005	0.01	0.62	66.74
	S-IDC5	2022/06/16	17:40	8.42	133	0.05	-23.9	-184.9	0.03	<0.005	0.33	15.85	<0.005	0.01	4.35	64.99
	S-IDC1	2022/06/18	17:50	8.61	152	0.11	-23.5	-182.9	0.03	<0.005	0.48	13.67	<0.005	<0.005	3.40	57.35
	S-IDC2	2022/06/18	17:56	8.61	219	0.43	-23.0	-180.1	0.05	0.05	0.48	21.09	<0.005	0.05	3.20	87.59
	S-RG10	2022/06/19	12:43	8.85	143	0.38	-22.9	-180.4	0.04	0.03	0.01	14.33	<0.005	0.02	0.95	57.92
	S-RG11	2022/06/19	12:35	9.76	138	0.28	-23.8	-186.1	0.02	<0.005	0.22	6.65	<0.005	0.02	0.54	28.12
	S-RG14	2022/06/19	14:25	7.92	182	0.48	-23.6	-184.8	0.03	<0.005	0.41	16.06	<0.005	0.03	0.83	67.30
	S-RG15	2022/06/19	15:17	8.57	215	2.24	-23.8	-186.2	0.03	0.07	0.31	23.29	<0.005	0.01	2.23	95.74
	S-RG16	2022/06/19	15:42	8.69	207	0.38	-24.1	-187.3	0.03	0.06	0.44	19.57	<0.005	0.02	6.40	80.32
	S-RG2	2022/06/19	15:08	8.38	204	0.03	-24.1	-186.5	0.03	<0.005	3.40	16.18	<0.005	0.01	5.58	84.50
	S-RG3	2022/06/19	14:48	8.52	194	1.43	-23.7	-185.4	0.04	<0.005	3.58	15.78	0.01	0.01	5.85	83.91
	S-RG4	2022/06/19	13:52	8.05	348	2.70	-23.4	-181.5	0.17	<0.005	7.40	30.70	<0.005	0.02	10.98	166.37
	S-RG5	2022/06/19	13:45	8.29	215	3.19	-24.0	-185.6	0.21	0.21	2.89	18.52	<0.005	0.07	14.93	89.53
	S-RG6	2022/06/19	13:30	8.41	178	0.15	-23.1	-180.3	0.03	<0.005	0.37	18.18	<0.005	0.01	0.90	75.62
	S-RG7	2022/06/19	13:18	8.42	206	0.67	-22.7	-178.5	0.04	<0.005	1.05	21.26	<0.005	0.01	1.56	92.01
	S-RG8	2022/06/19	12:50	8.30	577	0.42	-23.0	-178.6	0.54	0.19	13.36	49.54	0.02	0.04	53.94	268.63
AUGUST 2022	S-RUP	2022/08/16	12:00	8.26	431	5.07	-21.8	-174.5	0.40	0.27	10.48	36.10	0.03	0.05	63.86	193.90
	S-RUP	2022/08/16	16:16	8.41	189	5.15	-22.2	-177.7	0.16	0.11	3.61	17.67	0.02	0.03	20.86	88.36
	S-RG13	2022/08/16	13:47	8.49	225	1.11	-20.6	-165.3	0.14	0.14	2.90	25.27	0.01	0.05	4.12	119.38
	S-RG2	2022/08/16	11:15	8.20	593	0.24	-20.7	-165.0	0.37	0.44	13.49	41.59	0.02	0.08	71.11	232.60
	S-RG5	2022/08/16	11:30	8.28	359	0.94	-20.5	-165.0	0.22	0.09	5.80	31.78	<0.005	0.01	12.54	161.10
	S-RG5	2022/08/16	16:04	8.59	367	1.17	-20.6	-165.5	0.24	0.18	5.74	31.49	<0.005	0.04	11.77	160.06
	S-RG6	2022/08/16	12:40	8.25	318	1.63	-20.4	-164.2	0.19	0.40	4.92	29.81	0.01	0.86	6.62	149.50
	S-RG7	2022/08/16	13:05	8.03	657	2.08	-21.7	-172.9	0.50	0.14	15.25	52.45	0.02	0.04	72.47	286.49
	S-RG8	2022/08/16	13:15	7.98	711	1.15	-21.8	-173.3	0.56	0.13	16.29	53.61	2.80	1.91	80.19	288.05
	S-RG9A	2022/08/16	12:13	8.01	656	1.33	-21.8	-173.9	0.54	0.13	15.20	51.75	0.03	0.02	69.24	284.34
	S-RUP	2022/08/17	13:12	8.09	249	3.47	-21.9	-174.8	0.25	0.04	5.47	21.27	0.02	0.03	31.96	111.28
	S-RG1	2022/08/17	11:58	7.59	748	0.43	-20.7	-165.4	0.31	0.12	25.57	43.73	0.04	0.05	128.40	297.43
	S-RG2	2022/08/17	12:14	8.04	571	0.74	-20.6	-165.2	0.36	0.31	13.74	42.24	0.02	0.07	73.28	235.77
	S-RG5	2022/08/17	12:44	8.26	343	1.04	-20.6	-165.5	0.26	0.39	5.71	31.80	<0.005	0.03	11.80	161.74
	S-RG6	2022/08/17	13:05	8.26	312	1.58	-20.4	-164.5	0.19	0.05	4.97	29.92	<0.005	0.02	7.02	149.86
	S-RG7	2022/08/17	13:58	8.05	620	2.15	-21.6	-172.2	0.49	0.09	14.85	51.71	0.02	0.02	68.64	281.97
	S-RG8	2022/08/17	14:13	7.97	622	4.01	-21.8	-173.6	0.55	0.11	16.48	54.39	0.03	0.03	78.58	300.18

	S-RG9A	2022/08/17	13:29	7.94	640	1.39	-21.7	-173.7	0.60	0.10	15.46	52.25	0.03	0.05	71.11	287.55
	S-RUP	2022/08/18	12:35	8.30	478	4.09	-21.8	-174.2	0.45	0.10	11.87	40.41	0.04	0.04	66.56	218.70
	S-GL1	2022/08/18	18:36	7.75	46	0.07	-21.7	-173.8	0.16	0.18	0.21	4.44	0.01	0.03	1.97	19.70
	S-GL2	2022/08/18	18:06	9.00	44	0.06	-22.0	-177.0	0.04	0.09	0.14	3.87	0.01	0.03	4.55	15.59
	S-GL3	2022/08/18	19:03	7.57	114	0.06	-21.6	-172.9	0.12	0.12	0.38	9.68	<0.005	0.02	15.78	37.90
	S-IDC1	2022/08/18	20:29	8.29	431	0.58	-21.5	-171.7	0.68	0.37	5.28	37.09	0.01	0.03	42.95	173.58
	S-IDC5	2022/08/18	20:55	8.32	500	0.68	-20.9	-166.4	0.28	0.16	6.91	44.56	0.02	0.04	52.94	208.89
	S-RG1	2022/08/18	13:52	8.31	772	0.39	-20.7	-165.0	0.32	0.10	26.84	44.06	0.61	0.05	131.69	304.24
	S-RG12	2022/08/18	11:56	8.38	264	0.26	-20.9	-167.3	0.14	0.04	2.45	25.63	0.00	0.02	4.28	117.87
	S-RG13	2022/08/18	11:40	8.33	270	1.21	-20.6	-165.1	0.17	0.06	3.04	26.00	<0.005	0.03	4.62	122.98
	S-RG5	2022/08/18	12:47	8.25	346	1.11	-20.6	-165.7	0.25	0.12	5.64	31.44	0.01	0.06	11.85	159.08
	S-RG6	2022/08/18	12:27	8.29	no data	1.63	-20.4	-164.5	0.20	0.00	4.93	29.82	<0.005	0.01	6.89	149.16
	S-RG7	2022/08/18	12:14	8.03	651	1.81	-21.6	-172.4	0.51	0.13	15.22	52.39	0.03	0.04	70.05	286.71
	S-RG8	2022/08/18	11:11	7.87	700	1.01	-21.7	-173.1	0.57	0.11	16.50	54.63	0.05	0.73	78.27	300.88
	S-RUP	2022/08/19	13:01	no data	382	6.26	-22.0	-175.7	0.40	0.10	10.12	33.42	0.03	0.03	61.53	181.11
	S-RDOWN	2022/08/19	13:05	8.32	503	4.57	-21.9	-174.4	0.58	0.21	12.79	43.79	0.03	0.06	67.24	238.49
	S-RG12	2022/08/19	12:10	no data	265	0.76	-20.9	-167.2	0.18	0.12	2.60	26.10	0.01	0.03	4.51	120.93
	S-RG14	2022/08/19	12:30	7.70	277	0.49	-20.9	-167.7	0.26	0.10	2.75	27.54	<0.005	0.02	8.74	126.78
	S-RG5	2022/08/19	13:46	no data	324	2.87	-20.6	-165.5	0.20	0.10	5.54	31.06	<0.005	0.01	11.04	156.98
	S-RG6	2022/08/19	13:24	no data	319	1.54	-20.5	-164.8	0.18	0.08	5.06	29.94	<0.005	0.01	7.15	150.49
	S-RG7	2022/08/19	13:12	no data	621	3.20	-21.6	-172.5	0.52	0.08	15.62	52.46	0.03	0.03	70.87	289.10
	S-RG8	2022/08/19	12:34	no data	697	1.36	-21.8	-173.7	0.62	0.16	17.16	55.34	0.04	0.04	78.15	308.58
JUNE 2023	S-R1	2023/06/15	12:50	7.79	694	1.65	-22.6	-176.5	1.82	0.94	15.10	53.60	0.01	0.03	120.44	284.17
	S-R2	2023/06/15	13:07	7.8	698	1.51	-22.6	-176.7	3.02	0.72	15.14	50.98	0.54	0.10	121.01	276.25
	S-R3	2023/06/15	13:25	7.83	686	1.45	-22.5	-175.5	1.30	0.80	14.34	51.92	0.69	1.98	118.15	268.25
	S-R4A	2023/06/15	13:50	7.83	678	1.9	-22.9	-177.4	1.18	0.78	13.70	49.80	0.08	0.05	119.07	257.82
	S-R4B	2023/06/15	14:35	7.81	697	7.81	-22.5	176.2	1.06	0.74	13.38	48.58	0.22	0.09	121.73	249.37
	S-R5A	2023/06/15	14:40	8.16	569	5.45	-22.9	177.6	0.54	0.68	10.96	41.24	0.01	3.76	88.32	209.91
	S-R5B	2023/06/15	14:10	8.24	510	8.65	-22.4	-175.5	0.42	0.78	11.00	40.78	0.15	0.13	80.25	212.58
	S-R6	2023/06/15	16:40	8.06	455	5.26	-22.8	-178.4	0.50	0.76	8.06	36.28	0.01	3.13	83.53	174.20
	S-R7	2023/06/15	16:50	8.16	567	6	-22.2	-175.2	0.38	0.64	13.02	43.14	0.13	0.01	79.20	234.20
	S-R8	2023/06/15	17:00	8.23	508	6.93	-22.4	-175.1	0.22	0.62	10.36	39.64	0.09	0.08	56.26	209.65
	S-RG8	2023/06/15	14:55	7.76	723	0.88	-22.9	-177.9	1.36	0.74	15.76	56.42	0.17	0.06	128.53	294.79
	S-RG9A	2023/06/15	14:55	7.93	646	1.52	-22.9	-178.2	1.66	0.70	13.22	50.00	0.27	0.13	114.47	258.05
	S-R1	2023/06/16	13:00	8.1	697	1.46	-22.5	-176.7	1.20	0.52	13.50	50.52	0.15	0.07	123.18	257.66
	S-R2	2023/06/16	13:10	7.91	705	1.47	-22.6	-177.5	1.26	0.64	14.28	53.24	0.12	0.15	123.44	273.83
	S-R3	2023/06/16	13:40	7.86	695	1.51	-22.8	-178.0	1.22	0.54	14.50	54.44	0.12	0.12	121.43	280.15
	S-R4B	2023/06/16	14:20	7.8	705	1.5	-22.7	-177.8	1.06	0.52	14.26	52.56	0.15	0.04	121.96	270.33
	S-R5A	2023/06/16	15:10	8.09	595	4	-22.3	-175.9	1.70	0.78	13.20	48.88	0.14	1.60	110.06	254.18

	S-R5B	2023/06/16	15:25	8.28	537	8.45	-22.5	-177.0	0.38	0.56	11.20	41.70	0.04	0.05	78.93	217.47
	S-R5C	2023/06/16	14:45	8.31	539	9.41	-22.4	-176.0	0.28	0.56	10.58	39.84	0.05	0.08	79.93	205.52
	S-R6	2023/06/16	15:45	8.17	472	6.45	-23.0	-179.4	0.50	0.50	8.66	37.72	0.17	1.96	89.08	181.96
	S-R7	2023/06/16	16:00	8.09	577	7.97	-22.1	-173.8	0.58	0.58	11.48	39.18	0.08	0.05	79.40	209.52
	S-R8	2023/06/16	16:10	8.14	519	9.51	-22.1	-174.8	0.58	0.58	8.78	34.58	0.00	0.06	50.82	182.55
	S-RG10	2023/06/16	14:00	7.9	688	3.12	-22.7	-178.2	1.16	0.66	13.12	48.56	0.22	0.11	121.00	248.06
	S-RG11	2023/06/16	13:30	7.89	740	0.94	-22.9	-178.4	1.16	0.62	14.30	52.64	0.15	0.06	132.69	268.59
	S-RG8	2023/06/16	14:35	7.83	730	0.88	-23.0	-178.5	1.16	0.64	14.28	51.80	0.00	0.10	128.98	266.43
	S-RG9A	2023/06/16	14:25	7.73	654	1.79	-22.8	-178.2	0.90	0.58	12.56	48.34	0.19	0.13	112.67	244.94
	S-RG9B	2023/06/16	14:10	7.7	568	0.68	-22.8	-177.4	1.14	0.58	12.56	47.42	0.12	0.09	111.99	242.46
	S-GL1	2023/06/19	14:35	8.3	132	1.6	-21.2	-165.4	0.00	0.54	1.42	12.32	0.04	0.05	24.17	53.11
	S-GL1	2023/06/21	12:05	7.84	38	1.43	-22.4	-173.6	0.00	0.46	0.76	7.42	0.01	0.04	5.79	34.14

Table S1: Physico-hydrochemical values of samples and measurements at sampling sites from June 2022 to June 2023.