

Appendix 1. Climatic and environmental variables of the Kola Peninsula Arctic lakes, average data from 2007-2010

Nº of lakes	Name	Latitude N	Longitude E	T mean/year	Rainfall, mm/y	Depth max, m	Depth mean, m	Lake S, km ²	Catch S, km ²	pH	P-PO ₄ , µg/l	N-NO ₃ , µg/l	Si, mg/l	Cond ₂₀ , mS/cm	No Spec
1	Well Nº 251	67°17'26,95"	35°01'58,30"	-1	600	0.10	0.02	0.001	0.001	7.23	4	36	6.75	51	17
2	Lake Goluboe	67°27'18,96"	35°12'26,47"	-1	600	9.00	4.00	0.2	0.54	6.38	1	2	0.37	12	17
3	Lake 199,4	67°27'55,70"	35°04'30,00"	-1	600	2.50	1.30	0.12	1.60	7.01	1	4	2.60	28	49
4	Lake 190,1	67°28'46,40"	35°06'24,70"	-1	600	2.90	1.20	0.08	1.00	5.84	1	6	0.40	12	13
5	Lake194,3	67°29'16,60"	35°30'38,80"	-1	600	1.80	0.90	0.11	6.73	6.97	2	14	3.86	26	19
6	Lake190,4	67°29'43,40"	35°06'00,20"	-1	600	3.00	1.30	0.06	1.78	6.53	2	2.13	2.91	20	30
7	Lake Inchyavr	67°29'50,80"	34°53'41,90"	-1	600	1.50	0.80	3.1	18.7	6.89	1	2	0.67	23	16
8	Lake Lastyavr	67°31'38,90"	35°09'17,07"	-1	600	3.00	1.00	0.67	4.44	6.55	1	3	0.57	19	16
9	Lake Sharyavr	67°33'34,50"	35°08'10,00"	-1	600	7.00	2.00	0.14	15.3	6.41	1	3	2.23	23	9
10	Lake Verkhniy Tsagayavr	67°33'53,00"	35°07'36,02"	-1	600	2.00	0.90	0.08	16.7	6.66	2	10	2.17	30	32
11	Lake Kovdor	67°33'14,06"	30°28'35,70"	-1	600	20.00	8.00	0.47	110.6	7.53	144	1680	4.04	325	22
12	Lake Nizhniy Tsagayavr	67°34'21,89"	35°07'13,06"	-1	600	2.00	0.90	0.81	383.2	6.85	2	73	4.27	38	38
13	Lake Bolshoy Vudjavr	67°35'00,83"	33°44'49,43"	-1	800	36.50	15.00	3.73	100	8.50	436	2585	2.33	137	55
14	Lake Beloe	67°35'15,60"	33°19'41,58"	-1	700	4.00	1.50	0.21	4.34	7.62	4	4	2.22	172	29
15	Lake Imandra, Yokostrov	67°35'03,96"	33°04'51,20"	0	600	12.00	7.00	10.25	12300	7.21	2	1	0.02	100	36
16	Lake Experimentalnoe	67°35'16,48"	33°19'38,11"	0	600	3.50	1.20	0.11	2.68	7.46	2	8	0.48	145	13
17	Well 23	67°38'06,17"	33°42'49,34"	-2	1000	0.10	0.02	0.001	0.001	9.43	36	145	3.10	60	7
18	Lake Maliy Vudyavr	67°39'53,27"	33°37'08,00"	-2	1000	14.50	4.20	0.54	23.92	7.00	2	42	2.49	27	25
19	Lake Nizhnee Chalmosero	67°39'10,00"	31°30'43,50"	-1	600	7.00	2.50	22.4		7.31	3	1	2.77	50	50
20	Lake Academicheskoye	67°43'42,42"	33°44'47,96"	-2	1200	18.00	9.00	0.31	2.04	6.75	0	53	1.38	13	21
21	Lake Nudjavr	67°55'29,92"	32°53'43,46"	-1	700	7.00	2.50	2.74	77.7	8.72	1	2	1.96	1459	25
22	Lake Imandra, Monche bay	67°55'46,79"	33°01'50,84"	-1	550	12.00	5.00	10.25	12300	7.10	2	6	2.31	56	42
23	Lake Lumbolka	67°57'29,99"	33°41'54,26"	-1	550	-	-	4.09		6.92	0	1	2.49	28.6	16
24	Lake Imandra, Kurenga bay exit	68°02'31,32"	33°21'58,02"	-1	550	15.00	5.00	10.25	12300	7.36	1	12	0.49	85.4	24

25	Lake Verkhnee Staroe	68°04'03,17"	32°53'53,74"	-1	550	11.00	4.50	2.4	30.8	7.57	1	3810	1.94	155.4	6
26	Lake Imandra, Kurenga	68°04'20,97"	33°20'23,53"	-1	550	23.00	12.00	10.25	12300	7.36	0	17	0.57	84.6	21
27	Lake Krugloe	68°05'41,69"	33°17'32,03"	-1	550	5.00	2.10	2.4	7.5	7.25	2	1	2.99	44.3	13
28	Lake Permusosero	68°09'03,83"	33°21'15,93"	-1	550	24.00	11.00	24.2	479	7.00	1	1	2.68	38	17
29	Lake Kahosero	68°10'22,91"	33°10'58,20"	-1	550	26.00	12.00	12.2	134.9	7.00	0	1490	0.62	62	9
30	Lake Kolosero	68°16'14,83"	33°15'29,14"	-1	550	21.00	9.00	66.28	598.2	7.50	2	8	6.40	91	15
31	Lake Kochejaur	68°34'47,95"	28°44'46,58"	-1	600	4.00	2.50	3.2	27.50	7.06	1	0	1.53	29	43
32	Lake Korovje	69°06'10,50"	34°55'11,30"	-1	700	6.00	1.60	1.51	8.22	6.71	0	10	1.27	38	30
33	Lake Dolgoe	69°07'40,10"	35°00'22,80"	0	600	3.50	1.20	0.72	7.5	6.80	0	1	0.79	41	63
34	Pasvik, Tyerebukta	69°12'33,66"	29°13'45,56"	0	600	16.00	10.50			6.67	1	1	1.73	21	7
35	Pasvik, Ruskebukta	69°13'16,49"	29°33'19,29"	0	600	18.00	10.00			7.01	2	2	0.19	28	16
36	Pasvik, Vaggatem	69°13'38,86"	29°11'18,33"	0	600	10.00	8.00			7.18	2	6	2.03	27	18
37	Lake Bolshoe Uragubskoye	69°19'56,96"	32°43'15,38"	0	600	-	12.00	8.97	70.60	6.61	1	20	1.24	35	29
38	Lake Vidyaevo-6	69°20'07,30"	32°51'45,97"	0	600	-	-			6.85	1	0	0.96	68	30
39	Lake Vidyaevo-8	69°20'11,76"	32°50'28,93"	0	600	-	4.60	0.08	0.44	6.64	2	1	1.44	45	21
40	Lake Vidyaevo-5	69°20'29,11"	32°51'45,50"	0	600	-	2.40	0.09	0.97	5.22	1	3	1.03	37	33
41	Lake Soltajarvi	69°20'47,00"	32°48'19,91"	0	600	-	12.00	0.88	9.21	6.19	1	1	0.40	35	26
42	Lake Vidyaevo-7	69°21'07,42"	32°53'06,68"	0	600	-	1.70	0.09	0.65	6.19	1	1	0.40	35	19
43	Lake Ala-Soukijarvi	69°23'56,39"	30°27'17,30"	0	500	-	3.80	0.14	7.21	6.77	1	1	1.78	35	40
44	Lake Souker-1	69°24'34,19"	30°27'56,49"	0	550	-	-			6.30	1	1	1.06	30	21
45	Lake Souker-2	69°24'59,44"	30°31'50,42"	0	550	-	-	0.06	0.42	6.78	2	1	2.20	78	23
46	Lake Souker-2, wetland	69°25'02,45"	30°28'39,80"	0	550	2.00	0.60			6.39	3	1	3.90	71	12
47	Lake Kuetsjarvi	69°28'48,73"	30°11'20,19"	0	500	20.00	10.50	17	628.40	7.28	1	10	1.49	97	13
48	Pasvik, Skrukkebukta	69°33'17,82"	30°08'08,46"	0	600	18.00	14.00			6.69	1	37	2.18	37.1	10