



Supplement of

Arctic glaciers and ice caps through the Holocene: a circumpolar synthesis of lake-based reconstructions

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Table S1. List of included studies.

Site ID	Region	Site # in regional compilations	Original reference(s)	Lake name	Glacier or ice cap name	Latitude	Longitude
S-1	Alaska	1	McKay and Kaufman (2009)	Greyling Lake	Unnamed glaciers	61.386081	-145.73755
S-2	Alaska	2	McKay and Kaufman (2009)	Hallet Lake	Unnamed glaciers	61.49115	-146.24142
S-3	Alaska	3	Levy et al. (2004)	Waskey Lake	Unnamed glaciers	59.863254	-159.20727
S-4	Alaska	4	Zander et al. (2013)	Cabin Lake	Sheridan Glacier	60.529421	-145.45985
S-5	Alaska	5	LaBrecque and Kaufman (2016)	Emerald Lake	Grewingk Glacier	59.62688	-151.06176
S-6	Alaska	6	Daigle and Kaufman (2009)	Goat Lake	North Goat Glacier	60.257331	-149.90773
S-7	Arctic Canada	1	Thomas et al. (2010)	Longspur Lake	Unnamed glaciers	69.8	-69.2
S-8	Arctic Canada	2	Moore et al. (2001); Miller et al. (2005)	Donard Lake	Caribou Glacier	66.666667	-61.783333
S-9	Arctic Canada	3	Thomas et al. (2010)	Big Round Lake	Kuuktannaq Glacier	69.865183	-68.859517
S-10	Arctic Canada	4	Thomas et al. (2010)	Yougloo Lake	Kuuktannaq Glacier	69.83085	-68.607267
S-11	Arctic Canada	5	Thomas et al. (2010)	Igloo Door Lake	Kuuktannaq Glacier	69.853	-68.691017
S-12	Greenland	1	Medford et al. (2021)	Rapids and Bunny lakes	Renland Ice Cap	71.03272	-27.466573
S-13	Greenland	2	Larsen et al. (2019)	Lake T3 and T8	Flade Isblink Ice Cap	81.33	-17.44
S-14	Greenland	3	Larocca et al. (2020a)	Alakariqssoq Lake	Unnamed glaciers	60.681783	-45.295083
S-15	Greenland	4	Larocca et al. (2020a)	Uunartoq Lake	Unnamed glaciers	60.582117	-45.0507
S-16	Greenland	5	Schweinsberg et al. (2019)	Pauiaivik Lake	Sermikassak Glacier	70.338693	-51.454854
S-17	Greenland	6	Adamson et al. (2019)	Madsen Lake	Slettebreen Ice Cap	74.58	-21.07
S-18	Greenland	7	Axford et al. (2019)	Deltasø Lake	North Ice Cap	76.75952	-67.61005
S-19	Greenland	8	Larsen et al. (2017)	Badesø Lake	RGI40-05.07196 and RGI40-05.07208 glaciers	64.13	-51.36
S-20	Greenland	9	Schweinsberg et al. (2019)	Saqqap Tasersua Lake	Qangattaq Ice Cap	70.183333	-51.5
S-21	Greenland	10	Schweinsberg et al. (2017)	Sikuiui Lake	Qangattaq Ice Cap	70.219751	-51.122524
S-22	Greenland	11	Larsen et al. (2017)	Langesø Lake	RGI40-05.07196 Glacier	64.13	-51.33
S-23	Greenland	12	Lowell et al. (2013)	Bone Lake	Istorvet Ice Cap	70.89	-22.27
S-24	Greenland	13	Schweinsberg et al. (2018)	Crash Lake	Unnamed glacier	65.68131	-51.29924
S-25	Greenland	14	Larocca et al. (2020a)	Qvnerit Lake	Unnamed glaciers	59.970383	-43.813717
S-26	Greenland	15	Levy et al. (2014)	Two Move Lake	Bregne Ice Cap	70.912	-25.63
S-27	Greenland	16	Larocca et al. (2020b)	Pers Lake	Unnamed glaciers	63.8032	-51.19869
S-28	Greenland	17	van der Bilt et al. (2018)	Ymer Lake	Ymer Glacier	65.62242	-37.724488
S-29	Greenland	18	Larsen et al. (2017)	Lake IS21	Qasigiannqut Ice Cap	64.166583	-51.338067

S-30	Greenland	19	Larsen et al. (2019)	Lake T4	Ice cap 1	81.36	-19.47
S-31	Greenland	20	Larsen et al. (2019)	Lake T2 and T6	Ice cap 2	81.39	-18.83
S-32	Greenland	21	Balascio et al. (2015)	Kulusuk Lake	Kulusuk Glaciers	65.56	-37.11
S-33	Greenland	22	Larsen et al. (2021)	Smaragd Sø Lake	Mittivakkat Glacier	65.6926	-37.9058
S-34	Iceland	1	Striberger et al. (2012)	Lake Lögurinn	Eyjabakkajökull Glacier	65.25	-14.41667
S-35	Iceland	2	Larsen et al. (2012)	Lake Hvítarvatn	Langjökull Ice Cap	64.616667	-19.85
S-36	Iceland	3	Harning et al. (2016a; 2016b)	Tröllkonuvatn Lake	Drangajökull Ice Cap	66.14252	-22.05607
S-37	Iceland	4	Harning et al. (2016a; 2016b)	Efra-Eyvindarfjarðarvatn Lake	Drangajökull Ice Cap	66.0778	-21.95312
S-38	Iceland	5	Harning et al. (2016a)	Skorarvatn Lake	Drangajökull Ice Cap	66.25627	-22.32213
S-39	Scandinavia	1	Lie et al. (2004)	Lake Bukkehåmmårtjørna	Bukkehåmmårbreen Glacier	61.462911	8.711695
S-40	Scandinavia	2	Matthews et al. (2000)	Bøvertunsvatnet Lake	Leirbreen Glacier	61.64271	8.072605
S-41	Scandinavia	3	Matthews et al. (2000)	Dalsvatnet Lake	Liabreen and Høybreane glaciers	61.694001	8.179643
S-42	Scandinavia	4	Shakesby et al. (2007)	Liavatnet Lake	Sekkebreen, Tverrbyttbreen, Kuppenbreen, Kupbreen, Tverreggibreen, Greimbreen, Tverrbotnbreen, Harbardsbreen, and Fortundalsbreen glaciers	61.853766	7.756761
S-43	Scandinavia	5	Vasskog et al. (2012)	Lake Nerfloen	Numerous glaciers (presently 52) including five outlet glaciers of Jostedalbreen Glacier	61.933333	6.866667
S-44	Scandinavia	6	Nesje et al. (2000)	Nedre Sygneskardvatnet Lake	Sygneskardbreen Glacier	61.872287	7.292228
S-45	Scandinavia	7	Dahl and Nesje (1994); Dahl; Nesje (1996)	Lake Hestebotnvatn and Tungevatn	N Hardangerjøkulen Glacier	60.544659	7.700267
S-46	Scandinavia	8	Karlén and Matthews (1992); Matthews and Karlén (1992)	Gjuvvatnet Lake	Unnamed glacier	61.527391	7.839419
S-47	Scandinavia	9	Nesje et al. (1994)	Lake Isdalsvatn	SW Hardangerjøkulen Glacier	60.449023	7.292332
S-48	Scandinavia	10	Bakke et al. (2010)	Vestre- and Austre Kjennsvatnet lakes	Austre Okstindbreen Glacier	66.069918	14.255108
S-49	Scandinavia	11	Bakke et al. (2005b; 2005c)	Dravladalsvatn, Vassdalsvatn, and Vetlavatn lakes	N Folgefonna Glacier	60.200678	6.466234
S-50	Scandinavia	12	Seierstad et al. (2002)	Lake Grøningstølsvatnet	Grovabreen Glacier	61.4461	6.47
S-51	Scandinavia	13	Nesje et al. (2001)	Lake Jarbuvatnet	Flatebreen Glacier	61.66202	6.786048
S-52	Scandinavia	14	Nesje et al. (2006)	Lake Vanndalsvatnet	Spørteggbreen Glacier	61.591799	7.361723
S-53	Scandinavia	15	Bakke et al. (2013)	Lake Nedre Sørsendalsvatn	Blåbreen Glacier	61.673883	6.28737

S-54	Scandinavia	16	Snowball and Sandgren (1996)	Lake Bajimus Gorsajávri, Vuolimus Gorsajávri, and Gaskkamus Gorsajávri	Kårsa Glacier	68.333333	18.5
S-55	Scandinavia	17	Bakke et al. (2005a)	Lake Aspvatnet	Lenangsbreene Glacier	69.750028	19.96051
S-56	Scandinavia	18	Rosqvist et al. (2004)	Vuolep Allakasjaure Lake	Unnamed glacier	68.168104	18.1933218
S-57	Scandinavia	19	Nesje et al. (1995)	Lake Grøndalsvatn	Ålfotbreen Glacier	61.68933	5.567813
S-58	Scandinavia	20	Wittmeier et al. (2015)	Lake Jøkelvatnet, Store Rundvatnet, and Storstvatnet	Langfjordjøkelen Ice Cap	70.133333	21.716667
S-59	Svalbard	1	Allaart et al. (2021)	Lake Femmilsjøen	NW Åsgardfonna Ice Cap	79.805308	15.730763
S-60	Svalbard	2	Røth et al. (2018)	Lake Vårfluesjøen	Bybreen, Uglebreen, Salomonbreen, and Grennabreen glaciers	79.7269	14.4112
S-61	Svalbard	3	Svendsen and Mangerud (1997)	Lake Linnèvatnet, east basin	Linnèbreen Glacier	78.05	13.833333
S-62	Svalbard	4	Røth et al. (2015)	Kløsa Lake	Karlbreen Glacier	79.2397	11.5358
S-63	Svalbard	5	de Wet et al. (2018)	Lake Gjøavatnet	Annabreen Glacier	79.766667	10.8625
S-64	Svalbard	6	van der Bilt et al., 2015	Lake Hajeren	North and South glaciers	79.259297	11.517847
S-65	Russian Arctic	1	Svendsen et al. (2019) & Haflidason et al. (2019)	Lake Bolshoye Shchuchye	Unnamed glaciers	67.884065	66.310627
S-66	Russian Arctic	2	Andreev et al. (2008)	Changeable Lake	Vavilov Ice Cap	79.120034	95.129673
S-67	Russian Arctic	3	Lubinski et al. (1999)	Non-lake record	Review of 16 glacier margins	80.7994	55.263712