

Supplementary material for

Which glaciers are the largest in the world?

Ann Windnagel, Regine Hock, Fabien Maussion, Frank Paul, Philipp Rastner, Bruce Raup, Michael Zemp

For further details on the data set that this paper is based on, see NSIDC Special Report 23 – A Summary of the Global Glacier Landscape: The Largest Glaciers and Glacier Complexes in the 19 Glacial Regions of the World (<https://nsidc.org/sites/nsidc.org/files/technical-references/NSIDC-Special-Report-23.pdf>).

Table S1. The three largest glacier complexes and the three largest glaciers are given for the 19 first-order glacier regions. Region 19 is subdivided into the Antarctic mainland and the Antarctic and Subantarctic Islands. Glacier complexes without specific names were labelled according to its largest glacier(s) or prominent geographical feature, e.g., Grosser Aletsch Glacier Complex or Ushkovsky Volcano Icefield. For glaciers, the corresponding GLIMS ID and RGI ID are provided. If an ID is not applicable, it is designated with N/A. For glacier complexes, the list of corresponding IDs is found as part of the data set available from NSIDC (<https://doi.org/10.7265/0k6h-yn09>) along with the NSIDC Report noted above. The “Year” column indicates the year or range of years the area refers to. *Note that we considered the ice body on the Antarctic Peninsula as a glacier complex although it is connected to the Antarctic Ice Sheet.

Region name (Region No.)	Glacier or glacier complex name	GLIMS ID/ RGI ID	Area (km ²)	Year
Alaska (1)	Malaspina-Seward Glacier Complex	glacier complex	30195	1999-2010
	Brady-Carroll Glacier Complex	glacier complex	5817	2005-2010
	Knik-Harvard-Columbia Glacier Complex	glacier complex	5183	2007-2009
	Malaspina-Seward Glacier	G219787E60289N/ RGI60-01.13696	3363	2010
	Bering Glacier	G217991E60521N/ RGI60-01.13635	3025	2010
	Hubbard Glacier	G220740E60158N/ RGI60-01.14443	2834	2010
Western Canada and USA (2)	Klinaklini Glacier Complex	glacier complex	905	2004
	Franklin Glacier Complex	glacier complex	704	2004
	Bishop Glacier Complex	glacier complex	509	2004
	Klinaklini Glacier	G234082E51540N/ RGI60-02.05157	470	2004
	Franklin Glacier	G234658E51318N/ RGI60-02.12428	153	2004
	Heakamie Glacier	N/A/ RGI60-02.03578	137	2004

Arctic Canada North (3)	Northern Ellesmere Icefield	glacier complex	19521	1999
	Prince of Wales Icefield	glacier complex	19009	1999
	Agassiz Ice Cap	glacier complex	18038	1999
	Wykeham Glacier South	G280449E77998N/ RGI60-03.01710	3176	1999
	Devon Ice Cap Southeast Glacier No. 2	G278488E75058N/ RGI60-03.02467	2623	1999
	Croker Bay Glacier	G276805E75127N/ RGI60-03.02489	2171	1999
Arctic Canada South (4)	Penny Ice Cap	glacier complex	6508	2000-2002
	Barnes Ice Cap	glacier complex	5863	2000-2002
	Bylot Island Icefield	glacier complex	4712	2000-2001
	Barnes Ice Cap South Dome North Slope Glacier	G286943E70021N/ RGI60-04.06187	2771	2002
	Barnes Ice Cap Loeken Glacier No. 2	G286791E69818N/ RGI60-04.06188	1051	2000
	Barnes Ice Cap South-East Slope Glacier	G286036E69984N/ RGI60-04.06181	960	2000
Greenland Periphery (5)	Flade Isblink Glacier Complex	glacier complex	9025	2001
	Hans Tausen Glacier Complex	glacier complex	4114	1999
	Stauning Alps Glacier Complex	glacier complex	3466	2000-2001
	Tjalfe Glacier	G322065E82674N/ RGI60-05.10749	739	1999
	Qaarajuttok Ice Cap South-East Glacier	G309162E65933N/ RGI60-05.00459	604	2000
	Knud Rasmussen Glacier	G323748E66257N/ RGI60-05.13995	583	2000
Iceland (6)	Vatnajökull Ice Cap	glacier complex	8092	1999
	Langjökull Ice Cap	glacier complex	921	2000
	Hofsjökull Ice Cap	glacier complex	890	1999
	Skeidararjökull	N/A/ RGI60-06.00475	1561	2000
	Bruarjökull	N/A/ RGI60-06.00377	1429	2000
	Breidamerkurjökull	N/A/ RGI60-06.00483	1068	2000

Svalbard and Jan Mayen (7)	Asgardfonna-Balderfonna-Olaf V Glacier Complex	glacier complex	8371	1961-2008
	Austfonna Ice Cap	glacier complex	8067	2001-2008
	Holtedalfonna-Isachsenfonna Glacier Complex	glacier complex	5377	1966-2010
	Storstraumbreen	G024340E79634N/ RGI60-07.00027	1226	2001
	Bråsvellbreen	G023559E79453N/ RGI60-07.00025	1096	2001
	Negribreen	G018042E78675N/ RGI60-07.01506	964	2008
Scandinavia (8)	Jostedalsbreen Icefield	glacier complex	500	2006
	Western Svartisen Icefield	glacier complex	219	1999
	Southern Folgefonna Icefield	glacier complex	163	2002
	Austerdalsisen	G014136E66566N/ RGI60-08.00281	55	1999
	Tunsbergdalsbreen	G006998E61646N/ RGI60-08.00434	47	2006
	Nigardsbreen	G007099E61715N/ RGI60-08.01126	42	2006
Russian Arctic (9)	Severny Island Northern Ice Cap	glacier complex	20667	2002-2015
	Academy of Sciences Ice Cap	glacier complex	5574	2006
	Karpinsky-University Glacier Complex	glacier complex	4033	2001
	Moshnyj Glacier	G062382E75725N/ N/A	1257	2013
	Academy of Sciences Ice Cap Basin North Glacier	G094346E80731N/ N/A	1244	2006
	Academy of Sciences Ice Cap Basin West Glacier	G093532E80531N/ N/A	1033	2006
Asia, North (10)	Tavan Bogd Icefield	glacier complex	137	1989-2011
	Ushkovsky Volcano Icefield	glacier complex	123	2011
	Snegovoy-Ostry Icefield	glacier complex	114	2000
	Potanin Glacier	G087851E49154N/ RGI60-10.02000	37	2011
	Slunina Glacier	G160564E57830N/ RGI60-10.04181	34	2011
	Erman Glacier	G160561E56087N/ RGI60-10.04024	33	2011

Central Europe (10)	Grosser Aletsch Glacier Complex	glacier complex	214	1973-2009
	Gorner Glacier Complex	glacier complex	113	1998-2011
	Gepatsch-Hintereis Glacier Complex	glacier complex	47	1969-2015
	Grosser Aletsch Glacier	G008032E46504N/ N/A	78	2009
	Gorner Glacier	G007800E45965N/ N/A	40	2009
	Fiescher Glacier	G008144E46504N/ N/A	29	2009
Caucasus and Middle East (12)	Bezengi Glacier Complex	glacier complex	153	1960-2014
	Elbrus Glacier Complex	glacier complex	116	1960-2014
	Karaugom Glacier Complex	glacier complex	59	1999-2014
	Bezengi Glacier	G043100E43030N/ N/A	37	2014
	Dikh-Kotiu-Bugoisy Glacier	G043183E42984N/ N/A	28	2014
	Karaugom Glacier	G043748E42782N/ N/A	24	2014
Asia, Central (13)	Western Kunlun Icefield	glacier complex	2786	2010-2011
	South Inylchek Glacier Complex	glacier complex	2744	2002-2007
	Fedchenko Glacier Complex	glacier complex	1743	2000-2004
	Fedchenko Glacier	G072126E38989N/ RGI60-13.54431	700	2000
	South Inylchek Glacier	G079959E42153N/ RGI60-13.05000	368	2002
	Tuomuer Glacier	G079990E41931N/ RGI60-13.43207	358	2007
Asia, South West (14)	Siachen Glacier Complex	glacier complex	7401	1998-2010
	Batura Glacier Complex	glacier complex	703	1998-2007
	Lunkho e Dosare Glacier Complex	glacier complex	408	2000-2007
	Siachen Glacier	G077129E35401N/ N/A	926	2006
	Baltoro Glacier	G076367E35737N/ N/A	632	2006
	Biafo Glacier	G075708E35873N/ N/A	482	2007

Asia, South East (15)	Yanong Glacier Complex	glacier complex	955	1964-2010
	Rongbuk Glacier Complex	glacier complex	928	2005
	Zemu Glacier Complex	glacier complex	721	1966-2010
	Yanong Glacier	G096685E29331N/ RGI60-15.11909	180	2005
	Gangotri Glacier	G079147E30802N/ N/A	177	2008
	Xirinongpu Glacier	G096764E29206N/ RGI60-15.11926	96	2005
Low Latitudes (16)	Vilcanota Glacier Complex	glacier complex	121	2000
	Chaupi Orco-Soral Glacier Complex	glacier complex	111	2000
	Ancohumas Glacier Complex	glacier complex	86	2000
	Jancapampa Glacier	G282414E08866S/ N/A	16	2005
	Pucca Orcco Glacier	G289157E13939S/ RGI60-16.01251	15	2000
	Japupunta Glacier	G288994E13746S/ RGI60-16.01053	14	2000
Southern Andes (17)	Southern Patagonian Icefield	glacier complex	13326	2000-2007
	Northern Patagonian Icefield	glacier complex	4018	2000-2007
	Cordillera Darwin Icefield	glacier complex	1894	2000-2007
	Pio XI Glacier	G286372E49263S/ N/A	1345	2007
	Upsala Glacier	G286639E49733S/ N/A	883	2007
	O'Higgins Glacier	G286651E48942S/ N/A	883	2007
New Zealand (18)	Tasman Glacier Complex	glacier complex	249	1978-2009
	Adams-Lambert Glacier Complex	glacier complex	43	1978
	Lyell-Ramsay Glacier Complex	glacier complex	31	1978
	Tasman Glacier	G170307E43519S/ N/A	88	2009
	Fox Glacier	G170162E43537S/ N/A	34	2009
	Franz Josef Glacier	G170225E43495S/ N/A	33	2009

Antarctic Mainland (19)	Antarctic Peninsula Ice Body*	glacier complex	80852	2002
	Seller Glacier	G294015E69537S/ N/A	7018	2002
	Mercator Ice Piedmont	G294357E68789S/ N/A	3499	2002
	Anthony Glacier	G296693E69777S/ N/A	2155	2002
Antarctic and Subantarctic Islands (19)	Alexander Island Glacier Complex	glacier complex	47486	1979-2001
	Thurston Island Ice Cap	glacier complex	11133	1972
	Carney Island Ice Cap	glacier complex	6005	1956
	Thurston Island Glacier No. 1	N/A/ RGI60-19.00423	5261	1972
	Alexander Island Glacier No. 1	N/A/ RGI60-19.00124	4766	1997
	Alexander Island Glacier No. 2	N/A/ RGI60-19.00134	3980	1997