

SUPPLEMENTARY MATERIAL:

Frontal variations and surface area changes of Swedish glaciers during 2017-2023

Martin HOUSSAIS¹, Milan HOREMUZ², Jamie BARNETT^{1,3}, Anders BERGWALL¹, Nina KIRCHNER^{1,4}

¹*Tarfala Research Station, Stockholm University, Sweden*

²*Department of Real Estate and Construction Management, Royal Institute of Technology KTH, Sweden*

³*Department of Geological Sciences, Stockholm University, Sweden*

⁴*Department of Physical Geography, Stockholm University, Sweden*

Correspondence: Nina Kirchner <nina.kirchner@su.se>

REFERENCES

- GLIMS and NSIDC (2005, updated 2018) Global Land Ice Measurements from Space glacier database. Compiled and made available by the international GLIMS community and the National Snow and Ice Data Center, Boulder CO, U.S.A. (doi: 10.7265/N5V98602)
- RGI Consortium (2023) Randolph Glacier Inventory - A Dataset of Global Glacier Outlines, Version 7.0. Boulder, Colorado USA. NSIDC: National Snow and Ice Data Center. (doi: doi:10.5067/f6jmovy5navz)
- WGMS (2024) Fluctuations of Glaciers Database. World Glacier Monitoring Service, Zurich, Switzerland (doi: 10.5904/wgms-fog-2024-01)
- WGMS and National Snow and Ice data Centre (comps) (2012) World Glacier Inventory, version 2. (doi: doi.org/10.7265/N5/NSIDC-WGI-2012-02.)

Table S1. List over all 277 Swedish glaciers considered in this study, with their area as of 2017 and 2023. Numbering (ID) according to different inventories (GLIMS and NSIDC, 2005; WGMS and National Snow and Ice data Centre (comps.), 2012; WGMS, 2024; RGI Consortium, 2023). Where no numbering/ID is available (e.g. when new glaciers formed due to splitting of glaciers) centre coordinates are given. Regions are according to Fig. 1 in the main document

. Glaciers that shrank to surface areas $< 0.1 \text{ km}^2$ between 2017 and 2023 are rendered in bold.

GLIMS ID	WGMS ID	RGI v7 ID	Region	area 2017 (km^2)	area 2023 (km^2)
G012218E63005N	99476	RGI2000-v7.0-G-08-03409	Helagsfjället	0.08	0.08
G012439E62912N	19467	RGI2000-v7.0-G-08-03410	Helagsfjället	0.40	0.38
G015157E65937N	99479	RGI2000-v7.0-G-08-01769	Vindelfjällen	0.18	0.13
G015182E65934N	99480	RGI2000-v7.0-G-08-01768	Vindelfjällen	0.38	0.30
G015229E65931N	19469	RGI2000-v7.0-G-08-01767	Vindelfjällen	0.49	0.43
G015247E65898N	19468	RGI2000-v7.0-G-08-01770	Vindelfjällen	0.87	0.64
G015252E65850N	99478	RGI2000-v7.0-G-08-01773	Vindelfjällen	0.19	0.13
G015264E65855N	99481	RGI2000-v7.0-G-08-01772	Vindelfjällen	0.20	0.17
G015271E65899N	99477	RGI2000-v7.0-G-08-01771	Vindelfjällen	0.38	0.33
G015688E66089N	99482	RGI2000-v7.0-G-08-01766	Vindelfjällen	0.28	0.17
G015693E66095N	99483	RGI2000-v7.0-G-08-01765	Vindelfjällen	0.17	0.12
G016391E67127N	341	RGI2000-v7.0-G-08-00620	Sulitelma	8.90	8.48
G016444E67154N	19366	RGI2000-v7.0-G-08-00618	Sulitelma	0.85	0.76
G016471E67135N	19365	RGI2000-v7.0-G-08-00619	Sulitelma	10.39	9.97
G016697E67187N	19367	RGI2000-v7.0-G-08-00622	Sulitelma	0.38	0.30
G016813E67775N	19364	RGI2000-v7.0-G-08-00877	Kaitum	0.34	0.30
G016898E67228N	99343	RGI2000-v7.0-G-08-00623	Sulitelma	0.09	0.03
G016914E67217N	99344	RGI2000-v7.0-G-08-00624	Sulitelma	0.15	0.09
G016999E67352N	99348	RGI2000-v7.0-G-08-00828	Sulitelma	0.24	0.17
G017069E66991N	99357	RGI2000-v7.0-G-08-01764	Sulitelma	0.21	0.18
G017218E67158N	99355	RGI2000-v7.0-G-08-00625	Sarek	0.17	0.09
G017275E67297N	19377	RGI2000-v7.0-G-08-00636	Sarek	0.34	0.21
G017312E67298N	19372	RGI2000-v7.0-G-08-00635	Sarek	0.64	0.50
G017315E67508N	99349	RGI2000-v7.0-G-08-00692	Sarek	0.60	0.54
G017317E67365N	19368	RGI2000-v7.0-G-08-00827	Sarek	1.10	0.97
G017322E67187N	99356	RGI2000-v7.0-G-08-00626	Sarek	0.21	0.15
G017330E67369N	99347	RGI2000-v7.0-G-08-00826	Sarek	0.27	0.22
G017340E67228N	19384	RGI2000-v7.0-G-08-00629	Sarek	0.44	0.37
G017341E67292N	19371	RGI2000-v7.0-G-08-00634	Sarek	0.75	0.67
G017346E67217N	19381	RGI2000-v7.0-G-08-00628	Sarek	0.63	0.24

GLIMS ID	WGMS ID	RGI v7 ID	Region	area 2017 (km ²)	area 2023 (km ²)
G017353E67262N	99346	RGI2000-v7.0-G-08-00633	Sarek	0.31	0.26
G017362E67361N	19379	RGI2000-v7.0-G-08-00825	Sarek	0.74	0.70
G017379E67241N	19380	RGI2000-v7.0-G-08-00630	Sarek	2.94	2.56
G017382E67210N	99352	RGI2000-v7.0-G-08-00627	Sarek	0.15	0.09
G017386E67576N	99367	RGI2000-v7.0-G-08-00694	Sarek	0.64	0.58
G017392E67362N	19369	RGI2000-v7.0-G-08-00824	Sarek	0.35	0.28
G017393E67258N	19382	RGI2000-v7.0-G-08-00632	Sarek	2.64	2.48
G017399E67569N	19392	RGI2000-v7.0-G-08-00693	Sarek	0.38	0.32
G017405E67577N	19388	RGI2000-v7.0-G-08-00695	Sarek	0.49	0.43
G017413E67313N	19375	RGI2000-v7.0-G-08-00637	Sarek	0.61	0.50
G017415E67351N	99354	RGI2000-v7.0-G-08-00823	Sarek	3.05	2.82
G017421E67250N	19378	RGI2000-v7.0-G-08-00631	Sarek	1.43	1.20
G017421E67424N	99350	RGI2000-v7.0-G-08-00663	Sarek	1.67	1.40
G017430E67315N	99351	RGI2000-v7.0-G-08-00638	Sarek	0.19	0.15
G017431E67577N	19395	RGI2000-v7.0-G-08-00696	Sarek	2.23	2.04
G017435E67392N	19376	RGI2000-v7.0-G-08-00661	Sarek	0.58	0.50
G017443E67410N	337	RGI2000-v7.0-G-08-00662	Sarek	4.83	4.29
G017444E67302N	19370	RGI2000-v7.0-G-08-00639	Sarek	2.15	1.87
G017458E67357N	19373	RGI2000-v7.0-G-08-00822	Sarek	0.38	0.30
G017468E67583N	344	RGI2000-v7.0-G-08-00697	Sarek	1.23	1.10
G017470E67572N	19394	RGI2000-v7.0-G-08-00698	Sarek	0.44	0.41
G017470E67909N	19386	RGI2000-v7.0-G-08-01762	Kaitum	0.56	0.47
G017480E67285N	99375	RGI2000-v7.0-G-08-00648	Sarek	0.32	0.28
G017485E67489N	99473	RGI2000-v7.0-G-08-00691	Sarek	0.18	0.16
G017486E67573N	19390	RGI2000-v7.0-G-08-00699	Sarek	0.35	0.33
G017488E67406N	19417	RGI2000-v7.0-G-08-00659	Sarek	0.46	0.31
G017489E67323N	99353	RGI2000-v7.0-G-08-00640	Sarek	0.57	0.51
G017490E67393N	19374	RGI2000-v7.0-G-08-00660	Sarek	1.75	1.53
G017491E67310N	99390	RGI2000-v7.0-G-08-00641	Sarek	0.23	0.15
G017492E67324N	19383	RGI2000-v7.0-G-08-00642	Sarek	0.12	0.10
G017494E67327N	99373	RGI2000-v7.0-G-08-00643	Sarek	0.28	0.23
G017500E67581N	19391	RGI2000-v7.0-G-08-00700	Sarek	0.70	0.62

GLIMS ID	WGMS ID	RGI v7 ID	Region	area 2017 (km ²)	area 2023 (km ²)
G017500E67900N0	99358	RGI2000-v7.0-G-08-01763	Kaitum	0.10	0.04
G017504E67292N	99388	RGI2000-v7.0-G-08-00647	Sarek	0.15	0.13
G017507E67592N	99368	RGI2000-v7.0-G-08-00702	Sarek	0.15	0.13
G017510E67301N	19418	RGI2000-v7.0-G-08-00646	Sarek	2.85	2.31
G017510E67331N	99387	RGI2000-v7.0-G-08-00644	Sarek	0.11	0.07
G017511E67588N	99370	RGI2000-v7.0-G-08-00701	Sarek	0.34	0.28
G017520E67316N	19416	RGI2000-v7.0-G-08-00645	Sarek	2.68	2.33
G017520E67403N	19409	RGI2000-v7.0-G-08-00658	Sarek	0.69	0.50
G017520E67476N	19410	RGI2000-v7.0-G-08-00671	Sarek	1.41	1.29
G017529E67421N	19414	RGI2000-v7.0-G-08-00664	Sarek	0.53	0.41
G017538E67396N	19413	RGI2000-v7.0-G-08-00657	Sarek	0.63	0.47
G017544E67488N	99400	RGI2000-v7.0-G-08-00672	Sarek	0.49	0.45
G017546E67176N	99404	RGI2000-v7.0-G-08-00821	Sarek	0.27	0.18
G017558E67174N	99411	RGI2000-v7.0-G-08-00820	Sarek	0.16	0.10
G017571E67471N	336	RGI2000-v7.0-G-08-00670	Sarek	7.02	6.72
G017575E67171N	99407	RGI2000-v7.0-G-08-00819	Sarek	0.24	0.18
G017575E67350N	19397	RGI2000-v7.0-G-08-00655	Sarek	0.95	0.87
G017582E67390N	99398	RGI2000-v7.0-G-08-00656	Sarek	0.23	0.18
G017583E67186N	19426	RGI2000-v7.0-G-08-00816	Sarek	2.44	2.21
G017584E67322N	19411	RGI2000-v7.0-G-08-00651	Sarek	0.34	0.20
G017584E67448N	19405	RGI2000-v7.0-G-08-00665	Sarek	0.74	0.67
G017589E67344N	19415	RGI2000-v7.0-G-08-00654	Sarek	0.85	0.79
G017592E67485N	99391	RGI2000-v7.0-G-08-00673	Sarek	0.26	0.23
G017593E67304N	99380	RGI2000-v7.0-G-08-00649	Sarek	8.46	7.51
G017595E67452N	99396	RGI2000-v7.0-G-08-00666	Sarek	0.18	0.13
G017601E67460N	19406	RGI2000-v7.0-G-08-00669	Sarek	0.87	0.78
G017606E67193N	99408	RGI2000-v7.0-G-08-00817	Sarek	0.15	0.08
G017607E67321N	99382	RGI2000-v7.0-G-08-00650	Sarek	0.39	0.35
G017611E67333N	19424	RGI2000-v7.0-G-08-00652	Sarek	4.57	1.38
G017615E67445N	99379	RGI2000-v7.0-G-08-00667	Sarek	0.14	0.10
G017620E67454N	19407	RGI2000-v7.0-G-08-00668	Sarek	1.37	1.28
G017631E67345N	19404	RGI2000-v7.0-G-08-00653	Sarek	1.30	1.08
G017636E67199N	19425	RGI2000-v7.0-G-08-00818	Sarek	0.30	0.25

GLIMS ID	WGMS ID	RGI v7 ID	Region	area 2017 (km ²)	area 2023 (km ²)
G017647E67429N	99377	RGI2000-v7.0-G-08-00690	Sarek	0.21	0.19
G017655E67172N	327	RGI2000-v7.0-G-08-00814	Sarek	9.52	8.76
G017655E67449N	339	RGI2000-v7.0-G-08-00675	Sarek	4.68	4.47
G017658E67472N	99378	RGI2000-v7.0-G-08-00674	Sarek	0.17	0.15
G017682E67156N	99410	RGI2000-v7.0-G-08-00815	Sarek	0.08	0.04
G017685E67187N	99406	RGI2000-v7.0-G-08-00813	Sarek	0.23	0.15
G017693E67415N	338	RGI2000-v7.0-G-08-00689	Sarek	6.41	6.00
G017703E67440N	19412	RGI2000-v7.0-G-08-00676	Sarek	3.68	3.35
G017713E67722N	99361	RGI2000-v7.0-G-08-00703	Kaitum	0.29	0.23
G017714E67400N	99374	RGI2000-v7.0-G-08-00688	Sarek	0.29	0.24
G017724E67382N	99397	RGI2000-v7.0-G-08-00685	Sarek	0.18	0.15
G017728E67400N	99384	RGI2000-v7.0-G-08-00687	Sarek	0.22	0.16
G017730E67441N	99401	RGI2000-v7.0-G-08-00677	Sarek	0.31	0.27
G017735E67203N	99409	RGI2000-v7.0-G-08-00812	Sarek	0.09	0.03
G017737E67716N	99362	RGI2000-v7.0-G-08-00704	Kaitum	0.46	0.33
G017748E67392N	19408	RGI2000-v7.0-G-08-00686	Sarek	2.18	2.00
G017750E67429N	19423	RGI2000-v7.0-G-08-00678	Sarek	2.55	2.36
G017752E67228N	99394	RGI2000-v7.0-G-08-00807	Sarek	0.34	0.21
G017780E67412N	19421	RGI2000-v7.0-G-08-00679	Sarek	4.72	4.40
G017781E67226N	19398	RGI2000-v7.0-G-08-00806	Sarek	1.04	0.92
G017783E67253N	99386	RGI2000-v7.0-G-08-00805	Sarek	0.14	0.01
G017789E67385N	19401	RGI2000-v7.0-G-08-00683	Sarek	1.51	1.39
G017790E67369N	99395	RGI2000-v7.0-G-08-00684	Sarek	0.37	0.32
G017791E67715N	19396	RGI2000-v7.0-G-08-00705	Kaitum	1.73	1.44
G017797E67216N	99392	RGI2000-v7.0-G-08-00808	Sarek	0.28	0.23
G017806E67392N	99402	RGI2000-v7.0-G-08-00682	Sarek	0.18	0.13
G017807E67245N	99393	RGI2000-v7.0-G-08-00804	Sarek	0.12	0.09
G017809E67402N	19400	RGI2000-v7.0-G-08-00680	Sarek	2.98	2.67
G017811E67722N	99369	RGI2000-v7.0-G-08-00706	Kaitum	0.26	0.20
G017824E67396N	99389	RGI2000-v7.0-G-08-00681	Sarek	0.06	0.01
G017827E67222N	99383	RGI2000-v7.0-G-08-00811	Sarek	0.58	0.47
G017831E67209N	99376	RGI2000-v7.0-G-08-00809	Sarek	0.09	0.06
G017831E67709N	19389	RGI2000-v7.0-G-08-00708	Kaitum	0.43	0.35
G017833E67719N	99360	RGI2000-v7.0-G-08-00707	Kaitum	0.11	0.08

GLIMS ID	WGMS ID	RGI v7 ID	Region	area 2017 (km ²)	area 2023 (km ²)
G017835E67202N	99405	RGI2000-v7.0-G-08-00810	Sarek	0.10	0.08
G017840E67703N	99363	RGI2000-v7.0-G-08-00709	Kaitum	0.14	0.05
G017846E67301N	99372	RGI2000-v7.0-G-08-00791	Sarek	0.21	0.15
G017858E67695N	99371	RGI2000-v7.0-G-08-00710	Kaitum	0.39	0.31
G017875E67686N	19393	RGI2000-v7.0-G-08-00711	Kaitum	0.36	0.26
G017885E67295N	19399	RGI2000-v7.0-G-08-00792	Sarek	0.85	0.73
G017885E67351N	99399	RGI2000-v7.0-G-08-00790	Sarek	0.15	0.13
G017893E67335N	99385	RGI2000-v7.0-G-08-00788	Sarek	0.18	0.11
G017902E67277N	19402	RGI2000-v7.0-G-08-00803	Sarek	0.24	0.17
G017902E67344N	19420	RGI2000-v7.0-G-08-00789	Sarek	1.68	1.57
G017908E67299N	99381	RGI2000-v7.0-G-08-00793	Sarek	0.21	0.18
G017916E67333N	19403	RGI2000-v7.0-G-08-00787	Sarek	0.37	0.33
G017916E67695N	99366	RGI2000-v7.0-G-08-00712	Kaitum	0.23	0.18
G017917E67785N	99359	RGI2000-v7.0-G-08-00716	Kaitum	0.24	0.20
G017917E67798N	19387	RGI2000-v7.0-G-08-00717	Kaitum	1.61	1.36
G017922E67292N		RGI2000-v7.0-G-08-00794	Sarek	2.19	1.91
G017922E67779N	19385	RGI2000-v7.0-G-08-00715	Kaitum	0.46	0.27
G017930E67277N	19419	RGI2000-v7.0-G-08-00795	Sarek	0.75	0.67
G017931E67686N	99364	RGI2000-v7.0-G-08-00713	Kaitum	0.19	0.10
G017944E67346N	99416	RGI2000-v7.0-G-08-00781	Sarek	2.23	2.06
G017944E67683N	99365	RGI2000-v7.0-G-08-00714	Kaitum	0.08	0.05
G017958E67278N	19429	RGI2000-v7.0-G-08-00796	Sarek	1.16	1.02
G017964E67291N	19431	RGI2000-v7.0-G-08-00800	Sarek	1.40	0.28
G017964E67320N	19430	RGI2000-v7.0-G-08-00786	Sarek	0.61	0.57
G017965E67335N	340	RGI2000-v7.0-G-08-00782	Sarek	3.07	2.84
G017968E67447N	19432	RGI2000-v7.0-G-08-00780	Sarek	0.77	0.65
G017984E67325N	19427	RGI2000-v7.0-G-08-00785	Sarek	0.55	0.48
G017988E67279N	19428	RGI2000-v7.0-G-08-00798	Sarek	0.62	0.41
G018002E67330N	19433	RGI2000-v7.0-G-08-00784	Sarek	0.54	0.42
G018010E67338N	99418	RGI2000-v7.0-G-08-00783	Sarek	0.17	0.12
G018012E67277N	99414	RGI2000-v7.0-G-08-00797	Sarek	0.15	0.12
G018013E67278N	99413	RGI2000-v7.0-G-08-00799	Sarek	0.22	0.16
G018038E68082N	342	RGI2000-v7.0-G-08-01715	Kebnekaise	2.97	2.81
G018059E67293N	99412	RGI2000-v7.0-G-08-00801	Sarek	0.06	0.03

GLIMS ID	WGMS ID	RGI v7 ID	Region	area 2017 (km ²)	area 2023 (km ²)
G018075E67279N	99417	RGI2000-v7.0-G-08-00802	Sarek	0.35	0.30
G018085E68122N	99340	RGI2000-v7.0-G-08-01666	Kebnekaise	0.26	0.20
G018099E68105N	99341	RGI2000-v7.0-G-08-01665	Kebnekaise	0.13	0.10
G018153E68104N	99339	RGI2000-v7.0-G-08-01664	Kebnekaise	0.01	0.01
G018166E68145N	19361	RGI2000-v7.0-G-08-01716	Kebnekaise	0.33	0.30
G018172E67863N	99424	RGI2000-v7.0-G-08-00718	Kebnekaise	0.18	0.16
G018177E67945N	19458	RGI2000-v7.0-G-08-00720	Kebnekaise	0.79	0.73
G018179E67933N	19450	RGI2000-v7.0-G-08-00719	Kebnekaise	1.58	1.53
G018206E68118N	19362	RGI2000-v7.0-G-08-01663	Kebnekaise	0.42	0.37
G018238E68357N	19464	RGI2000-v7.0-G-08-01722	Riksgränsen-Abisko	0.45	0.39
G018263E67565N	19439	RGI2000-v7.0-G-08-00776	Kaitum	0.31	0.24
G018267E67557N	99427	RGI2000-v7.0-G-08-00777	Kaitum	0.14	0.07
G018268E67574N	19438	RGI2000-v7.0-G-08-00775	Kaitum	1.36	1.10
G018269E67585N	99425	RGI2000-v7.0-G-08-00774	Kaitum	0.18	0.11
G018277E67542N	19437	RGI2000-v7.0-G-08-00778	Kaitum	0.58	0.43
G018284E68343N	99470	RGI2000-v7.0-G-08-01717	Riksgränsen-Abisko	0.13	0.10
G018297E67543N	99426	RGI2000-v7.0-G-08-00779	Kaitum	0.18	0.11
G018308E68350N	99471	RGI2000-v7.0-G-08-01718	Riksgränsen-Abisko	0.25	0.23
G018311E67990N	99464	RGI2000-v7.0-G-08-00721	Kebnekaise	0.18	0.12
G018317E68042N	99435	RGI2000-v7.0-G-08-00726	Kebnekaise	0.25	0.22
G018318E68004N	99446	RGI2000-v7.0-G-08-00722	Kebnekaise	0.21	0.20
G018324E68374N	19466	RGI2000-v7.0-G-08-01721	Riksgränsen-Abisko	0.59	0.52
G018325E68360N	330	RGI2000-v7.0-G-08-01719	Riksgränsen-Abisko	0.79	0.69
G018332E68545N	19363	RGI2000-v7.0-G-08-01143	Riksgränsen-Abisko	0.83	0.76
G018337E68019N	19454	RGI2000-v7.0-G-08-00723	Kebnekaise	0.72	0.64
G018341E68041N	99433	RGI2000-v7.0-G-08-00725	Kebnekaise	0.30	0.23
G018351E68048N	19456	RGI2000-v7.0-G-08-00727	Kebnekaise	1.07	0.93
G018352E68352N	19465	RGI2000-v7.0-G-08-01720	Riksgränsen-Abisko	0.61	0.54
G018357E67677N		RGI2000-v7.0-G-08-00772	Kaitum	0.36	0.31
G018361E68037N	19441	RGI2000-v7.0-G-08-00724	Kebnekaise	0.26	0.24
G018384E68049N	345	RGI2000-v7.0-G-08-00728	Kebnekaise	1.27	1.19
G018399E67969N	335	RGI2000-v7.0-G-08-00745	Kebnekaise	1.61	1.53
G018404E67682N	99422	RGI2000-v7.0-G-08-00771	Kaitum	0.11	0.09

GLIMS ID	WGMS ID	RGI v7 ID	Region	area 2017 (km ²)	area 2023 (km ²)
G018408E67987N	19446	RGI2000-v7.0-G-08-00747	Kebnekaise	0.94	0.89
G018412E67686N	99423	RGI2000-v7.0-G-08-00770	Kaitum	0.06	0.03
G018420E68073N	99458	RGI2000-v7.0-G-08-01662	Kebnekaise	0.09	0.05
G018426E68038N	99437	RGI2000-v7.0-G-08-00735	Kebnekaise	0.09	0.07
G018428E67965N	99467	RGI2000-v7.0-G-08-00744	Kebnekaise	0.30	0.27
G018428E68052N	331	RGI2000-v7.0-G-08-00729	Kebnekaise	0.84	0.77
G018432E67960N	19460	RGI2000-v7.0-G-08-00743	Kebnekaise	0.23	0.19
G018434E67976N	343	RGI2000-v7.0-G-08-00746	Kebnekaise	1.43	1.31
G018439E68002N	99463	RGI2000-v7.0-G-08-00736	Kebnekaise	0.29	0.28
G018446E68567N	99342	RGI2000-v7.0-G-08-01102	Riksgränsen-Abisko	0.03	0.02
G018452E67937N	99450	RGI2000-v7.0-G-08-00767	Kebnekaise	0.18	0.15
G018452E67964N	19449	RGI2000-v7.0-G-08-00742	Kebnekaise	0.30	0.25
G018454E68050N	99448	RGI2000-v7.0-G-08-00730	Kebnekaise	0.75	0.71
G018460E68062N	99465	RGI2000-v7.0-G-08-00731	Kebnekaise	0.20	0.19
G018461E67970N	99443	RGI2000-v7.0-G-08-00741	Kebnekaise	0.35	0.33
G018464E67974N	99442	RGI2000-v7.0-G-08-00739	Kebnekaise	0.04	0.03
G018469E67616N	19435	RGI2000-v7.0-G-08-00773	Kaitum	0.39	0.31
G018471E67969N	99455	RGI2000-v7.0-G-08-00740	Kebnekaise	0.04	0.02
G018473E68039N	19452	RGI2000-v7.0-G-08-00734	Kebnekaise	0.71	0.68
G018480E68045N	19451	RGI2000-v7.0-G-08-00733	Kebnekaise	0.68	0.61
G018490E67994N	99431	RGI2000-v7.0-G-08-00737	Kebnekaise	0.19	0.17
G018491E68050N	99449	RGI2000-v7.0-G-08-00732	Kebnekaise	0.14	0.12
G018496E67910N	334	RGI2000-v7.0-G-08-00765	Kebnekaise	3.21	3.12
G018500E68004N	19463	RGI2000-v7.0-G-08-00738	Kebnekaise	0.96	0.92
G018512E67971N	19447	RGI2000-v7.0-G-08-00748	Kebnekaise	0.55	0.50
G018515E67885N	99454	RGI2000-v7.0-G-08-00763	Kebnekaise	0.07	0.06
G018522E67944N	99452	RGI2000-v7.0-G-08-00753	Kebnekaise	0.16	0.15
G018523E67924N	19457	RGI2000-v7.0-G-08-00766	Kebnekaise	0.38	0.33
G018524E68381N	99472	RGI2000-v7.0-G-08-01723	Riksgränsen-Abisko	0.20	0.20
G018534E67896N	3963	RGI2000-v7.0-G-08-00762	Kebnekaise	1.44	1.40
G018537E67967N	99466	RGI2000-v7.0-G-08-00749	Kebnekaise	0.10	0.04
G018541E67940N	99434	RGI2000-v7.0-G-08-00752	Kebnekaise	0.05	0.04
G018546E67836N	99421	RGI2000-v7.0-G-08-00769	Kebnekaise	0.07	0.06
G018553E67839N	99420	RGI2000-v7.0-G-08-00768	Kebnekaise	0.08	0.07

GLIMS ID	WGMS ID	RGI v7 ID	Region	area 2017 (km ²)	area 2023 (km ²)
G018557E67946N	19461	RGI2000-v7.0-G-08-00751	Kebnekaise	1.30	1.21
G018558E67934N	99429	RGI2000-v7.0-G-08-00754	Kebnekaise	0.11	0.10
G018563E67924N	19448	RGI2000-v7.0-G-08-00759	Kebnekaise	0.68	0.65
G018564E67915N	333	RGI2000-v7.0-G-08-00760	Kebnekaise	1.27	1.20
G018564E67972N	19445	RGI2000-v7.0-G-08-00750	Kebnekaise	0.88	0.81
G018569E67903N	332	RGI2000-v7.0-G-08-00761	Kebnekaise	3.04	2.93
G018570E67887N	19436	RGI2000-v7.0-G-08-00764	Kebnekaise	0.28	0.25
G018574E68151N	328	RGI2000-v7.0-G-08-01653	Kebnekaise	2.03	1.88
G018579E67937N	99460	RGI2000-v7.0-G-08-00755	Kebnekaise	0.10	0.09
G018603E67938N	329	RGI2000-v7.0-G-08-00756	Kebnekaise	0.41	0.38
G018606E68111N	99432	RGI2000-v7.0-G-08-01654	Kebnekaise	0.18	0.17
G018608E67947N	19444	RGI2000-v7.0-G-08-00757	Kebnekaise	0.55	0.50
G018613E68054N	99428	RGI2000-v7.0-G-08-01661	Kebnekaise	0.05	0.04
G018621E68062N	99457	RGI2000-v7.0-G-08-01660	Kebnekaise	0.14	0.09
G018623E68137N	19462	RGI2000-v7.0-G-08-01651	Kebnekaise	0.82	0.77
G018630E68152N	99462	RGI2000-v7.0-G-08-01652	Kebnekaise	0.27	0.21
G018633E68098N	99468	RGI2000-v7.0-G-08-01655	Kebnekaise	0.12	0.11
G018648E67934N	326	RGI2000-v7.0-G-08-00758	Kebnekaise	0.91	0.76
G018652E68127N	99459	RGI2000-v7.0-G-08-01649	Kebnekaise	0.19	0.16
G018653E68133N	99461	RGI2000-v7.0-G-08-01650	Kebnekaise	0.03	0.02
G018668E68119N	19455	RGI2000-v7.0-G-08-01648	Kebnekaise	0.58	0.49
G018675E68216N	99436	RGI2000-v7.0-G-08-01644	Riksgränsen-Abisko	0.27	0.26
G018681E68101N	19442	RGI2000-v7.0-G-08-01656	Kebnekaise	1.42	1.32
G018686E68081N	1461	RGI2000-v7.0-G-08-01658	Kebnekaise	3.52	3.34
G018686E68114N	99430	RGI2000-v7.0-G-08-01657	Kebnekaise	0.16	0.14
G018691E68212N	99440	RGI2000-v7.0-G-08-01643	Riksgränsen-Abisko	0.23	0.22
G018696E68207N	99453	RGI2000-v7.0-G-08-01642	Riksgränsen-Abisko	0.11	0.10
G018702E68128N	99456	RGI2000-v7.0-G-08-01647	Kebnekaise	0.21	0.17
G018704E68065N	19443	RGI2000-v7.0-G-08-01659	Kebnekaise	0.38	0.32
G018709E68258N	99439	RGI2000-v7.0-G-08-01645	Riksgränsen-Abisko	0.03	0.02
G018718E68205N	99438	RGI2000-v7.0-G-08-01641	Riksgränsen-Abisko	0.13	0.10
G018758E68228N	99445	RGI2000-v7.0-G-08-01640	Riksgränsen-Abisko	0.33	0.32
G018774E68220N	19440	RGI2000-v7.0-G-08-01639	Riksgränsen-Abisko	0.51	0.47
G018801E68214N	99444	RGI2000-v7.0-G-08-01638	Riksgränsen-Abisko	0.29	0.25

GLIMS ID	WGMS ID	RGI v7 ID	Region	area 2017 (km ²)	area 2023 (km ²)
G018827E68208N	19459	RGI2000-v7.0-G-08-01637	Riksgränsen-Abisko	0.52	0.49
G018841E68192N	99441	RGI2000-v7.0-G-08-01646	Riksgränsen-Abisko	0.08	0.08
G018850E68202N	99451	RGI2000-v7.0-G-08-01636	Riksgränsen-Abisko	0.03	0.02
G018871E68197N	99447	RGI2000-v7.0-G-08-01635	Riksgränsen-Abisko	0.15	0.14
G019476E68426N	99469	RGI2000-v7.0-G-08-01634	Riksgränsen-Abisko	0.10	0.08
16.35282907	67.25572605	new1	Sulitelma	1.27	1.11
16.35632177	67.26749088	new2	Sulitelma	1.10	0.97
16.38652436	67.27528294	new3	Sulitelma	2.15	1.92
16.39880325	67.28599531	new4	Sulitelma	0.33	0.28
G016932E67978N	20142	RGI2000-v7.0-G-08-00886	Kaitum	0.31	0.28
17.82919589	67.7058717	new6	Kaitum	0.34	0.26
18.60164441	68.08691795	new7	Kebnekaise	0.06	0.04
18.67906516	68.10799497	new8	Kebnekaise	0.07	0.05

Table S2. Mapping accuracy assessment at the FVP glaciers: Dates of 2018 (exception: Sálajiegna, 2015) Sentinel-2 imagery analysed in comparison with orthoimages from 28 and 29 July 2018

WGMS ID	Glaciername (cf. also Table 1 in the main document)	Date of Sentinel-2 imagery analyzed
326	Tarfalaglacieraeren/Darfálglačiären	08 September 2018
327	Partejekna/Bårddejiegna	31 August 2018
328	Kuototjakkaglacieraeren/Goduglačiären	10 September 2018
329	Kaskasatj SE/Sydöstra Kaskasatjákkaglačiären	08 September 2018
330	Karsojietna/Gorsajökel (or Gorsajiekna)	22 September 2018
331	Passusjietna E/Östra Bossosglaciären	08 September 2018
332	Storglacieraeren/Storglačiären	08 September 2018
333	Isfallsglacieraeren/Isfallsglačiären	02 September 2018
334	Rabots Glaciaer/Rabots glaciär	08 September 2018
335	Stour Raeitaglacieraeren/Reaiddáglaciären	08 September 2018
336	Suottasjekna/Suottasjiegna	08 September 2018
337	Ruotesjekna/Oarjep Ruhtesjiegna	08 September 2018
338	Mikkajekna/Mihkajiegna	08 September 2018
339	Vartasjekna/Várdásjiegna	08 September 2018
340	Ruopsokjekna/Ruopsokjiegna	08 September 2018
341	Salajekna/Sálajiegna	11 September 2015
342	Riukojietna /Rivgojiehkki	26 August 2018
343	Unna Raeitaglacieraeren/Reaiddáglaciären	08 September 2018
344	Hyllglacieraeren/(unnamed)	08 September 2018
345	Passusjietna W/Västra Bossosglaciären	08 September 2018
1461	Marmaglacieraeren/Moarhmmáglaciären	31 August 2018
19448	Kebnepakteglacieraeren/Kebnepakteglaciären	08 September 2018