

About

This dataset is prepared by NVE and made available 28 September 2016. The data contains a selection of ice thickness data of glaciers in Norway. Newer datasets have been thinned in this compilation due to the large number of points. Note that measurements are usally carried out in spring when the glaciers are covered in winter snow. The ice thicknesses includes this snow. When date is unknown, the date 01.01 is used

More information on ice thickness data in Norway are found in *Andreassen, L.M., M. Huss, K. Melvold, H. Elvehøy and S.H. Winsvold. 2015. Ice thickness measurements and volume estimates for glaciers in Norway. Journal of Glaciology 61(228) DOI: 10.3189/2015JoG14J161* and in the references listed in Table 1 in that paper and in the the references listed below on this page.

Data have been collected and processed by			Glaciers
NVE	Norwegian Water Resources and Energy Directorate, Oslo, Norway		Storbreen, Hellstugubreen, Vestre Memurubre, Langfjordjøkelen, Nordre Folgefonna
UiO	University of Oslo, Norway		Gråsubreen, Juvfonne
UiB	University of Bergen, Norway		Nordre Folgefonna
NTNU	Norwegian University of Science and Technology, Gjøvik, Norway		Juvfonne

Citation
When using the data please refer to
NVE, 2016. Ice thickness data. Version 1.1. Norwegian Water Resources and Energy Directorate, Oslo, Norway.
When using data from individual glaciers or ice caps in presentations or publications , please also refer to the original data source which is listed below for each glacier/ice cap

Individual glaciers				
ID	Glacier name	Year of survey	Remark	Referanse/reference
2636	Storbreen	2005, 2006	Measurements in 2005 and 2006.	Andreassen, L.M., M. Huss, K. Melvold, H. Elvehøy and S.H. Winsvold. 2015. Ice thickness measurements and volume estimates for glaciers in Norway. Journal of Glaciology 61(228) DOI: 10.3189/2015JoG14J161
2743	Gråsubreen	2012	Exact date of survey not given	Sørdal, I. 2013. Kartlegging av temperaturlilhøva i Gråsubreen og Juvfonne. Master thesis, Department of Geosciences, University of Oslo, Oslo, Norway. 81 pp + app, 2013.
2768	Hellstugubreen	2011	Hellstugubreen and V Memurubreen measured in same campaign	Andreassen, L.M., M. Huss, K. Melvold, H. Elvehøy and S.H. Winsvold. 2015. Ice thickness measurements and volume estimates for glaciers in Norway. Journal of Glaciology 61(228) DOI: 10.3189/2015JoG14J161
2772	Vestre Memurubre	2011	Hellstugubreen and V Memurubreen measured in same campaign	Andreassen, L.M., M. Huss, K. Melvold, H. Elvehøy and S.H. Winsvold. 2015. Ice thickness measurements and volume estimates for glaciers in Norway. Journal of Glaciology 61(228) DOI: 10.3189/2015JoG14J161
1094	Engabreen	1991, 1992	Measured from helicopter. Primary data is bed elevation = surface - ice thickness	Kennett M., T. Laumann and C. Lund. 1993. Helicopter-borne radioecho sounding of Svartisen, Norway. Ann. Glaciol., 17, 23–26.
			Primary data is bed elevation. Ice thickness is adjusted to surface elevation of 17 September 2011.	
2597	Juvfonne	2009, 2012	Radar measurements on 23 September 2009 and 1 March 2012.	Ødegård, R. S., A. Nesje, K. Isaksen, L.M. Andreassen, T. Eiken, M. Schwikowski and C. Uglietti. 2017. Climate change threatens archeologically significant ice patches: insights into their age, internal structure, mass balance and climate sensitivity. The Cryosphere, 11, 17-32 DOI:10.5194/tc-11-17-2017,
Ice caps				
Code	Glacier name	Year of survey	Remark	Referanse/reference
JOB	Jostedalsbreen	1989	Measurements carried out April 15-17. Southern parts, point data	NVE, unpublished.
NFF	Nordre Folgefonna	2011	Measurements carried out May 2-3 2011.	Bakke, J, T. Laumann, K. Melvold and E. Førre, in prep.: Sub-glacial terrain and future meltwater draining from Nordfonna, Folgefonna western Norway. Førre, E.
LAJ	Langfjordjøkelen	2008	Measurements carried out in March and May. Elevation from 2008 DTM.	Andreassen, L. M., B. Kjølmoen, A. Rassmussen, K. Melvold and Ø. Nordli. 2012. Langfjordjøkelen, a rapidly shrinking glacier in northern Norway. Journal of glaciology. 58(209), 581-593. doi: 10.3189/2012JoG11J014
SFF	Søndre Folgefonna	2004	Measurements carried out on March 31 and April 1. Elevation from 1997-DTM.	
BLÅ	Blåmannsisen	2004	Measurements 21-22 April.	Kjølmoen B. 2006. Hydrologiske undersøkelser ved Maurangervassdraget. NVE Oppdragsrapp., ser. B, 2-2006. NVE unpublished.
HAI	Hardangerjøkulen	2010	Measurements 7-8 May.	NVE unpublished; Andreassen, L.M., M. Huss, K. Melvold, H. Elvehøy and S.H. Winsvold. 2015. Ice thickness measurements and volume estimates for glaciers in Norway. Journal of Glaciology 61(228) DOI: 10.3189/2015JoG14J161
SVV	Vestre Svartisen	2010	Measurements 18-19 March.	
			Measurements 20 May-11 June. Primary data is bed elevation = surface - ice thickness.	Melvold K, Laumann T and Nesje A. 2011. Kupert landskap under Hardangerjøkulen. Geo, 36–37
SVV	Vestre Svartisen	1986		NVE unpublished; Andreassen, L.M., M. Huss, K. Melvold, H. Elvehøy and S.H. Winsvold. 2015. Ice thickness measurements and volume estimates for glaciers in Norway. Journal of Glaciology 61(228) DOI: 10.3189/2015JoG14J161
				Sætrang, A.C. 1988. Kartlegging av istykkelse på Vestre Svartisen 1986. NVE Oppdragsrapp. 3-1988

IDs and glacier complex codes refer to glacier ID in the latest inventory of Norway, Andreassen & Winsvold, 2012.