

Dataset contains results of GPR survey performed with 800 MHz antennas for snow depth calculation. Fieldwork has been done during peak of accumulation, along repeated profiles on several glaciers in the region of Hornsund, Svalbard:

Amundsenisen (2013)

Werenskioldbreen (2013, 2014, 2015)

Nannbreen (2013)

Ariebreen (2014)

Flatbreen (2018)

Storbreen (2018)

Acknowledgements: Research Council of Norway, Arctic Field Grant 2013: Spatial distribution of snow cover and drainage systems on the glaciers on Wedel Jarlsberg Land (RiS ID: 6158); the National Science Centre PRELUDIUM 4: Role of meltwater from snow cover for supplying drainage systems of the Spitsbergen glaciers (2012/07/N/ST10/03784)

References: Laska M., Grabiec M., Ignatiuk D., Budzik T., 2017. Snow deposition patterns on southern Spitsbergen glaciers, Svalbard, in relation to recent meteorological conditions and local topography. *Geografiska Annaler, Series A: Physical Geography*, 99(3): 262–287
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Data available on request

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Data sample:

Point Id	Data	Time [UTC]	Northing	Easting	Ortometric height (EGM96) [m]	TWTT [ns]	depth [m] v=21 cm/ns
1420420_13325000	20.04.2013	13:32:50	545852	8560274	234,9861	11.143916	1.168015
1420420_13325100	20.04.2013	13:32:51	545852	8560274	234,9971	10.596683	1.110448
1420420_13325200	20.04.2013	13:32:52	545852	8560274	234,9942	11.065740	1.159792
1420420_13325300	20.04.2013	13:32:53	545852	8560274	234,9704	10.831211	1.135121
1420420_13325400	20.04.2013	13:32:54	545852,3	8560275	234,9763	11.612973	1.217351
1420420_13325500	20.04.2013	13:32:55	545853,1	8560276	235,0246	11.300268	1.184461
1420420_13325600	20.04.2013	13:32:56	545854,5	8560278	234,9883	11.065740	1.159792
1420420_13325700	20.04.2013	13:32:57	545856	8560281	235,038	10.518506	1.102223
1420420_13325800	20.04.2013	13:32:58	545857,2	8560285	235,0967	10.753035	1.126897
1420420_13325900	20.04.2013	13:32:59	545858,2	8560289	235,1507	11.456621	1.200907
1420420_13330000	20.04.2013	13:33:00	545859,1	8560294	235,1619	10.909388	1.143345
1420420_13330100	20.04.2013	13:33:01	545860	8560298	235,1244	10.205802	1.069320
1420420_13330200	20.04.2013	13:33:02	545860,9	8560303	235,2691	11.534797	1.209129
1420420_13330300	20.04.2013	13:33:03	545861,8	8560307	235,2828	11.612973	1.217351
1420420_13330400	20.04.2013	13:33:04	545862,7	8560311	235,3528	10.909388	1.143345
1420420_13330500	20.04.2013	13:33:05	545863,6	8560315	235,3014	10.674859	1.118672
1420420_13330600	20.04.2013	13:33:06	545864,5	8560320	235,3198	10.518506	1.102223
1420420_13330700	20.04.2013	13:33:07	545865,4	8560324	235,2833	10.440331	1.093997
1420420_13330800	20.04.2013	13:33:08	545866,3	8560330	235,3361	10.831211	1.135121
1420420_13330900	20.04.2013	13:33:09	545867,2	8560335	235,4572	10.362154	1.085772
1420420_13331000	20.04.2013	13:33:10	545868,2	8560340	235,4429	10.283978	1.077546
1420420_13331100	20.04.2013	13:33:11	545869,1	8560346	235,4746	10.440331	1.093997