Supplement of The Cryosphere, 9, 1303–1319, 2015
http://www.the-cryosphere.net/9/1303/2015/
doi:10.5194/tc-9-1303-2015-supplement

The Cryosphere Open Access

Supplement of

A ground temperature map of the North Atlantic permafrost region based on remote sensing and reanalysis data

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Gridded data sets (mean and standard deviation of MAGT of all model realizations; fraction of model realizations with MAGT<0°C) are available at http://dx.doi.org/10.11582/2015.00016

	Borehole Name	Country Borehole ID	Latitude	Longitude	measured GT	modeled GT mean	modeled GT std	difference
1	Alert 1	CA 42	82.500	-62.417	-10.9	-14.4	2.7	3.5
2	Alert 2	CA 43	82.500	-62.417	-15.0	-14.4	2.7	-0.6
3	Alert 3	CA 44	82.500	-62.417	-13.7	-14.4	2.7	0.7
4	Alert 4	CA 45	82.500	-62.417	-13.2	-14.4	2.7	1.2
5	Alert 5	CA 46	82.500	-62.417	-13.7	-14.4	2.7	0.7
6	Bylot Pp	CA 67	73.156	-79.956	-10.8	-12.2	2.7	1.4
7	Pangnirtung	CA 68	65.715	-68.144	-5.2	-5.1	1.9	-0.1
8	Arctic Bay	CA 162	73.033	-85.167	-10.6	-10.8	2.4	0.2
9	Clyde River	CA 163	70.468	-68.594	-7.2	-8.8	2.2	1.6
10	Igloolik	CA 164	69.383	-81.800	-8.5	-8.9	2.3	0.4
11	Pond Inlet	CA 165	72.700	-77.961	-8.5	-10.9	2.3	2.4
12	Resolute Bay	CA 166	74.683	-94.833	-12.3	-11.9	2.4	-0.4
13	Va-1 Vaisjeaggi1*	FN 01	69.821	27.173	-0.2	0.6	0.4	-0.8
14	Hagöngur*	IL 02	64.556	-18.242	0.0	-1.1	1.1	1.1
15	Saudafell*	IL 03	64.884	-15.500	-0.5	0.3	0.9	-0.8
16	Gagnheidi*	IL 04	65.224	-14.260	-0.3	0.3	0.7	-0.6
17	NUK04008-808a*	GL DK US 01	64.167	-51.667	0.2	1.0	0.3	-0.8
18	NUK04008-808b*	GL DK US 02	64.167	-51.667	-0.9	1.0	0.3	-1.9
19	SIS2007-06*	GL DK US 03	66.936	-53.645	-1.1	-0.9	0.9	-0.2
20	SIS2007-06a*	GL DK US 04	66.936	-53.645	-1.1	-0.9	0.9	-0.2
21	ILU2007-01*	GL DK US 05	69.219	-51.098	-3.5	-1.9	0.8	-1.6
22	KAN2005-01*	GL DK US 06	67.006	-50.703	-1.6	-2.5	1.4	0.9
23	Thule	GL US 08	76.529	-68.689	-9.4	-8.0	2.1	-1.4
24	ZC 1 Zackenberg	GL NO 11	74.473	-20.553	-8.1	-6.9	2.5	-1.2
25	La-B-1* Lavkavagge	NO 01	69.249	20.445	0.2	0.4	0.4	-0.2
26	Gu-B-1* Guolasjavi	NO 02	69.354	21.211	-0.1	-0.1	0.4	0.0
27	Is-B-1* Iskoras	NO 03	69.302	25.336	-0.2	0.3	0.4	-0.5
28	Is-B-2* Iskoras PYRN	NO 04	69.300	25.346	-0.3	0.4	0.4	-0.7
29	Ki-B-1* Kistefjellet	NO 05	69.291	18.130	0.9	0.1	0.8	0.8
30	La-B-2 Lavkavagge	NO 06	69.239	20.493	2.0	0.6	0.4	1.4
31	La-B-3 Lavkavagge	NO 07	69.224	20.580	2.0	1.1	0.4	0.9
32	Gu-B-2 Guolasjavi	NO 08	69.366	21.168	1.4	0.0	0.4	1.4
33	Gu-B-3 Guolasjavi	NO 09	69.356	21.061	1.0	0.1	0.4	0.9
34	Ab-B-1 Abojavri	NO 10	69.642	22.194	-0.5	-1.0	1.0	0.5
35	Ab-B-2 Abojavri	NO 11	69.681	22.126	1.2	0.9	0.4	0.3
36	NO-B-1 Nordnes	NO 14	69.556	20.420	0.8	1.4	0.3	-0.6
37	NO-B-2 Nordnes	NO 15	69.556	20.420	0.0	1.4	0.3	-1.4
38	NO-B-3 Nordnes	NO 16	69.557	20.434	-0.9	0.0	0.8	-0.9
39	Jet-BH1* Jetta	NO 19	61.901	9.285	-0.7	-0.7	1.1	0.0
40	Tro-BH1* Tron	NO 20	62.174	10.702	0.0	-1.0	0.9	1.0
41	Juv-BH1* Juvvass	NO 21	61.676	8.365	-1.6	-1.9	1.6	0.3
42	Juv-BH2* Juvvass	NO 22	61.684	8.372	-1.1	-1.3	1.5	0.2
43	Juv-BH3* Juvvass	NO 23	61.697	8.386	-0.3	-0.8	1.4	0.5
44	PACE31* Juvvasshøe	NO 24	61.676	8.368	-2.5	-1.9	1.6	-0.6
45	DB1* Dovrefjell	NO 25	62.250	9.333	-0.1	-0.7	1.2	0.6
46	Da1* Dalsnibba	NO 26	62.048	7.271	0.9	0.2	1.1	0.7
47	Jet-BH3* Jetta	NO 27	61.902	9.234	1.6	-0.5	1.1	2.1
48	Jet-BH2 Jetta	NO 28	61.902	9.234	0.6	-0.5	1.1	1.1
49	Tro-BH2 Tron	NO 29	62.170	10.703	0.9	-1.0	0.9	1.9
50	Tro-BH3 Tron	NO 30	62.151	10.715	1.4	-0.2	0.8	1.6
51	Juv-BH5 Juvvass	NO 32	61.701	8.392	1.3	1.5	0.3	-0.2
52	Juv-BH6 Juvvass	NO 33	61.707	8.403	1.6	2.0	0.3	-0.4
53	PACE 30 Juvvasshoe	NO 34	61.683	8.367	-2.5	-1.9	1.6	-0.6
54	KL-B-1* Kapp Linne	NO 35	78.056	13.635	-3.1	-1.9	0.9	-1.2
55	KL-B-2* Kapp Linne	NO 36	78.054	13.637	-3.2	-1.9	0.7	-1.3
56	KL-B-3* Kapp Linne	NO 37	78.053	13.640	-3.4	-1.9	0.7	-1.5
57	NA-B-1* Ny-Ålesund	NO 38	78.922	11.932	-2.3	-4.0	1.5	1.7
58	GF-B-1* Gruvefjellet	NO 39	78.197	15.632	-5.3	-4.3	1.7	-1.0

59	EN-B-1* Endalen PYRN	NO 40	78.190	15.782	-3.2	-3.9	1.6	0.7
60	AS-B-2* Old Auroral Station PYRN	NO 41	78.201	15.835	-5.6	-3.9	1.6	-1.7
61	Pace* Janssonhaugen1(1099)	NO 44	78.183	16.467	-5.2	-3.9	1.7	-1.3
62	SV-B-2* Svea	NO 45	77.878	16.772	-3.3	-3.1	1.4	-0.2
63	SV-B-5* Svea	NO 46	77.882	16.795	-4.5	-3.7	1.6	-0.8
64	IP-B-1 Innerhytte pingo	NO 49	78.189	16.344	-4.4	-4.0	1.7	-0.4
65	AS-B-1 Old Auroral Station	NO 50	78.201	15.826	-6.0	-3.8	1.6	-2.2
66	SV-1 Svea	NO 54	77.886	16.767	-2.5	-3.1	1.4	0.6
67	SV-4 Svea	NO 55	77.874	16.813	-4.7	-3.1	1.4	-1.6
68	Dh1-CO2-07	NO 56	78.236	15.547	-0.8	-1.4	1.3	0.6
69	Dh2-CO2-07	NO 57	78.236	15.546	0.0	-1.4	0.5	1.4
70	Janssonhaugen PACE 10	NO 59	78.183	16.467	-5.2	-3.9	1.7	-1.3
71	Ny Ålesund	NO GE 60	78.921	11.833	-2.9	-3.9	1.5	1.0
72	Huset rock glacier	NO JP 61	78.209	15.587	-4.0	-4.5	1.7	0.5
73	Bovanenkovo 1	RU 03 02_0001	68.408	70.398	-5.9	-2.2	0.7	-3.7
74	1*	RU 12 03_0008	69.714	66.814	-4.7	-4.4	1.6	-0.3
75	3	RU 13 03_0009	69.716	66.813	-5.4	-4.4	1.6	-1.0
76	17	RU 14 03_0011	69.715	66.818	-5.0	-4.8	1.7	-0.2
77	43	RU 15 03_0013	69.709	66.834	-5.0	-4.8	1.7	-0.2
78	59*	RU 16 03_0016	68.288	54.499	-1.8	-0.7	0.5	-1.1
79	55*	RU 17 03_0017	68.290	54.503	-1.3	-0.7	0.5	-0.6
80	54*	RU 18 03_0018	68.284	54.505	-2.0	-2.5	1.3	0.5
81	61*	RU 19 03_0019	68.287	54.495	0.5	-0.7	0.5	1.2
82	83*	RU 22 03_0022	68.285	54.483	-2.0	-0.6	0.5	-1.4
83	56*	RU 23 03_0023	68.290	54.506	-0.6	-0.7	0.5	0.1
84	65*	RU 24 03_0024	68.287	54.519	-1.3	-0.7	0.5	-0.6
85	ZS-12	RU 97 10_0001	67.411	63.396	-0.2	-0.9	0.6	0.7
86	ZS-16	RU 98 10_0002	67.390	63.414	-0.1	-0.9	0.6	0.8
87	ZS-34	RU 99 10_0003	67.397	63.381	0.3	-0.9	0.6	1.2
88	ZS-83a	RU 100 10_0004	67.396	63.365	-0.1	-0.9	0.6	0.8
89	ZS-115	RU 101 10_0005	67.390	63.327	-0.1	-0.9	0.6	0.8
90	ZS-117	RU 102 10_0006	67.392	63.339	-0.1	-0.9	0.6	0.8
91	ZS-124*	RU 103 10_0007	67.397	63.375	-1.4	-0.9	0.6	-0.5
92	ZS-169	RU 104 10_0008	67.396	63.369	0.1	-0.9	0.6	1.0
93	ZS-227	RU 105 10_0009	67.392	63.401	-1.1	-0.9	0.6	-0.2
94	ZS-247	RU 106 10_0010	67.398	63.368	-0.2	-0.9	0.6	0.7
95	DS-3/VII-74*	RU 107 10_0011	67.396	63.372	-0.5	-0.9	0.6	0.4
96	8C	RU 108 10_0012	67.394	63.366	-0.1	-0.9	0.6	0.8
97	Ya1*	RU 109 10_0013	67.507	64.004	-0.3	-0.8	0.6	0.5
98	Ya3	RU 110 10_0014	67.507	64.003	-0.6	-0.8	0.6	0.2
99	SH-3	RU 111 10_0015	67.388	64.894	-0.1	-1.4	0.6	1.3
100	SH-14	RU 112 10_0016	67.370	64.897	-0.4	-1.6	0.6	1.2
101	SH-15	RU 113 10_0017	67.371	64.891	-1.5	-1.6	0.6	0.1
102	ZS-25	RU 114 10_0018	67.400	63.515	-0.6	-0.9	0.6	0.3
103	VK-1615*	RU 115 10_0019	67.468	63.360	-0.3	-0.9	0.6	0.6
104	VK-1618	RU 116 10_0020	67.446	63.410	0.4	-0.9	0.6	1.3
105	EK-67	RU 117 10_0021	67.383	63.333	0.1	-0.9	0.6	1.0
106	UP-35	RU 118 10_0022	67.405	64.484	-0.7	-1.1	0.7	0.4
107	K-887	RU 119 10_0023	67.549	64.174	1.1	-1.1	0.6	2.2
108	35	RU 120 10_0024	67.962	61.496	-1.8	-1.1	0.6	-0.7
109	37	RU 121 10_0025	67.957	61.505	-1.6	-1.1	0.6	-0.5
110	100	RU 122 10_0026	67.955	61.501	-4.1	-1.1	0.6	-3.0
111	106	RU 123 10_0027	67.962	61.521	1.4	-1.1	0.6	2.5
112	23	RU 124 10_0028	68.256	65.808	0.5	-1.6	0.6	2.1
113	30	RU 125 10_0029	68.257	65.801	0.0	-1.6	0.6	1.6
114	32	RU 126 10_0030	68.256	65.802	0.5	-1.6	0.6	2.1
115	34	RU 127 10_0031	68.262	65.811	-0.1	-1.7	0.6	1.6
116	(R9)	RU 128 10_0032	67.341	62.350	0.5	-0.6	0.6	1.1
117	(R53)	RU 129 10_0033	67.332	62.373	0.1	-0.6	0.6	0.7
118	(R55)	RU 130 10_0034	67.329	62.379	-1.8	-0.6	0.6	-1.2
119	(R57)*	RU 131 10_0035	67.325	62.390	-1.9	-0.6	0.6	-1.3
120	(R64)	RU 132 10_0036	67.347	62.377	-2.2	-0.6	0.6	-1.6
121	(R71)	RU 133 10_0037	67.346	62.337	-2.0	-0.6	0.6	-1.4

122	(R83)	RU 134 10_0038	67.338	62.337	0.0	-0.6	0.6	0.6
123	(R92)*	RU 135 10_0039	67.322	62.390	-2.4	-0.6	0.6	-1.8
124	KT-3b*	RU 136 10_0042	68.280	62.543	-1.3	-1.1	0.6	-0.2
125	KT-4	RU 137 10_0043	68.278	62.531	-0.8	-1.1	0.6	0.3
126	KT-5	RU 138 10_0044	68.264	62.492	-2.4	-1.2	0.6	-1.2
127	KT-8	RU 139 10_0045	68.260	62.479	0.1	-1.2	0.6	1.3
128	KT-16a	RU 140 10_0046	68.246	62.434	-0.1	-1.2	0.6	1.1
129	KT-17	RU 141 10_0047	68.244	62.429	-1.2	-1.2	0.6	0.0
130	KT-18	RU 142 10_0048	68.238	62.410	-2.7	-1.2	0.6	-1.5
131	KT-22	RU 143 10_0049	68.271	62.499	-1.9	-1.2	0.6	-0.7
132	KT-27	RU 144 10_0050	68.294	62.588	-1.1	-1.1	0.6	0.0
133	KT-14	RU 145 10_0051	68.255	62.461	-1.3	-1.2	0.6	-0.1
134	KT-21	RU 146 10_0052	68.274	62.515	-1.8	-1.2	0.6	-0.6
135	Ta-1 PACE/Tarfala*	SE 01	67.917	18.633	-2.4	-3.4	1.7	1.0
136	Ta-2 PACE/Tarfala*	SE 02	67.917	18.633	-2.4	-3.4	1.7	1.0
137	T2 Tavvavuoma*	SE 03	68.462	20.902	-0.3	0.3	0.5	-0.6
138	T10 Tavvavuoma*	SE 04	68.462	20.902	-0.4	0.3	0.5	-0.7
139	KF-1 Kursflaket* PYRN	SE 05	68.351	18.873	-0.2	1.0	0.4	-1.2
140	KF-2 Kursflake * PYRN	SE 06	68.351	18.873	-0.5	1.0	0.4	-1.5
141	SF-1 Storflaket* PYRN	SE 07	68.348	18.977	-0.5	1.3	0.4	-1.8
142	SF-2 Storflaket* PRYN	SE 08	68.347	18.974	-0.3	1.3	0.4	-1.6
143	SF-3 Storflaket* PYRN	SE 10	68.347	18.975	-0.6	1.3	0.4	-1.9