



Technical Report 14-08

Weather observations from Greenland

1958-2013

- Observation data with description

John Cappelen (ed)



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Author(s):

John Cappelen (ed)

Other contributors:

Ellen Vaarby Laursen, Claus Kern-Hansen, Laust Boas, Peter Ridderholm Wang, Bent Vraa
Jørgensen, Lone Seir Carstensen

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Application and publication of data is allowed with proper reference and acknowledgment

Front page:

The new GIWS Greenland Independent Weather Station 4301 Kap Morris Jesup, photographed in 2009. It is the northernmost land based weather station in the world. The flat coastal landscape permits landing with fixed winged aircraft. The station to the right with the Stevenson screen is the old weather station. Photo: DMI Technical Team.



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Abstract

The purpose of this report is to present DMI Greenlandic weather observations 1958-2013 that are accessible to the public. Data series from 88 stations are attached as separated files.

Resumé

Formålet med denne rapport er at præsentere DMI grønlandske vejrobservationer 1958-2013 som er tilgængelige for offentligheden. Dataserier fra 88 stationer er vedhæftede som individuelle filer.



1. Introduction

The Danish Meteorological Institute has previously published a series of similar DMI Technical Reports, the latest Technical Report 11-10 [2], containing a description of Greenlandic weather observations from 1958 to 2010. Large parts of this dataset have primarily been used for research and educational purposes and as background for data analysis as in Greenland climatological standard normal (DMI Technical Report 00-18 [1]).

By publishing DMI Technical Report 11-15 [3] the Greenlandic weather observation datasets in the period 1958-2010 for the first time became accessible to the public.

At the same time a comprehensive quality control was applied to the whole dataset and erroneous data were removed. This quality control was described in DMI Technical Report 11-16 [4]. It must be stressed that the data series in question not at all have been tested for homogeneity nor homogenized.

This new procedure introduced in DMI Technical Reports 11-15 and 11-16 has been followed by updates every year since. The purpose of this report is to update the Greenlandic weather observation datasets with quality controlled 2013 data.

The data series have variable length and characteristics depending on type of station, parameter and many other factors. 88 Greenlandic stations with up to 10 parameters are included in this dataset.

2. Description of the data

2.1 Synoptic stations

Synoptic stations in Greenland have been operated with different degrees of automation over time which has had consequences for the way parameters are observed and for the quality of data series. Furthermore, some stations in remote areas are unmanned, meaning that maintenance and calibration often are done with long intervals (at least a year).

Time stamps

All stations included in the dataset are synoptic stations except five manual precipitation stations, see chapter 2.2. Synoptic stations (or SYNOP-station) all over the world follow a 3-hour interval (00, 03, 06, 09, 12, 15, 18 and 21 hours UTC). Since 1996, Greenland stations (not all from 1996) started with 1-hour observations (every whole hour UTC). Recently some stations also started with observations every 10 minutes, but this report only includes hourly observations. Synoptic stations always follow the same guidelines¹. In Appendix 2 it is indicated, which DMI Greenlandic observations are 3-hourly or 1-hourly.

Parameters

A synoptic station should observe as standard *weather, cloud cover, visibility, snow cover, air temperature, relative humidity, wind, air pressure and precipitation*. The selected parameters in the current DMI Greenlandic dataset are given in table 1.

Station identification

The official station numbers describing synoptic stations in Greenland consist of 5 digits, always starting with 04. However, in the data series the “0” is omitted.

¹ See more at <http://www.wmo.int>



2.2 Manual precipitation stations

There are four manual precipitation stations in Greenland still operating.

Time stamps

The four remaining manual precipitation stations observe 12 hours UTC, covering the previous 24 hours. 34250 Nuuk observed 21 hours UTC. It was closed 1 September 2012.

Parameters

A manual precipitation station only measures *daily accumulated precipitation*. The parameters in the current dataset are given in table 2.

Station identification

The national station numbers describing manual precipitation stations in Greenland consist of 5 digits, always starting with 34.

2.3 Stations and data series

As seen in figure 1 and 2 the stations are scattered across Greenland, although most stations are located in the more populated southern Greenland. Furthermore, most stations are coastal or near-coastal stations and only a few stations are located on the ice cap. The 88 stations and their coordinates are furthermore listed in appendix 1.

The length of the data series varies significantly within and between stations depending on location and type of station. A complete visual overview of all data series can be seen in appendix 2, where all 88 stations are shown with data series length. One cell equals one data year. A data year is one year in one data series for one parameter, so the total number of data years is the length of all data series aggregated. The number of data years for each station is shown below the station name. The overall total number of data years for the whole dataset is shown in the left upper corner of the overview.

Please notice that each cell represents one year of data regardless of the amount of data in this year. Hence data years do not necessarily correspond to a calendar year of data.

The data series are ideally identical to the ones in DMI Technical Report 13-11 [5] plus 2013 data, but when compared to earlier published datasets, minor changes may be found. This can be related to an ongoing quality control of data.

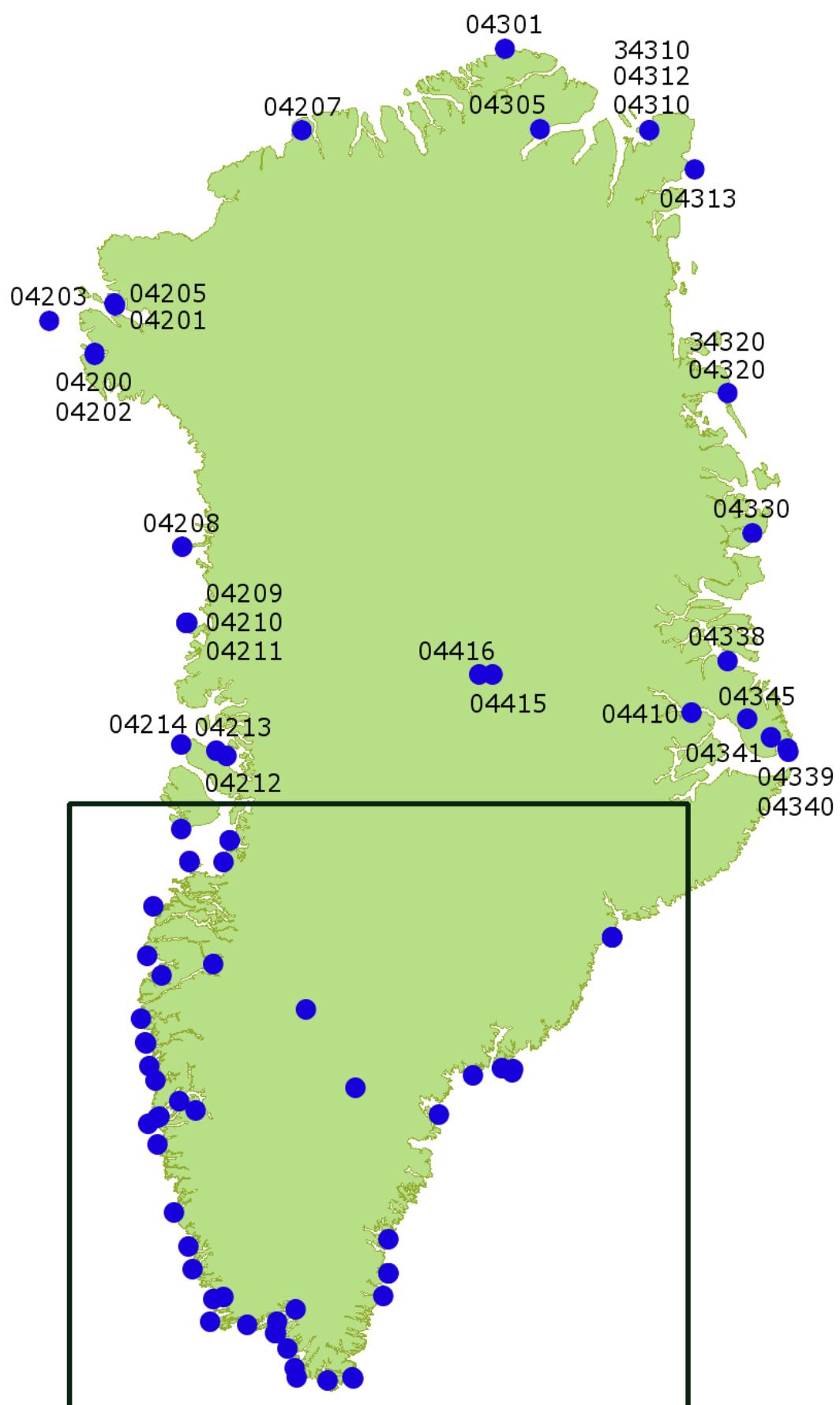


Figure 1: Station positions, Greenland. The section marked is enlarged in figure 2 (graphics M. Scharling).

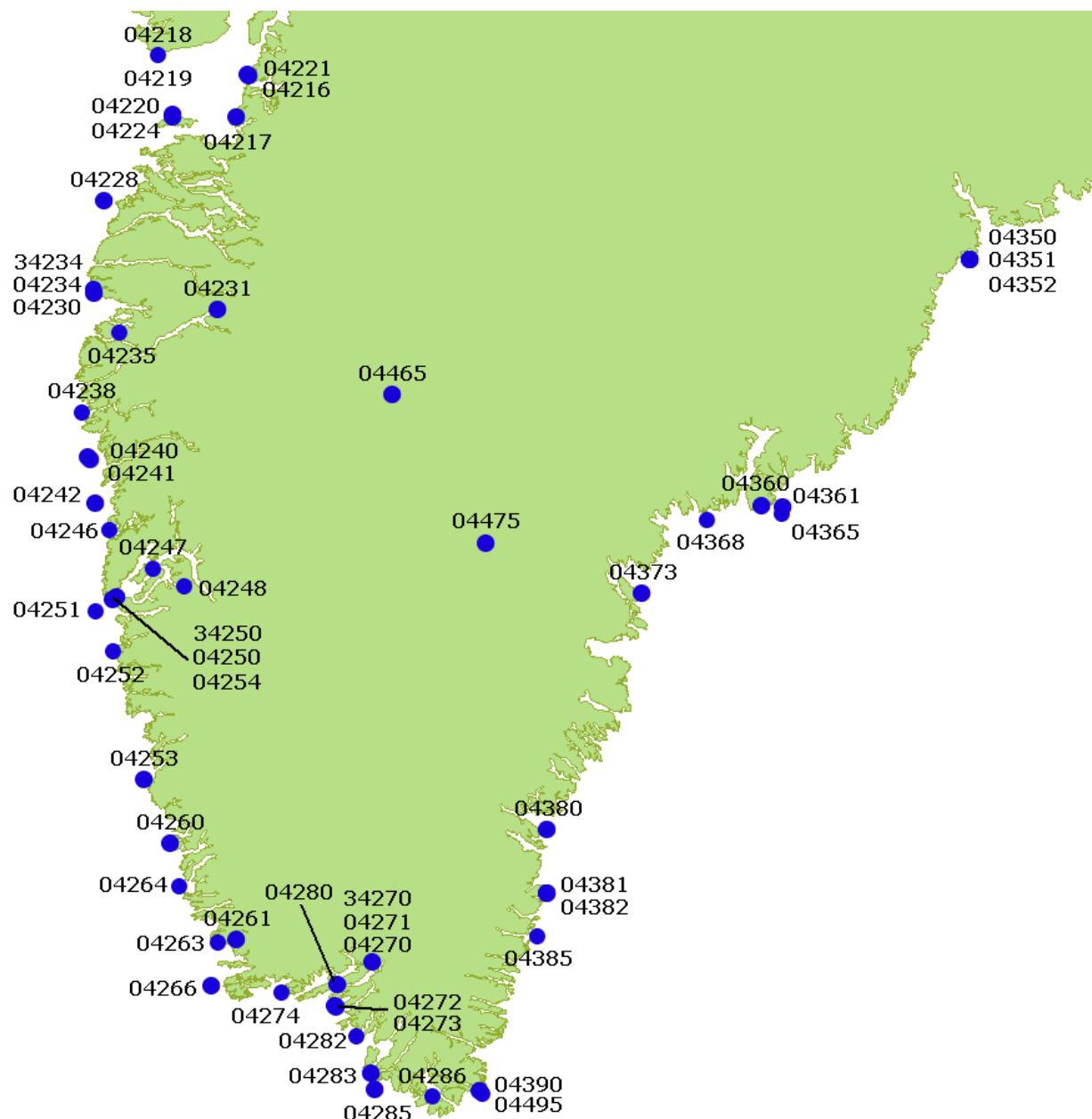


Figure 2: Station positions, Southern Greenland. See fig. 1 for a map of Greenland as a whole (graphics M. Scharling).



3. Data format

The data series are available as tabulator separated txt-files and are found in one ZIP-compressed file *tr14-08.zip* attached to this report. The ZIP-file contains 88 txt-files each representing all data from one station. All time stamps are given in UTC time. Each column in the txt-files has a header, which is described in table 1 and 2.

Headers in synoptic data series-files

Column title	Description
stat_no	4 digit station number, all in the format '4xxx'
Year	Year of observation
Month	Month of observation
Day	Day of observation
hour	Hour of observation (UTC)
dd	Mean wind direction over the 10-minute period preceding the observation. In 1 or 10-degree intervals. 0 applies to calms. 999 applies to variable wind directions
ff	Mean wind speed over the 10-minute period preceding the observation. Observations given in 0.1 m/s
n	Cloud cover in octas (0/8 clear sky, 8/8 overcast). 9 apply to obscured sky, due to fog or heavy snow, and therefore no available observation
pppp	Air pressure at mean sea level in 0.1 hPa
ttt	Dry bulb temperature in 0.1 degrees centigrade
txtxtx	Absolute maximum temperature in 0.1 degrees centigrade. Observation period depends on the interval of SYNOP time intervals, normally 12 hours at 6 and 18 hours UTC
tntntn	Absolute minimum temperature in 0.1 degrees centigrade. Observation period depends on the interval of SYNOP time intervals, normally 12 hours at 6 and 18 hours UTC
rh	Relative humidity in percent
rrr6	6, 12 or 24 hours accumulated precipitation in 0.1 mm. -1 applies to more than 0 mm, but less than 0.1 mm. Normally 6 and 18 hours UTC cover 12 hours; 0 and 12 hours UTC cover 6 hours. If there is only one observation every day it is expected to cover 24 hours
sss	Snow depth in cm. 997 applies to less than 0.5 cm. 998 applies to snow cover not continuous

Table 1. Description of columns in the synoptic data series. Parameters given in 0.1-values (*ff*, *pppp*, *ttt*, *txtxtx*, *tntntn* and *rrr6*) are to be divided with 10 to obtain the actual value. **Remember that in order to obtain i.e. daily acc. precipitation, you cannot just add precipitation using the observations at 0, 6, 12 and 18 hours UTC. The precipitation at 0 and 12 hours UTC cover 6 hours; precipitation at 6 and 18 hours UTC cover 12 hours and therefore the precipitation at 0 and 12 hours UTC are imbedded in the precipitation at 6 and 18 hours UTC.**

Headers in manual precipitation data series-files

Column title	Description
stat_no	5 digit station number, all in the format '34xxx'
Year	Year of observation
Month	Month of observation
Day	Day of observation
hour	Hour of observation (UTC)
rrr24	24 hours accumulated precipitation in 0.1 mm. -1 applies to more than 0 mm, but less than 0.1 mm
tr	Period covered in <i>rrr24</i> in hours. Could be more than 24 hours i.e. 48, 76 hours etc.

Table 2. Description of columns in the manual precipitation data series. Parameters given in 0.1-values (*rrr24*) are to be divided with 10 to obtain the actual value.



References

- [1] Cappelen, J., Jørgensen, B.V., Laursen, E.L., Stannius, L.S., Thomsen, R.S. (2001): The Observed Climate of Greenland, 1958-99 – with Climatological Standard Normals, 1961-90. DMI Technical Report 00-18. Danish Meteorological Institute. Copenhagen.
- [2] Carstensen, L.S., and Jørgensen, B.V. (2011): Weather and Climate Data from Greenland 1958-2010 – Dataset available for research and educational purposes. DMI Technical Report 11-10. Danish Meteorological Institute. Copenhagen.
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- [4] Boas, L. and Wang, P.R. (2011): Quality control of Greenlandic weather and climate data series 1958-2010 – supplement to TR11-15. DMI Technical Report 11-16. Danish Meteorological Institute. Copenhagen.
- [5] Cappelen, J. (ed) (2013): Weather observations from Greenland 1958-2012 - Observation data with description. DMI Technical Report 13-11. Danish Meteorological Institute. Copenhagen.

Previous reports

Previous reports from the Danish Meteorological Institute can be found on:
<http://www.dmi.dk/laer-om/generelt/dmi-publikationer/>



Appendix 1 – Station details

Abbreviations - DMI: Danmarks Meteorologisk Institut (Danish Meteorological Institute). MIT: Mittarfeqarfiiit / Grønlands lufthavne (Greenland Airports) Tidl. GLV: Grønlands Lufthavnsvæsen (Greenland Airport Authority). USAF: US Air Force. GTO: Greenland's Technical Organization

Owner	Time of operation	Latitude N		Longitude W		Elevation
		start	stop	degrees	minute	
04200 Dundas	DUNDAS RADIO	01-01-1961	31-08-1983	76	34	68 48 21
04201 Qaanaaq	DMI	10-08-1995	13-10-2004	77	28	69 13 16
04202 Pituffik	USAF	01-01-1974	27-11-2006	76	32	68 45 77
04203 Kitsisut	DMI	02-06-1980		76	38	73 00 11
04205 Qaanaaq	DMI	02-01-1964	30-06-1980	77	29	69 12 14
04205 Mitt. Qaanaaq	MIT	30-08-2001		77	29	69 23 16
04207 Hall Land	DMI	30-08-1982	06-09-2007	81	41	59 57 105
04208 Kitsissorsuit	DMI	10-09-1981		74	02	57 49 40
04209 Upernivik AWS	DMI	30-08-1984	26-09-1995	72	47	56 10 63
04210 Upernivik	DMI	01-01-1958	28-01-1987	72	47	56 10 63
04210 Upernivik		08-09-1995	16-08-2004	72	47	56 10 120
04211 Mitt. Upernivik	MIT	25-10-2000		72	47	56 08 126
04212 Uummannaq	DMI	01-01-1961	21-08-1989	70	40	52 07 39
04212 Uummannaq Heli.	MIT	23-01-2004	30-06-2006	70	41	52 07 2
04213 Mitt. Qaarsut	DMI	23-11-2000	23-10-2005	70	44	52 42 88
04213 Mitt. Qaarsut		01-02-2006		70	44	52 42 88
04214 Qullitsat	DMI	01-01-1961	31-08-1972	70	03	52 51 2
04214 Nuussuaq		18-09-1982		70	41	54 37 27
04216 Ilulissat	DMI	01-01-1961	31-08-1992	69	13	51 03 39
04217 Qasigiannguit	DMI	01-01-1962	30-06-1980	68	49	51 05 77
04217 Qasigiannguit Heli.	MIT	04-04-2004		68	49	51 10 24
04218 Qeqertarsuaq	DMI	01-01-1962	30-06-1980	69	14	53 31 24
04219 Qeqertarsuaq Heli.	MIT	01-07-2010		69	15	53 32 11
04220 Aasiaat	DMI	01-01-1958		68	42	52 45 43
04221 Mitt. Ilulissat	MIT	15-08-1991		69	14	51 04 29
04224 Mitt. Aasiaat	MIT	02-11-2000		68	43	52 47 23
04228 Kitsisut/Attu	DMI	18-08-1983		67	47	53 58 12
04230 Sisimiut	DMI	01-01-1961	22-06-2001	66	55	53 40 12
04231 Kangerlussuaq	DMI	01-05-1973	31-12-1989	67	00	50 48 50
04231 Kangerlussuaq		01-01-1990		67	01	50 42 50
04234 Mitt. Sisimiut	MIT	28-11-2000		66	57	53 43 10
04235 Dye 1	USAF	13-03-1974	18-09-1989	66	38	52 52 1439
04238 Kangaamiut	DMI	14-09-1966	30-12-1969	65	49	53 19 —
04240 Maniitsoq	DMI	01-01-1961	30-01-1987	65	24	52 52 25
04241 Mitt. Maniitsoq	MIT	06-12-2000		65	25	52 56 28



DMI

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Owner	Time of operation		Latitude N		Longitude W		Elevation
	start	stop	degrees	minute	degrees	minute	m.a.s.
04242 Sioralik	DMI	16-06-1983	65	01	52	33	14
04246 Atammik	DMI	14-02-1966	30-12-1969	64	48	52	09
04247 Qoornoq	DMI	03-01-1966	31-12-1969	64	32	51	03
04248 Kapisillit	DMI	26-01-1966	30-12-1969	64	25	50	18
04250 Nuuk	DMI	01-01-1958	31-08-1991	64	10	51	45
		01-09-1991		64	10	51	45
04251 Kitsissut	DMI	01-01-1961	31-12-1973	64	02	52	05
04252 Kangerluarsoruseq	DMI	02-01-1961	31-08-1973	63	42	51	33
04253 Ukiivik	DMI	20-06-1982		62	34	50	25
04254 Qeqertarsuatsiaat	DMI	17-01-1967	30-12-1969	63	05	50	41
04254 Mitt. Nuuk	MIT	01-11-2000		64	12	51	41
04260 Paamiut	DMI	01-01-1958	21-09-1992	62	00	49	43
04260 Paamiut Heliport	DMI	22-09-1992	06-12-2007	62	00	49	40
04260 Mitt. Paamiut	MIT	07-12-2007		62	01	49	40
04261 Kangilinnguit	DMI	01-01-1961	01-09-1974	61	13	48	07
		01-01-1981	19-09-1997	61	14	48	06
04263 Arsuk	DMI	01-08-1964	30-12-1969	61	11	48	27
04264 Narsalik	DMI	23-11-1966	30-12-1969	61	39	49	22
04266 Nunarsuit	DMI	22-07-1981		60	46	48	27
04270 Mitt. Narsarsuaq	MIT	01-01-1961		61	10	45	25
04271 Narsarsuaq Radisonde	DMI	25-09-2012		61	09	45	26
04272 Qaqortoq	DMI	01-01-1961		60	43	46	03
04273 Qaqortoq Heliport	MIT	17-03-2004		60	43	46	02
04274 Qassimiut	DMI	08-04-1964	30-12-1969	60	48	47	06
04280 Narsaq	DMI	01-01-1958	31-12-1969	60	54	45	58
04280 Narsaq Heliport	MIT	10-03-2005		60	55	46	03
04282 Alluitsup PAA Heliport	MIT	07-08-2006	31-01-2011	60	28	45	35
04283 Nanortalik	DMI	02-01-1961	31-10-1985	60	08	45	13
04283 Nanortalik Heliport	MIT	10-03-2005		60	08	45	14
04285 Angisoq	DMI	01-01-1964	28-12-1973	59	59	45	08
		22-07-1981		59	59	45	08
04286 Narsaq Kujalleq	DMI	01-01-1971	31-12-1973	59	58	44	03
		01-03-1982	31-12-1983	59	58	44	03
04301 Kap Morris Jesup	DMI	16-07-1980		83	39	33	22
04305 Kap Harald Moltke	DMI	24-08-1983	17-07-1991	82	09	29	55
04310 Station Nord	DMI	01-01-1961	09-07-2007	81	36	16	39
04312 Station Nord AWS	DMI	26-07-1985		81	36	16	40
04313 Henrik Krøyer Holme	DMI	01-07-1985		80	39	13	43



DMI

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	Owner	Time of operation		Latitude N		Longitude W		Elevation
		start	stop	degrees	minute	degrees	minute	m.a.s.
04320 Danmarkshavn	DMI	01-01-1958		76	46	18	40	11
04330 Daneborg	DMI	01-01-1958	31-07-1975	74	18	20	13	12
		04-01-1979		74	18	20	13	44
04338 Mestersvig	SLV	01-01-1961	25-10-1985	72	15	23	54	16
04339 Ittoqqortoormiit	DMI	01-11-1980	16-08-2005	70	29	21	57	65
		17-08-2005		70	29	21	57	70
04340 Uunarteq	DMI	01-01-1958	31-10-1980	70	25	21	58	42
		05-09-1985	10-06-1990	70	25	21	58	41
04341 Mitt. Nerlerit Inaat	MIT	26-05-2002		70	45	22	39	13
04345 Jameson Land	DMI	11-02-1985	18-09-1989	71	11	23	37	261
04350 Aputiteeq	DMI	01-01-1958	09-02-1987	67	47	32	18	20
04351 Aputiteeq	DMI	31-01-1987		67	47	32	18	13
04352 Aputiteeq	DMI	18-06-1980	08-04-1982	67	47	32	18	13
04360 Tasiilaq	DMI	01-01-1958	31-03-1982	65	36	37	38	36
		01-04-1982	14-08-2005	65	36	37	37	50
		15-08-2005		65	36	37	37	53
04361 Mitt. Kulusuk	MIT	28-11-2000		65	35	37	09	35
04365 DYE 4	USAF	24-01-1974	20-05-1991	65	31	37	10	329
04368 Orsuiagssuaq	LORAN STATION	13-09-1971	31-12-1973	65	29	38	53	71
04373 Ikermit	DMI	01-11-1986		64	47	40	18	85
04380 Timmiarmiut	DMI/GTO (TELE)	01-01-1958	30-06-1979	62	32	42	08	10
04381 Ikermiuarsuk	DMI	06-12-1979	29-11-1989	61	56	42	04	39
04382 Ikermiuarsuk	DMI	18-06-1980		61	56	42	04	39
04385 Qulleq	LORAN STATION	01-05-1962	31-12-1973	61	32	42	14	157
		01-01-1958	09-10-1980	60	02	43	07	75
04390 Ikerasassuaq	DMI	14-05-1981	30-06-1992	60	03	43	10	26
		01-07-1992		60	03	43	10	88
04410 Renland	DMI	23-09-1987	15-07-1988	71	30	26	32	2320
04415 Summit	DMI	02-01-1991	15-06-1994	72	35	37	38	3250
04416 Summit	DMI	04-11-1997		72	35	38	27	3202
04465 DYE 2	USAF	25-01-1974	18-08-1988	66	29	46	17	2332
04475 DYE 3	USAF	24-01-1974	18-09-1989	65	11	43	50	2652
04495 Ikerasassuaq	DMI	01-10-1980	22-05-1981	60	02	43	07	26
34234 Mitt. Sisimiut	DMI	01-12-2004		66	57	53	43	10
34250 Nuuk	DMI	02-02-1999	01-09-2012	64	11	51	44	54
34270 Narsarsuaq	DMI	22-01-2009		61	10	45	25	26
34310 Station Nord	DMI	01-02-2008		81	36	16	40	36
34320 Danmarkshavn	DMI	01-01-2009		76	46	18	40	11

Appendix 2 – Overview of data series

The figure is a horizontal timeline chart illustrating data availability from 1958 to 2012 across various locations. The x-axis represents time in years, and the y-axis lists locations with their corresponding data years and station codes.

Legend:

- Normal period 1961-1990**: Yellow bar
- Years with data 1991-2000**: Light blue bar
- Years with data 2001-2004**: Dark blue bar
- Years with data 2005-2012**: Grey bar

Locations and Data Years:

- 04200**: Data years 14003 (1958-1984)
- Dundas**: Data years 203 (1958-1984)
- 04201**: Data years 70 (1958-1984)
- 04202**: Data years 223 (1958-1984)
- 04203**: Data years 163 (1958-1984)
- Mitt. Qaanaaq**: Data years 255 (1958-1984)
- 04207**: Data years 109 (1958-1984)
- Hall Land**: Data years 109 (1958-1984)
- 04208**: Data years 161 (1958-1984)
- Kitsissor-suit**: Data years 161 (1958-1984)
- 04209**: Data years 53 (1958-1984)
- Upernivik AWS**: Data years 300 (1958-1984)
- 04210**: Data years 300 (1958-1984)











Total number of data years 14903 **<<< Normal period 1961-1990 >>>** **Years with data** **Years with data (hourly observations)**

Station	Call Sign	Data Years	Periods
04254	Mitt. Nuuk	107	dd n pppp ttt tctctc intint rb rrr6 sss
04260	Mitt. Paamiut	514	dd tt n pppp ttt tctctc intint rb rrr6 sss
04261	Kangilinn-guit	225	dd tt n pppp ttt tctctc intint rb rrr6 sss
04263	Arsuk	39	dd tt n pppp ttt tctctc intint rb rrr6 sss
04264	Narsalik	20	dd tt n pppp ttt tctctc intint rb rrr6 sss
04266	Nunarsuit	160	dd tt n pppp ttt tctctc intint rb rrr6 sss
04270	Mitt. Narsarsuaq	512	dd tt n pppp ttt tctctc intint rb rrr6 sss
04271	Narsarsuaq Radiosonde	16	dd tt n pppp ttt tctctc intint rb rrr6 sss
04272	Qaqortoq	487	dd tt n pppp ttt tctctc intint rb rrr6 sss







Legend:

- Years with data (hourly observations):**
 - Yellow: 1961-1990
 - Light Blue: 1991-2000
 - Dark Blue: 2001-2005
 - Green: 2006-2007
 - Grey: 2008-2011
- Location Codes:**
 - 04345: Jameson Land
 - 04350: Aputiteeq
 - 04351: Aputiteeq
 - 04352: Aputiteeq
 - 04360: Tasiliq
 - 04361: Mitt. Kulusuk
 - 04365: DYE 4
 - 04368: Orsuiaq-sunq
 - 04373: Ilkermit
- Data years:**
 - 25: Jameson Land (04345)
 - 264: Aputiteeq (04350)
 - 131: Aputiteeq (04351)
 - 10: Aputiteeq (04352)
 - 552: Tasiliq (04360)
 - 95: Mitt. Kulusuk (04361)
 - 144: DYE 4 (04365)
 - 18: Orsuiaq-sunq (04368)
 - 135: Ilkermit (04373)



The chart displays data availability across three time periods: the Normal period (1961-1990), the 1991-2000 period, and the 2001-2011 period. The legend indicates the following color coding:

- Yellow:** Normal period (1961-1990)
- Grey:** 1991-2000
- Blue:** 2001-2011
- Diagonal lines:** Years with data (hourly observations)

Legend (Top Right):

Symbol	Location
dd	04380
ff	04381
pppp	Ikermiuarsuk
ttt	Ikerminarsuk
xxxx	04385
rrrr	Quleq
sss	04390
000	Ikerasas-suaq
000	04410
rrr	Renland
dd	04415
ff	Summit
pppp	04416
ttt	Summit
xxxx	04465
rrrr	DYE 2
sss	

Y-axis labels (left to right): Total number of data years, 14903; 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013.

