

Air temperature (daily mean), Tarfala Research Station 1965-2011

SND-ID: ecds0098-1. **Version:** 1.0. **DOI:** <https://doi.org/10.5879/gp51-a110>

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ECDS0098-001-V1.0.txt (480.46 KB)

Associated documentation

Fig2_TempTimeSerie.jpg (207.27 KB)

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ecds0098-1-1.0.zip (~687.73 KB)

Citation

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Description

Daily mean air temperature from Tarfala Research Station 1965-2011 based on automatic weather recordings. From 1965 to 1989 air temperatures were measured with platinum resistance thermometers (Pt100) placed in a Stevenson type radiation screen and recorded every minute by chart recorders. In 1988 a new automatic weather station was installed. Both systems were operated in parallel until 1998 to allow direct comparison. Since 1 July, 1989, the data from the new automatic station have been used in the Tarfala temperature series. In July 1995, the Swedish Meteorological and Hydrological Institute (SMHI) installed an automatic weather station approximately 20 m east of the Tarfala weather station as part of their national network. Data from SMHI and those from additional sensors at the Tarfala station were used to fill occasional gaps in the data series. When simultaneous measurements were not available gaps were filled using downscaled ERA40 data of the grid cell containing Tarfala.

Data contains personal data

No

Time period(s) investigated

1965-01-01 – 2011-12-31

Data format / data structure

[Numeric](#)

Geographic spread

Geographic description: Tarfala

Responsible department/unit

Department of Physical Geography

Research area

[Earth and related environmental sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Climate research](#) (Standard för svensk indelning av forskningsämnen 2011)

[Climatology / meteorology / atmosphere](#) (INSPIRE topic categories)

Keywords

[Atmospheric temperature](#), [Surface temperature](#), [Air temperature](#)

Publications

Ulf Jonsell, Regine Hock & Martial Duguay (2013) Recent air and ground temperature increases at Tarfala Research Station, Sweden, *Polar Research*, 32:1, 19807, DOI: 10.3402/polar.v32i0.19807

DOI: <https://doi.org/10.3402/polar.v32i0.19807>

Polygon (Lon/Lat)

18.611, 67.912

18.611, 67.911

18.612, 67.911

18.612, 67.912

18.611, 67.912

Accessibility level

Access to data through SND

Data are freely accessible

Use of data

[Things to consider when using data shared through SND](#)

License

[CC BY 4.0](#)

Versions

Version 1.0. 2018-10-23

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Contact for questions about the data

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[DDI 3.3](#)

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