

Daily temperature values (average, minimum, maximum)

Spatial scale / resolution: 1 km
Spatial coverage The Netherlands
Temporal range: 1961 – current time (daily updates of data)

Data source input data:

<https://data.knmi.nl/datasets/Tg1/5> and <ftp://data.knmi.nl/download/Tg1/5/>

Data format input data: NETCDF 4 (*.nc)

Data format output data: GeoTiff (*.tif)

Data storage output data: ..\Source_data\KNMI\...

Files (input => output):

INTER_OPER_R__TG1____L3__20180101T000000_20180102T000000_0005.nc => 20180101.tif

INTER_OPER_R__TG1____L3__20180102T000000_20180103T000000_0005.nc => 20180102.tif

Etc.

Data

This dataset involves grid files of interpolated daily average, minimum and maximum temperature values for the Netherlands, based on 33-35 KNMI automatic observation stations. The interpolation method used is Inverse Distance Weighted interpolation (IDW) with a power parameter of 2.0. A block size of 20 km and search radius of 110 km are used. By using a block, the interpolation method is not exact, the interpolated value at a point can deviate from the measured value. The number of observations used for the interpolation varies from 15 (in 1961), to 26 (1991), 37 (1994) and 24 (2012). Version 5 has an improved extent. This data was published in May 2015, and the last change was done in December 2017. The data is updated daily.

Data was downloaded and converted to tif format and linked to PC6 centroids for the following time period: 1 October 2017 – 30 June 2018.

This data can be viewed at:

https://data.knmi.nl/wms-preview/viewer/?service=https%3A%2F%2Fdata.knmi.nl%2Fwms%2Fcgi-bin%2Fwms.cgi%3Fsource%3D%2FTg1%2F5%2F0006%2F2020%2F03%2F08%2FINTER_OPER_R__TG1____L3__20200308T000000_20200309T000000_0006.nc&zoomtolayer=1&layer=prediction

For more information on the interpolation of temperature measurements (in Dutch), see

http://bibliotheek.knmi.nl/stageverslagen/stageverslag_Salet.pdf

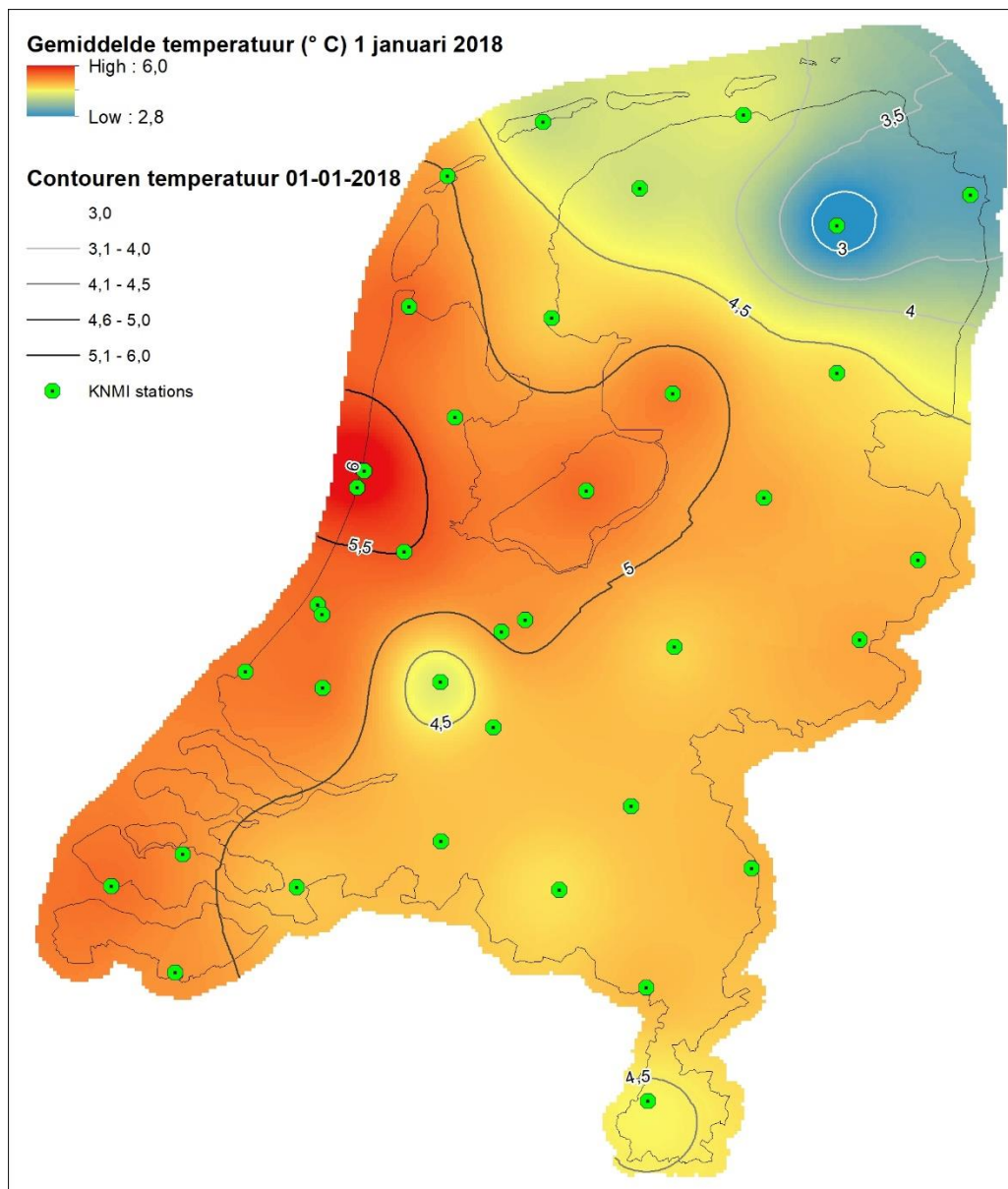
Variables

This grid dataset contains the interpolated daily average temperature values for the Netherlands.

Source

The data is provided by KNMI (Koninklijk Nederlands Meteorologisch Instituut) DataCentrum, Ministry of Infrastructure and Water Management.

Map example of interpolated average temperature data (1 January 2018)



Contact information

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Terms and conditions

This data is freely available.

List of references

KNMI. Temperatuur – geïnterpoleerde dagelijkse gemiddelde temperatuur in Nederland. Version 5.

Download location:

<ftp://data.knmi.nl/download/Tg1/5/>