

Links to Data Sources

Here are useful links to climate related data sources

NASA Earth Observatory and NOAA

[Solar insolation](#)

[Outgoing longwave radiation \(OLR\)](#)

[Cloud Fraction](#)

[NASA Cloud Product](#): Description of the tool.

[AIRS data](#): Various data of the atmosphere

NOAA: [Global Historical Climatology Network](#) (GHCN)

[Berkeley Earth Open Source Data base](#) (BEST)

[NOAA Sea surface temperatures](#) (ERSST V5)

Arctic and Antarctic climate and sea ice

[Arctic Sea Ice Extend](#) for Arctic and Antarctic

[Arctic Sea Ice Extend from Climate Reanalyzer](#)

[Polar Portal: Greenland](#)

[Polar portal, sea ice extent and thickness](#)

Temperature measurements

[Temperature.global](#): Online measurement and overview of global temperature

Climate Reanalyzer – [Daily anomalies of global temperature etc.](#)

DWD (Deutscher Wetterdienst): [Historical Temperature measurements in Germany \(1781 until present\)](#)

[Climate4you](#): A collection of many different climate relevant data.

Creating plots from various sources: [WoodForTrees](#)

[KNMI Climate Explorer](#) (initialized for maximum Temperatures in Siberia)

[MSU & AMSU Time Series Trend Browse Tool](#)

[Nino SST Indices](#)

[Global Cryosphere Watch](#)

Australian Buro of Meteorology, [Online Climate Data](#)

Atmosphere Observations

[CAMS – Copernicus Atmosphere Monitoring Service](#)

Natural Disasters

[Global Deaths from Natural Disasters 1900-2019](#)

Global Carbon budget

[Statistics of worldwide carbon emissions](#)

[Global carbon project](#)

Spectroscopic tools

[MODTRAN](#) Interactive Tool for OLR IR spectra and Downwelling IR spectra

[HITRAN etc](#): Spectroscopic Data base.

The German energy transition

[Agora-Energiewende](#): Useful information of hourly current energy mix in Germany including corresponding electricity trading prices.

[Energy Chart](#): Actual and planned distribution of energy

generation in Germany.

[Wind maps](#)

[Daily Wind power usage in Europe](#)