

DATASET DESCRIPTION

Monthly lightning climatology for central Europe

Version: Version 1.0

Publication date: 2025

Cite data set as: Monthly lightning climatology for central Europe, Version Version 1.0

Dataset-ID: urn:wmo:md:de-dwd-cdc:1c266171-e0fe-446e-b88c-43a508d900ad

Dataset-URL: https://opendata.dwd.de/climate_environment/CDC/grids_europe/monthly/lightning

ABSTRACT

The dataset contains a lightning climatology, in detail, monthly values of current intensity (kAmperes) and the number of lightning strikes on a 0.05x0.05 degree grid. The data is in netCDF format and is based on the ground-based LINET measurements from the Nowcasting AG. Additional information about the measuring network, the data set and its generation can be found in the publication. <https://www.preprints.org/manuscript/202502.1749/v2>

POINT OF CONTACT

Deutscher Wetterdienst
CDC - Vertrieb Klima und Umwelt
Frankfurter Straße 135
63067 Offenbach
Tel: + 49 (0) 69 8062-4400
Fax: + 49 (0) 69 8062-4499
E-Mail: klima.vertrieb@dwd.de

DATASET DESCRIPTION

Statistical processing	monthly sum
Temporal coverage	2007-01-01 -- ...
Temporal resolution	1 month
Spatial coverage	Germany
Spatial resolution	0.05 Breiten-Grad x 0.05 Längen-Grad
Projection	- (http://www.opengis.net/def:EPSG:4326)
Format description	Lightning climatology for Central Europe . : The dataset is delivered in netcdf format. The header thus defines the content of the file. Using Panoply, the content of the header or the data can be displayed https://www.giss.nasa.gov/tools/panoply/ . Under Linux, you can also use ncdump File.nc

DATA ORIGIN

The source and processing of the data is described in detail in <https://www.preprints.org/manuscript/202502.1749/v2>

RESOURCE MAINTENANCE

monthly data, will be prolonged every month

LITERATURE

[Müller, R.; Döpp, S. Presentation and Analysis of a Lightning Climatology for a Region in Central Europe with Focus on the Mean Normalised Amperage. Preprints 2025, 2025021749. <https://doi.org/10.20944/preprints202502.1749.v2>](https://doi.org/10.20944/preprints202502.1749.v2)

COPYRIGHT

[The Creative Commons BY 4.0 - Licence 'CC BY 4.0' apply.](https://creativecommons.org/licenses/by/4.0/)

REVISION HISTORY

This document is maintained by Deutscher Wetterdienst, FE 23 - Verfahrensentwicklung Fernerkundung, last edited at 2025-10-02.