

# Welcome to Met.3D

Met.3D is an **open-source visualisation tool** for **interactive, three-dimensional visualisation** of **numerical ensemble weather predictions** and similar **gridded atmospheric datasets**. The tool is implemented in [C++](#) and [OpenGL 4](#) and runs on standard commodity hardware. Its only "special" requirement is an OpenGL 4.3 capable graphics card.

## Main webpage

This is the Met.3D documentation. Please also visit the [Met.3D main webpage!](#)

## Open-source

Met.3D is open-source, and [available on Gitlab](#). The software is licensed under the [GNU General Public License, Version 3](#).

Met.3D currently runs under Linux. It has originally been designed for weather forecasting during atmospheric research field campaigns, however, is not restricted to this application. Besides being used as a visualisation tool, Met.3D is intended to serve as a framework to implement and evaluate new 3D and ensemble visualisation techniques for the atmospheric sciences.

Met.3D is currently developed within the *Visual Data Analysis Group* at the [Regional Computing Center](#), Universität Hamburg, Germany. We hope you find the tool useful for your work, too. Please let us know about your experiences.

The documentation for Met.3D is organised into the following sections:

- [User documentation](#)
- [Developer documentation](#)



## Attention

The documentation you are reading is **work in progress**. We are adding bits and pieces whenever we find time. If you don't find the information you are looking for, please [contact us](#). If you like to contribute to the documentation, please let us know as well!



## Reference publication

The Met.3D **reference publication** has been published in [Geoscientific Model Development](#) and is [available online](#):

Rautenhaus, M., Kern, M., Schäfler, A., and Westermann, R.: "Three-dimensional visualization of ensemble weather forecasts – Part 1: The visualization tool Met.3D (version 1.0)", *Geosci. Model Dev.*, 8, 2329-2353, doi:10.5194/gmd-8-2329-2015, 2015.



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