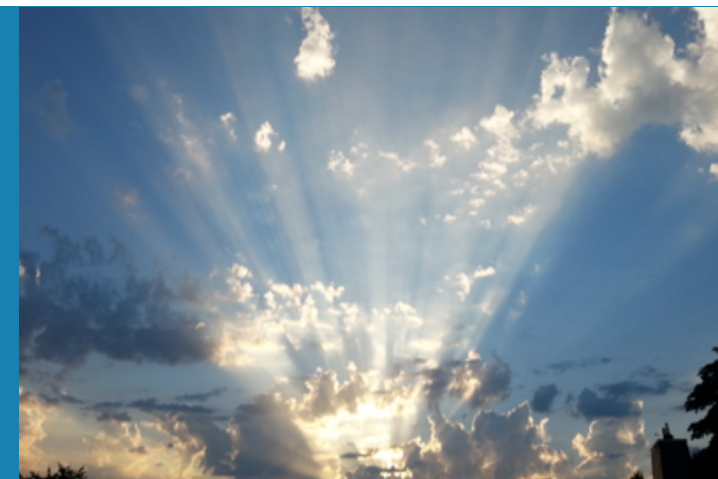




AtMoDat

www.atmodat.de

The ATMODAT Standard enhances the FAIRness of Atmospheric Model Data



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EMS lightning talk

Online session OSA3.1

EMS2021-298 (11:20–11:25)



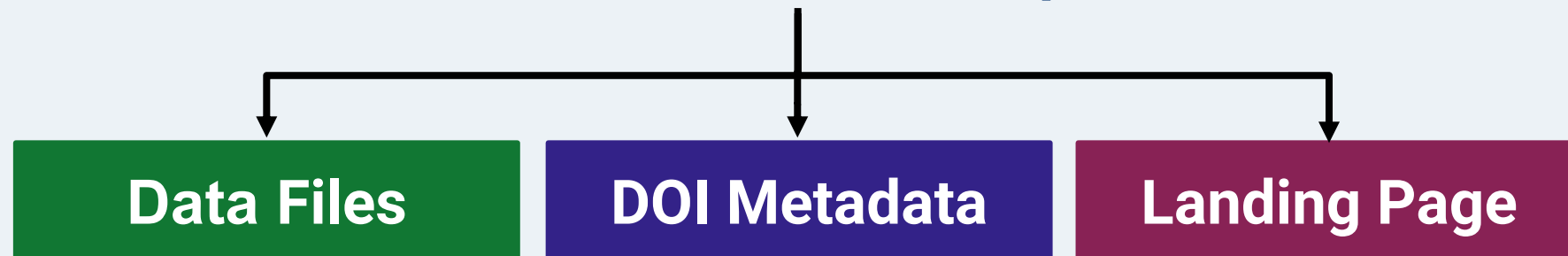
<https://doi.org/10.5194/ems2021-298>



ATMODAT Standard

- The ATMODAT standard (Ganske et al. 2021*) is a guideline that
- provides **precise recommendations** to improve the **FAIRness** of atmospheric model data published **in repositories**.
 - assumes a **data publication** with a **DataCite DOI**.
 - defines the data format as **NetCDF**, adherence to the **CF-convention** and **mandatory, recommended and optional** metadata.
 - calls for **structured landing** and usage of **controlled vocabularies**.
 - contains **checklists** for **data producers** and **data curators**.

ATMODAT standardisation: requirements for



*https://doi.org/10.35095/WDCC/atmodat_standard_en_v3_0

ATMODAT Standard Compliance Checker

- performs checks if NetCDF data are compliant with the ATMODAT standard.
- Python3 library, available at https://github.com/AtMoDat/atmodat_data_checker
- integrates CF checker ([Climate and Forecasts \(CF\) Metadata Convention](#))
- easy to install, to use, and to be adapted.
- the output of the checker is machine-readable, plus option for short summary output.
- the output specifies what needs to be changed to achieve compliance, segregated by mandatory, recommended and optional items.

Run the checker on a single file:

```
run_checks.py -f myfile.nc
```

Run the checker on all files in a directory:

```
run_checks.py -p mydirectory/
```

This is a summary of a result from the atmodat data checker (v1.0):

Total scored mandatory points: 7/7
Total scored recommended points: 40/42
Total scored optional points: 17/18
Total number CF checker errors: 0



launch binder https://mybinder.org/v2/gh/AtMoDat/atmodat_data_checker/HEAD?filepath=notebooks