OPEN SCIENCE FACTSHEET NO. 7

based on the 62nd online seminar: The IPCC FAIR Guidelines from the perspective of the IPCC Data Distribution Centre (DDC) (Slides)

IPCC DATA DISTRIBUTION CENTRE (DDC) – IPCC-DATA.ORG

- **Purpose**: Archiving and providing transparency, traceability, and stability of data and scenarios; supporting the IPCC Working Groups and their authors as well as DDC data (re-)users.
- Overseen by the IPCC Task Group on Data Support for Climate Change Assessments (TG-Data).
- Established in 1997.
- Currently jointly managed by:
  - [Metadataworks](https://www.metadataworks.org), on behalf of the UK Department for Business, Energy and Industrial Strategy: Climatologies, final data, web pages, joint catalog
  - [German Climate Computing Center (DKRZ)](https://www.dkrz.de): Reference Data Archive for climate, model output
  - [Center for International Earth Science Information Network (CIESIN)](https://www.ciesin.org) at Columbia University: Socioeconomic data and scenarios
  - [University of Cantabria (CSIC)](https://www.ucm.es): Interactive Atlas
  - The DDC Memorandum of Understanding is the basis for the joint operation of the IPCC DDC.

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC)

- United Nations body for assessing the science related to climate change with 195 Member countries.
- The [IPCC ARs](https://www.ipcc.ch) provide policymakers with regular scientific assessments on climate change, its implications and potential future risks. They also propose potential adaptation and mitigation options.
- IPCC reports are neutral, policy-relevant but not policy-prescriptive, and are based on the following principles:
  - No research is conducted.
  - Aim for scientific consensus.
  - Contributions are voluntary and unpaid.
IPCC FAIR GUIDELINES FOR AR6

- The IPCC FAIR Guidelines were introduced for AR6 to enhance the transparency of IPCC outputs.
- They combine an established transparent scientific review process based on peer-reviewed literature with FAIR data and CoreTrustSeal repository standards.

The guidelines aim to:

- **Enhance the Traceability** of the core statements of the report through documentation of the figure and table creation process. This information is published as part of the supplementary materials and enables a basic reproducibility of report figures; References between report, input and final data connect the different digital information provided for AR6.

- **Give Credit** for CMIP6 and other input data in compliance with CC BY license requirements, and provide DOIs for created scripts and final data (underpinning figures and tables).

- **Secure Preservation** of curated data with enriched metadata and detailed documentation for the long-term. The preservation of digital objects and core infrastructure components enables a long-term traceability of political decisions based on IPCC AR6 as part of a FAIR Digital Objects framework.

OUR SPEAKER DR. MARTINA STOCKHAUSE

IPCC Data Distribution Centre, Additional contributors:

- Anna Pirani, Martin Juckes,
- José Gutierrez,
- Robert Matthews,
- Charlotte Pascoe,
- Robert Chen,
- Xiaoshi Xing,
- David Huard
- and many others

Mail | ORCID iD | Web

- Stockhause, M. et al., 2015. CMIP6 Data Citation and Long-Term Archival (WIP white paper). https://doi.org/10.5281/zenodo.35178