Use Case 2: ERA5 hourly data on single levels from 1940 to present

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This page illustrates the procedure to cite the ERA5 hourly data on single levels from 1940 to present dataset and provide appropriate attribution. This dataset is generated under the framework of the Copernicus Climate Change Service (C3S). For such dataset, the Licence to use Copernicus products only applies.

Use Case: A user has downloaded ERA5 hourly data on single levels from 1940 to present data from the Climate Data Store to calculate some results that will be presented in an article. The user did not download the data to redistribute it. The user downloaded data from the Climate Data Store on 7 March 2023.

Step 1 - Check applicable licences	**Step 2 - Cite the CDS Catalogue entry (traceable source of data)**	**Step 3 - Provide clear and visible attribution to the Copernicus programme and attribute each data product used (to accredit the creators of the data)**
• Check the licence(s) Licence to use Copernicus Products only • Acknowledge as indicated in Clause 5 e.g. in the context of this use case, Clause 5.1.2 and 5.1.3 apply and the data was used in 2020. In this case, a typical acknowledgement may be as follows: The results contain modified Copernicus Climate Change Service information 2020. Neither the European Commission nor ECMWF is responsible for any use that may be made of the Copernicus information or data it contains.	In this case, use the citation provided in the CDS Catalogue entry under "References > Citation and attribution": Copernicus Climate Change Service (2023): ERA5 hourly data on single levels from 1940 to present. Copernicus Climate Change Service (C3S) Climate Data Store (CDS), DOI: 10.24381/cds.adbb2d47 (Accessed on 07-MAR-2023)	In this case, use the attribution information provided in the CDS Catalogue entry under "References > Citation and attribution": **Copernicus programme:** Already covered in Step 1. **Products:** Hersbach, H., Bell, B., Berrisford, P., Biavati, G., Horányi, A., Muñoz Sabater, J., Nicolas, J., Peubey, C., Radu, R., Rozum, I., Schepers, D., Simmons, A., Soci, C., Dee, D., Thépaut, J-N. (2018): ERA5 hourly data on single levels from 1940 to present. Copernicus Climate Change Service (C3S) Climate Data Store (CDS), DOI: 10.24381/cds.adbb2d47 , (Accessed on 07-MAR-2023)

- Acknowledgment section of the article may contain the following:

Hersbach, H. et al., (2018) was downloaded from the Copernicus Climate Change Service (2023).

The results contain modified Copernicus Climate Change Service information 2020. Neither the European Commission nor ECMWF is responsible for any use that may be made of the Copernicus information or data it contains.

- Bibliography may contain the following:

Copernicus Climate Change Service (2023): ERA5 hourly data on single levels from 1940 to present. Copernicus Climate Change Service (C3S) Climate Data Store (CDS), DOI: 10.24381/cds.adbb2d47 (Accessed on 07-MAR-2023)

Hersbach, H., Bell, B., Berrisford, P., Biavati, G., Horányi, A., Muñoz Sabater, J., Nicolas, J., Peubey, C., Radu, R., Rozum, I., Schepers, D., Simmons, A., Soci, C., Dee, D., Thépaut, J-N. (2018): ERA5 hourly data on single levels from 1940 to present. Copernicus Climate Change Service (C3S) Climate Data Store (CDS), DOI: 10.24381/cds.adbb2d47 , (Accessed on 07-MAR-2023)

- Throughout the content of the article, the dataset used maybe referred to as:

Hersbach, H. et al., (2018)

Related articles

- C3S User Support Journey (Copernicus Knowledge Base)

- Convective and large-scale precipitation (Copernicus Knowledge Base)
- Guidance document on applying the Maturity Matrix as part of the Evaluation and Quality Control (Copernicus Knowledge Base)