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The Copernicus Climate Data Store

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The Climate Data Store (CDS) is the Copernicus climate change service (C3S) solution to global data delivery and visualisation. Driven by the principles of simplicity and consistency, the CDS provides free access to over 100 datasets for a global interdisciplinary and intersectoral audience of over 100,000 users. Furthermore, the CDS offers online processing facilities and a suite of over 30 applications which provide a simple-to-use interface to the complex datasets and generate new knowledge from the data.

We present the design principles and system architecture of the CDS and demonstrate the ease of access to the wealth of data available through the CDS and the simplicity of visualising the data using the online processing facilities. Additionally, we provide insight on the lessons learnt which informed our view for future developments to meet the growing needs of a growing user community.

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