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Copernicus Climate Change Service: ECVs for Surface and Earth Radiation Budget

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Copernicus Climate Change Service (C3S) is one of six thematic information services provided by the Copernicus Earth Observation Programme of the European Union. The German Weather Service, Deutscher Wetterdienst (DWD), has been contracted to provide high-quality satellite-based Climate Data Records (CDRs) and corresponding Interim Climate Data Records (ICDRs) to Copernicus for five Essential Climate Variables: Precipitation, Surface Radiation Budget, Water Vapour, Cloud Properties and Earth Radiation Budget. Here, we present the data products that are brokered and generated for two ECVs: Earth Radiation Budget (ERB) and Surface Radiation Budget (SRB).

These data products are available through the Climate Data Store (CDS). The CDS is designed as a 'one stop shop' for users to discover and process the data. Extensive documentation and quality assessment are given for every data product, along with interactive tutorials, that provide an overview of the ECVs. Climate Data Store contains the Toolbox, a catalogue of software tools that has wide possibilities for processing and visualizing the data. Each data product includes a set of use cases, practical examples on various applications of the data products. The users can look through and modify the code used in these use cases.