

Bjerknes Climate Data Centre

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The Bjerknes Climate Data Centre (BCDC) of the Bjerknes Centre for Climate Research was initiated in 2014 and is hosted at the University of Bergen, Norway. BCDC has the following aims:

1. To serve the data obtained, and data syntheses (SOCAT, GLODAP, DATED) assembled in international collaboration with researchers from the Bjerknes Centre for Climate Research cluster. All data from the different disciplines (e.g. geology, oceanography, biology, model output community) are made Findable, Accessible, Interoperable and Re-usable (FAIR) and made publicly available by the BCDC. It will, however, be open for all interested scientists independent of institution.

2. To provide an online access portal to climate data of all kinds. Currently is in contact with the worldwide data access network established by the International Council for Science called World Data System (ICSU WDS, former ICSU World Data Centre System, <http://www.icsu-wds.org/>) to become the first partner in Norway. BCDC follows the idea of having a common globally interoperable distributed data system within the climate (change) community. BCDC also cooperates with data centres that are not part of the ICSU-WDS, (prominent examples are NMD and NORSTORE), in order to use these for storage, and to provide access to their data holdings.

3. Data management services for high impact research infrastructures. BCDC hosts data management services for the marine part of the European Research ICOS (Integrated Carbon Observation System Ocean Thematic Centre (ICOS OTC)), initiates a Global Data Assembly Centre for Marine Biogeochemistry with US colleagues and contributes to Copernicus Marine Environmental Monitoring Services. In addition BCDC has its main expertise in the field of marine biogeochemistry and heavily supports the Surface Ocean CO₂ Atlas (SOCAT) and the Global Ocean Data Analysis Project (GLODAP). BCDC also supports international bodies like IOC UNESCO in addressing data management service towards the Sustainable Development Goal 14.3 (minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels) by the the United Nations

The Bjerknes Climate Data Centre was acknowledged to be one of the leading and most functional data centres in its field by the Research Council of Norway. This poster will highlight the international interconnection, functionality and services provided.