



Climate Data from the BADC

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The British Atmospheric Data Centre (BADC) archive provides many datasets which are of use for climate related studies. They include data from many NERC projects (e.g. RAPID/RAPID-WATCH, QUEST, FREE) as well as national projects (e.g. UKCP09, LINK) and major international projects such as CMIP5, CMIP3 and IPCC-DDC. For CMIP5, the BADC are playing a crucial role in areas such as managing the output data (over 1 Petabyte in volume) and developing the infrastructure to manage this volume of data efficiently. The BADC are also implementing quality control checks to ensure that the model data are made available to researchers, as quickly as possible.

In addition, there are also climate datasets from the Met Office available (e.g. model data from HadCM3, HadRM3 HadGEM, gridded datasets and direct observations) and the Climatic Research Unit at UEA.

Various on-line interfaces have been developed by the BADC to ensure that the data are as accessible as possible to the user community, and a dedicated helpdesk is operated to support users.

The BADC play a leading role in improving international data standards, in particular by supporting the development and use of the Climate and Forecasting (CF) conventions, and is an active participant in METAFOR, IS-ENES and MIRP. Data citation, currently being implemented at the BADC, is a way to provide users with a dataset which can be directly referenced in publications, with due acknowledgement given to dataset creators.

These developments are all intended to make it easier for the research community to access reliable, high quality datasets and utilise their full potential.