

BRITISH ATMOSPHERIC DATA CENTRE

Introduction

The British Atmospheric Data Centre (BADC) is one of the centres and facilities in the NERC Centres for Atmospheric Sciences (NCAS), and is the NERC Designated Data Centre for the Atmospheric Sciences. The BADC provides the atmospheric research community with sophisticated access to data, tools, documentation and support.

The extensive BADC archive allows access to around 100 datasets and is a convenient central point of reference for UK researchers needing access to atmospheric data and meteorological products.

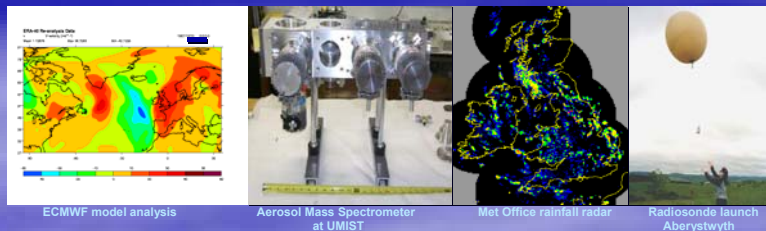
Datasets



Datasets are generally produced by NERC-funded projects or are third party datasets that are required by a large section of the UK atmospheric research community.

They contain chemical species concentrations, dynamical variables, raw measurements and model output on local to global scales. The datasets include observations by satellite, aircraft, balloon-borne and ground-based instruments and results from calculations based on data assimilation techniques.

Datasets held include: Data from NERC funded facilities and programmes, Met Office observations, analyses & research data, data from Envisat and other satellites, and data from other data centres.



Services

The BADC offers the following services to support data users:

• Collaborative workspaces

Convenient, secure spaces to upload and exchange results and ideas with other, geographically distant co-researchers. Particularly useful for collaboration before and during field campaigns.

Atmospheric Trajectories

Web: <http://badc.nerc.ac.uk/trajectory>

Produced at the BADC /osaha/trajectory/trajectory/sep02/10203700512.nc

Sample plot of multiple parcels

Data Source

- ECMWF archive (2.5 degree pressure)
- ECMWF 1.125 sp archive
- ECMWF 1.125 degree forecast/outrout
- ERA-40 archive (2.5 degree pressure)

Time information

Start Date (yyymmdd)

Start Time (hour)

Length of run (days)

Trajectory Direction Forward Backward

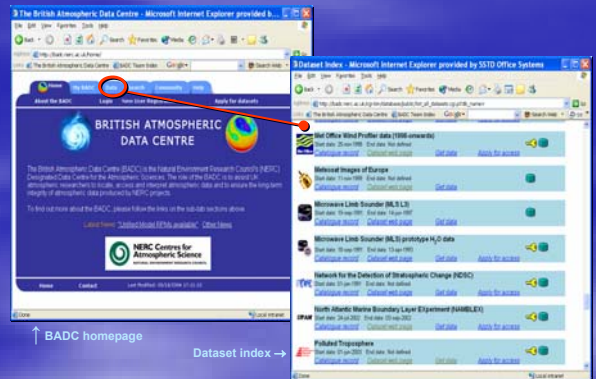
Output Frequency (hour) 1 0.5

Data Archive

All BADC data are available to users through World Wide Web (<http://badc.nerc.ac.uk/>) and FTP interfaces. Software is provided to assist in the manipulation of the data and extensive information is provided on the data collection procedures, formats, data quality, contact names and references to journal papers.

Most datasets are available to the academic community world-wide and a significant portion of the data archived at the BADC is publicly available.

To implement best practices the BADC is collaborating with the DCC on changing archiving procedures. As part of this process we are aiming to conform to the OAIS archive reference model.



• Trajectory Service

Use Met Office or ECMWF analysis fields to trace the history/destination of an air parcel.

• Conference List

A comprehensive list of upcoming conferences, meetings and courses relevant to atmospheric scientists.

• Poster Heaven

Let your conference posters enjoy the afterlife in "poster heaven"!