



DKRZ

DEUTSCHES
KLIMARECHENZENTRUM

BALTEX WG on Data Management

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BALTEX-I Data Centres

BALTEX-I
Data Centres
stopped
operations in
2006
(BSSG-20)

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BALTEX

The Baltic Sea Experiment

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BALTEX Data Centres

Data relevant to BALTEX cover a wide range of disciplines, data types, periods, geographical extent, frequency and horizontal resolution. Also, the BALTEX region includes more than 10 countries with different structures regarding the collection, distribution and archiving of relevant information. Therefore, it is necessary to have a well-defined data management structure in order to facilitate data preparation and exchange within BALTEX.

As the practical requirements for meteorological, hydrological and oceanographic data are rather different, it has been decided to establish BALTEX Data Centers at different national agencies. From 1994 until 2002, the [DWD](#) in Offenbach, Germany, hosted the [BALTEX Meteorological Data Center](#) which is now administered by the [World Data Center for Climate \(WDCC\)](#) at the Max-Planck-Institute for Meteorology in Hamburg. The outstanding task, among others, of this Data Center is to make precipitation data from all existing stations in the BALTEX region available. [SMHI](#) in Norrköping, Sweden, hosts the [BALTEX Hydrological Data Center](#) with the special duty, among others, to make the runoff data from all available runoff stations in the BALTEX region accessible. SMHI also operates the [BALTEX Radar Data Center](#) which is now regularly producing and archiving weather radar data and products from the BALTRAD radar network in northern Europe. In 2002/2003, SMHI has also confirmed to establish and maintain the [Oceanographic Data Center for BALTEX](#).

The [BALTEX Secretariat \(IBS\)](#) will closely co-operate with the BALTEX Data Centers in order to co-ordinate aspects of data storage, the data exchange policy within the BALTEX research community and the contents of data bases.

It is expected that the exchange of data will frequently take place using the internet system directly between the originator and the user of the data. The Data Centers

Related links

- [General Data Exchange Policy](#)
More...
- [BALTEX Phase II Data Policy Document](#)
More...
- [BALTEX Data Centres](#)
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- [Information for Data users](#)
More...
- [BALTEX Working Group on Data Management](#)
More...

Fertig

BALTEX-I Data Centres

- Data centres are (mostly) still accessible, but outdated
- Less than 5 accesses per year to meteorological data for the last years, comparable situation for the other two data centres (hydrology and oceanography), exception is radar with the BALTRAD project
- Current data access procedure on BALTEX web pages was motivated to open access to centralised BALTEX-I data centres
- But BALTEX data requests are for active data from research institutes and national services which all have their own, individual access policies
- Suggestion is to stop the BALTEX-I data access procedure on web-server and leave the access control to the hosting data centres

BALTEX-II Data System

A list of BALTEX-II relevant data archives can be obtained from the web-server



The screenshot shows the BALTEX website homepage. At the top left is the BALTEX logo, a circular emblem with a map of the Baltic Sea region, a red lightning bolt, and blue water droplets, with the text 'Baltic Sea Experiment' and 'BALTEX GEWEX 2007'. To the right of the logo, the text 'BALTEX The Baltic Sea Experiment' is displayed in large white letters on a dark blue background. In the top right corner, there are links for 'Home | Contact | Sitemap'. Below the header is a navigation menu with links: 'Home / News', 'Background', 'BALTEX Phase I', 'BALTEX Phase II', 'Projects', 'Data Management', 'Publications', 'Organisation', 'International BALTEX Secretariat', 'Events', 'Links', 'Internal', 'How to participate', and 'BACC'. The main content area features a section titled 'BALTEX Data Bases and other accessible Data Bases relevant for BALTEX research', which states that the page will compile a comprehensive list of accessible meteorological, climatological, hydrological, oceanographical, and environmental data from the entire Baltic Sea basin. Below this is a section titled 'The BALTEX Data Centres' with a bulleted list of centers: 'BALTEX Meteorological Data Center (BMDC) (see also below at WDCC)', 'BALTEX Hydrological Data Center (BHDC)', 'BALTEX Radar Data Center (BRDC)', and 'Oceanographic Data Center for BALTEX (ODCB) at SMHI'. Another section titled 'Meteorological and climatological data' includes a sub-section for 'World Data Center for Climate (WDCC)', which provides web-browser access to climate model data. A final bulleted list at the bottom lists: 'BALTEX (Baltex Meteorological Data Centre (BMDC); Status 31.03.2003)' and 'CLM regional climate model runs (The climate version of the local model (CLM) of the DWD was used to simulate the regional climate of the...'. On the right side of the page, there is a 'Related links' section with three items: 'General Data Exchange Policy More...', 'BALTEX Phase II Data Policy Document More...', and 'BALTEX Data Centres More...'. Below that is 'Information for Data users More...' and 'BALTEX Working Group on Data Management More...'. The page is displayed in a browser window with a scrollbar on the right.

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BALTEX Data Bases and other accessible Data Bases relevant for BALTEX research

This page will compile a comprehensive list of accessible meteorological, climatological, hydrological, oceanographical and environmental data from the entire Baltic Sea basin. Some data are easily accessible through the linked web sites, others require a registration procedure. The list is just being set up and constantly growing, and any suggestions for new links are welcome (send to baltex@gkss.de).

The BALTEX Data Centres

- [BALTEX Meteorological Data Center \(BMDC\)](#) (see also below at WDCC)
- [BALTEX Hydrological Data Center \(BHDC\)](#)
- [BALTEX Radar Data Center \(BRDC\)](#)
- [Oceanographic Data Center for BALTEX \(ODCB\)](#) at SMHI

Meteorological and climatological data

World Data Center for Climate (WDCC)

The WDCC provides web-browser access mainly to climate model data. The "Browse Experiment" option provides tree-like access to global and regional model data. Data of potential BALTEX interest can be obtained directly from the following WDCC server:

- [BALTEX \(Baltex Meteorological Data Centre \(BMDC\)\)](#); Status 31.03.2003)
- [CLM regional climate model runs](#) (The climate version of the local model (CLM) of the DWD was used to simulate the regional climate of the...)

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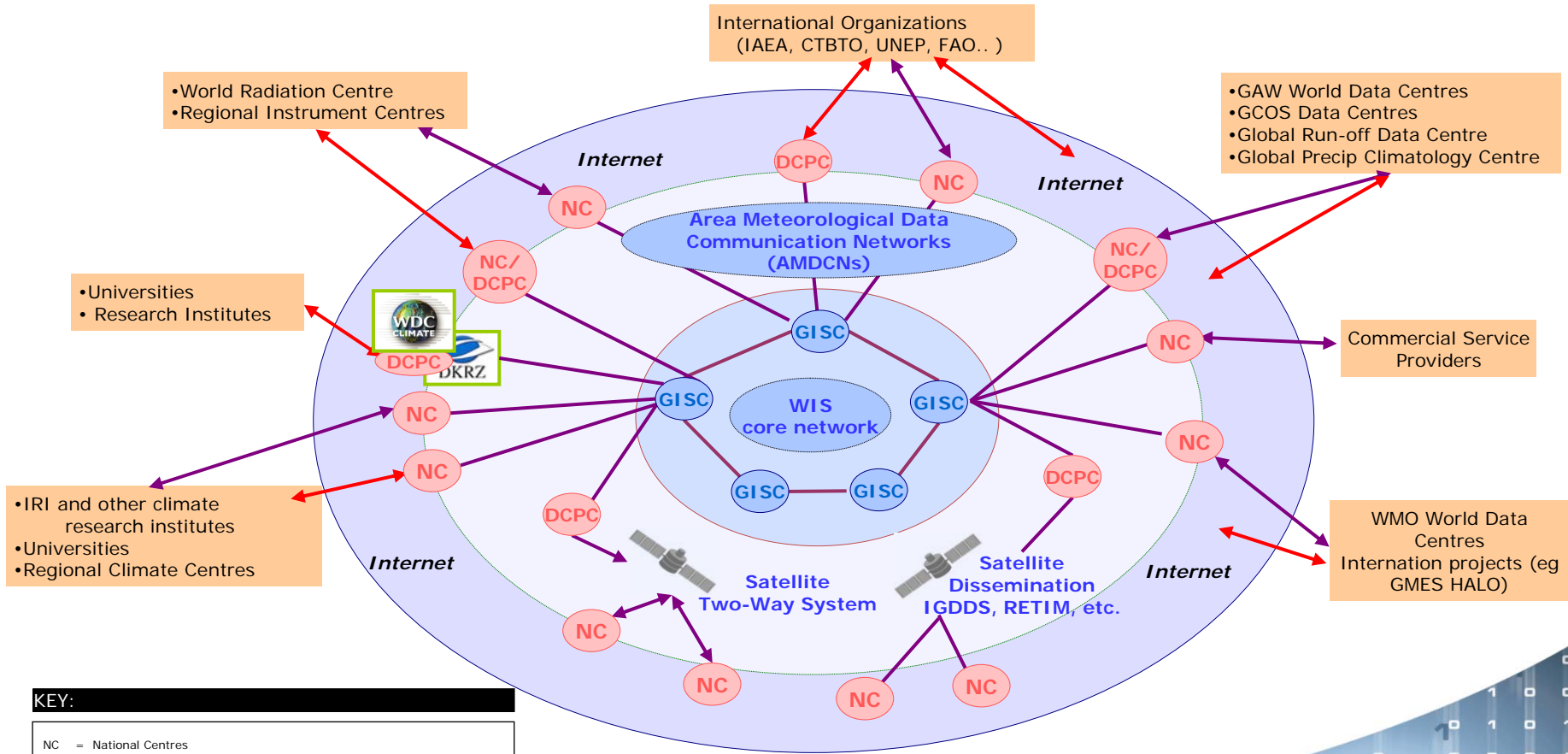
BALTEX-II Data System

- The originally planned BALTEX-II data network failed mainly due to missing funding opportunities
- Access to research data archives is possible but even not optimal because of different data access policies, security infrastructures and data portals
- Access to data from national (meteorological) services is more complicated because data are organised at the national level and not for the BALTIC Sea Region
- This situation has not been improved during BALTEX-II
- New chance for improvement could be the WMO-WIS

WIS - WMO Information System

GISC - Global Information System Centres (12..14)

DCPC - Data Collection and Production Centres (>100)



KEY:

- NC = National Centres
- GISC = Global Information System Centres
- DCPC = Data Collection or Production Centres

- Real-time "push"
- On-demand "pull"

GISC/DCPC Status

2 GISCs EUROPE

- ▶ Germany: Pre-operational prototype available at DWD
- ▶ In Cooperation with Meteo-France & UK MetOffice as 1 VirtualGISC
→ Contract for SW-Development placed
- ▶ Russia

45 DCPC EUROPE

- ▶ Cooperation ECMWF, EUMETSAT, met.no (meteorological data)
- ▶ GPCP (Global Precipitation and Climate Centre, Offenbach) , GRDC (Global Run-off Data Centre, Koblenz), WDCC (World Data Center Climate, Hamburg), ... many more centres are planned

12+ GISCs WORLD

- ▶ China, Japan, Brazil → Preoperational Prototypes available
- ▶ India, Saudi-Arabia, Australia, Iran, USA, Russia, South Africa, Morocco, Korea: → Planning or nominated

WIS + BALTEX: unique, (free) and easy access to data except for operational products