

# BKG Data Center

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## Abstract

This report summarizes the activities and background information of the IVS Data Center from the establishment of IVS to the end of 2000. Included are information about functions, structure, technical equipment, and staff members of the BKG Data Center.

## 1. BKG Data Center Functions

The BKG (Federal Agency for Cartography and Geodesy) Data Center is one of the three IVS Primary Data Centers. It archives all VLBI related data of IVS components and provides public access for the community. The BKG Data Center is connected to the OPAR and CDDIS Data Centers by mirroring the OPAR file stock 6 times per day. The following sketch shows the principle of mirroring:

BKG <—> OPAR <—> CDDIS

IVS components can choose one of these Data Centers to put their data into the IVS network by using its incoming area which each of them has at its disposal. These areas are protected and the users need to obtain username and password to get access.

An incoming script is watching this incoming area and checking the syntax of the files sent by IVS components every hour. If it is o.k. the script moves the files into the datacenter directories; otherwise the files will be sent to a badfile area. Furthermore the incoming script informs the responsible staff at Data Center by sending e-mails about its activities.

For public access to the BKG Data Center users can do it through FTP:

```
ftp.leipzig.ifag.de
uid: anonymous
pw: e-mail address
cd vlbi
```

respectively WWW:

```
http://www.leipzig.ifag.de/VLBI
```

Structure of BKG IVS Data Center:

```
vlbi/           : root directory
ivs-iers/       : VLBI products for IERS
ivs-pilot2000/  : directory for special investigations
ivscontrol/     : controlfiles for data center
ivsdata/        : VLBI observation files
ivsdocuments/   : IVS documents
ivsproducts/    : analysis products
                 (earth orientation, terrestrial and celestial frames)
```

Aside from this IVS related data bank another data bank for analysis purposes exists. It contains about 7400 X-Band databases and 7300 superfiles.

## **2. Technical Equipment**

HP 9000/D280/1 (HP UX 10.20 operating system)  
disc space: 190 GBytes (Raid system)  
internet rate: 2 MBit/sec  
backup: tape library

## **3. Staff Members**

Volkmar Thorandt (coordination, data analysis, vt@leipzig.ifag.de)  
Gerald Engelhardt (data analysis, engelhardt@leipzig.ifag.de)  
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