# **BKG** Data Center

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#### Abstract

This report summarizes the activities and background information of the IVS Data Center for the year 2009. 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 GSFC CDDIS Data Centers by mirroring the OPAR and the CDDIS file stocks several times per day. The following sketch shows the principle of mirroring:

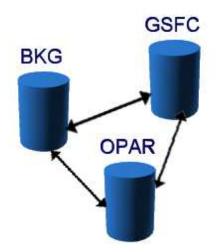


Figure 1. Principle of mirroring

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. The BKG incoming area is protected, and users need to obtain username and password to get access. (Please contact the Data Center staff.)

An incoming script is watching the incoming area and checking the syntax of the files sent by IVS components. If it is o.k., the script moves the files into the data center directories. Otherwise the files will be sent to a badfile area. Furthermore, the incoming script informs the responsible staff at the Data Center by sending e-mails about its activities. The incoming script is part of the technological unit which is responsible for managing the IVS and the Operational Data Center, and for carrying out the first analysis steps in an automatic manner. All activities are monitored to guarantee data consistency and to control all analysis steps from data arrival to delivering of analysis products to IVS.

Public access to the BKG Data Center is available through FTP and HTTP:

FTP: ftp://ivs.bkg.bund.de/pub/vlbi/

HTTP: http://ivs.bkg.bund.de/vlbi/

Structure of BKG IVS Data Center:

vlbi/	:	root directory
ivs-special/	:	special CRF investigations
ivscontrol/	:	controlfiles for the data center
ivsdata/	:	VLBI observation files
ivsdocuments/	:	IVS documents
ivs-iers/	:	old IERS solutions
ivsproducts/	:	analysis products
crf/	:	celestial frames
trf/	:	terrestrial frames
eops/	:	earth orientation (24h sessions)
eopi/	:	earth orientation (Intensive sessions)
daily_sinex/	:	daily sinex files (24h sessions)
<pre>int_sinex/</pre>	:	daily sinex files (Intensive sessions)
trop/	:	troposphere

## 2. Technical Equipment

DELL Server (SUSE Linux Enterprise 9.5 operating system) disk space: 500 GBytes (Raid system) backup: automatic tape library

## 3. Staff Members

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