

Paris Observatory (OPAR) Data Center

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Abstract This report summarizes the OPAR Data Center activities in 2015–2016. Included is information about functions, architecture, status, future plans, and staff members of OPAR Data Center.

1 General Information

The Paris Observatory (OPAR) has provided a Data Center for the International VLBI Service for Geodesy and Astrometry (IVS) since 1999. The OPAR as well as CDDIS and BKG is one of the three IVS Primary Data Centers. Their activities are done in close collaboration for collecting files (data and analysis files), and making them available to the community as soon as they are submitted. The three primary Data Centers have a common protocol and each of them:

- has the same directory structure (with the same control file),
- has the same script,
- is able to receive all IVS files (auxiliary, database, products, documents),
- mirrors the other ones every three hours,
- gives free FTP access to the files.

This protocol gives the IVS community a transparent access to a Data Center through the same directory, and a permanent access to files in case of a Data Center breakdown.

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To be able to submit a file to a Data Center, Operational and Analysis Centers have to be registered by the IVS Coordinating Center. The file names have to conform to the name conventions. A script checks the file and puts it in the right directory. The script undergoes permanent improvement and takes into account the IVS components' requests.

2 Current Status

The OPAR Data Center is currently operated on a PC Server (PowerEdge 2800 - Xeron 3.0 GHz) located at Paris Observatory, and running the Fedora Linux operating system. To make all IVS products available online, the disk storage capacity was significantly increased and the server is equipped now with RAID 3 TB disk extensible up to 4.7 TB. The OPAR server is accessible 24 hours per day, seven days per week through Internet connection with 2 Mbit/s rate. Users can get the IVS products by using the FTP protocol. Access to this server is free for users.

FTP access:

```
ivsopar.obspm.fr
username : anonymous
password : your e-mail
cd vlbi (IVS directory)
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3 Staff Members

Christophe Barache is in charge of the maintenance of the Data Center. For hardware issues, he is helped by Teddy Carlucci, who is one of the IT managers of

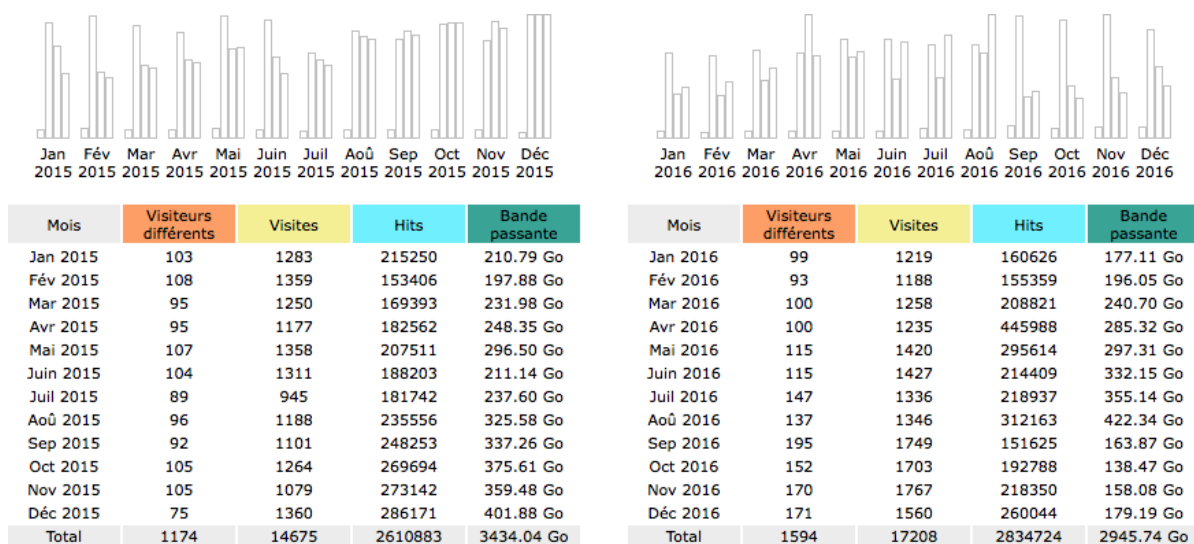


Fig. 1 OPAR Data Center access statistics for (left) 2015 and (right) 2016.

the SYRTE department. Sébastien Lambert is in charge of the IVS activities at the SYRTE department including also the scientific management of the IVS Analysis Center.

To request more information about the OPAR Data Center please contact ivs.opa@obspm.fr

4 Activities during the Past Years

The FTP access statistics for the last two years are shown in Figure 1.

5 Future Plans

The OPAR Data Center will be installed on a new server in March 2017 running Linux Debian 8.6.