

Name of research institute or organization:

**Relaisgemeinschaft HB9F Bern**

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Title of project:

Operation of a 70 cm amateur Baken transmitter  
Operation of a 1296 MHz repeater  
Study of "HF-Ausbreitungsbedingungen"

Project leader and team:

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Project description:

The "Relaisgemeinschaft HB9F Bern" has been operating two amateur radio stations at the Sphinx observatory for more than twenty years.

Our 70cm beacon has been working incessantly since 1980 at 432.984 MHz and had never to be repaired.



This picture taken on September 17, 2001, at the top of the Sphinx Observatory shows the 70cm corner-reflector (below) and the 23cm hybrid-quad antenna (above).

The 23cm repeater is operating at Tx 1258.900 MHz and Rx 1293.900 MHz. It has been working more or less satisfactorily during the last two years. During summer we had to improve the stability of the frequency of the transmitter and of the receiver. We also replaced the collinear omnidirectional antenna by a hybrid-quad. The study of

propagation conditions around 1300 MHz also shows an extremely weather depending behaviour.

Lately we created a new homepage at [www.relais-hb9f.ch](http://www.relais-hb9f.ch) where the technical specifications and the current operational states of our stations are published.

The "Relaisgemeinschaft HB9F Bern" expresses its thanks to the "Foundation High Altitude Research Stations Jungfraujoch and Gornergrat" for the hospitality of many years.

Key words

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Beacon, Repeater

Collaborating partners/networks:

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USKA; Union Schweizerischer Kurzwellenamateur

Scientific publications and public outreach 2001:

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Address:

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