ACCESS

FIS GP can be reached online via

www.fis-geophysik.de

The access to FIS GP requires a login. This is made either as guest or as personally registered user. If logged in as guest, sensitive information (in particular measured values) of proprietary data objects are hidden.

Registration is done online via the button "Register as new user" on the login page. The assignment of access rights is based on the user's institution (to be chosen from a list during registration). Basically the following applies:

> Owners of external data stored in FIS GP have full access to their data.

> Members of other institutions may apply for access rights during registration.
> This can be achieved by selecting the list entry "Other Institutions"; the desired rights have to be specified in the form fields "Desired access rights" and "Reason for rights". In this case the assignment of rights is regulated individually, if necessary in consultation with the relevant owner of external data. Free provision of data in possession of the LIAG is restricted to a purely scientific, non-commercial use by interested institutions.

After successful registration an access password will be sent by email.

The use of FIS GP is free of charge within the framework of assigned rights.

PROVIDING OWN DATA

The LIAG is interested in collecting geophysical data owned by other institutions. If you are interested to add own data to the FIS GP (property rights remain with you), do not hesitate to contact us.

PROJECT TEAM
Project leader

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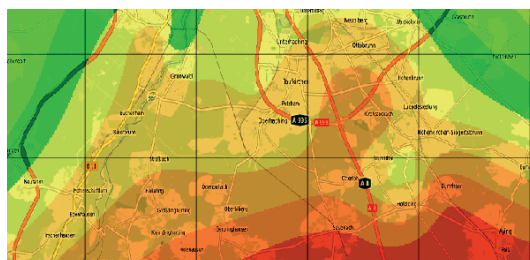D-30655 Hannover

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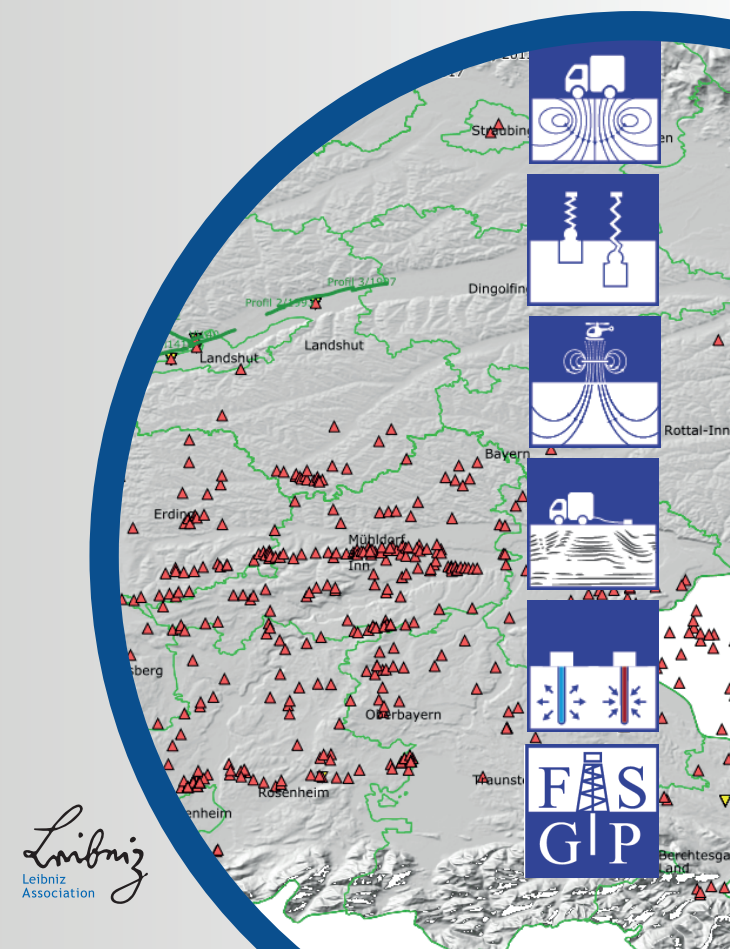Web   www.leibniz-liag.de
      www.fis-geophysik.de
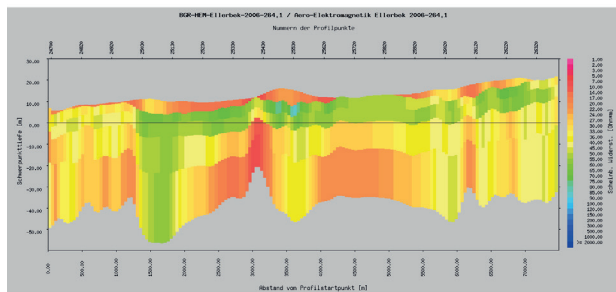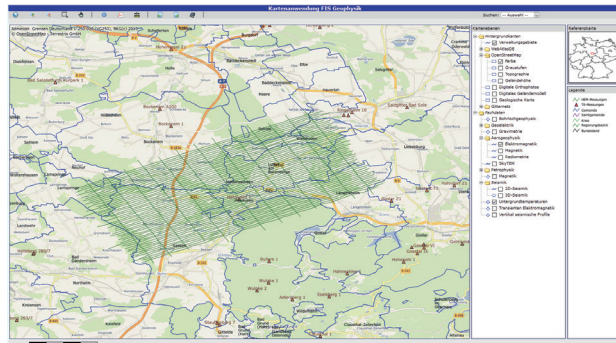
Development team

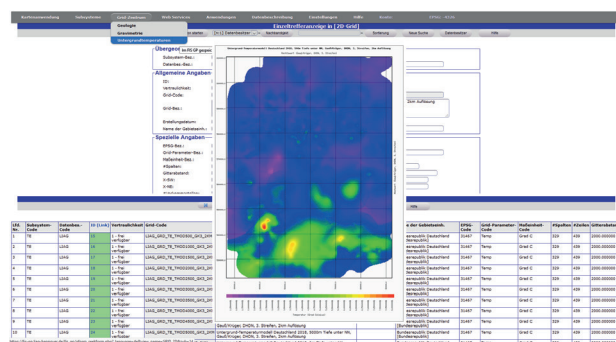Jörn Brunken
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Hannover · June 2019

FIS GP GEOPHYSIC ONLINE
the Geophysics Information System

LIAG Leibniz Institute for Applied Geophysics

Leibniz Association

OVERVIEW DATA SETS

> The Geophysics Information System (FIS GP) contains data about geophysical measurements and evaluations of different geophysical methods, primarily from Germany.

> The FIS GP meets the information demands of the scientific community by providing a web interface. Legal requirements with regard to restricted access are complied with.

> The aim is to build up a comprehensive database covering all of Germany and make it available.

The data currently stored in the database include:

Method	Current database content
Borehole geophysics[1]	2.114 measurement logs from 536 boreholes and 603 composite logs from 603 boreholes
1D-Geoelectrics[1]	21.591 Schlumberger soundings (max. profile length of 15 km) and 5.092 evaluations
2D-Geoelectric[1]	61 profiles and 30 evaluations
3D-Seismik	1 seismic measurements
Gravimetry[2]	355.989 gravity measurements
Magnetic[2]	1.344.295 measuring points (mainly from aeromagnetics)
Temperatures[2]	66.561 temperature values from 11.273 boreholes (to a depth of up to 9,100 m)
2D-Seismics	139 seismic profiles and 300 evaluations
Vertical seismik Profiles[1]	19 VSP-measurements and 51 evaluation
Helicopter geophysic[1]	18 survey areas with 1.773 flight lines and 917.308 measuring point (method HEM, HMG and HRD)
Petrophysic[1]	8.601 measurements on 2.009 samples from 165 boreholes
Transient electromagnetics (TEM)[1]	3 campaigns with 56 measurements and 112 evaluations
SkyTEM = Transient EM[1]	6 areas with 909 profiles, 175.210 measurin points and 1.898 evaluations

[1] project-related distribution   [2] available throughout Germany

WEB INTERFACE

The web interface of FIS GP offers the following functions to users:

> Secure access by a powerful user and access rights management. Access to the database content can be controlled in different ways, for example depending on the ownership or the geographical location of geoobjects.

> Comfortable forms-based search, the possibility to navigate from search results to associated objects in the database and the hierarchical search in the directory of municipalities.

> Geographical search including continuous zoom, selectable background maps (for example VG250®, Web-Atlas (BGR), OSM, DOP40 (BKG), DGM 10/50 (BKG), GK 1000/2000 (BGR)), selectable layers for technical data and integrated search function for geographical objects.

> Availability of a pool containing simple evaluation and visualization methods. This pool is easily expandable via an open interface. Examples are contouring, log resampling, or geoelectric inversion.

> Bilingual user interface (German/English)

> Online inversion service for geoelectric measurements using the 2D/3D inversion program BERT (GÜNTHER, T. & RÜCKER, C.).

The software development is largely based on open source product (MapServer, PHP, Generic Mapping Tools, JpGraph and JavaScript) and the DBMS Microsoft SQL Server.