

Report for NKG WG for Geodynamics

Activity report for 2003 for the National Survey and Cadastre (Kort og Matrikelstyrelsen), Denmark

1. Absolute gravity campaigns

The absolute gravity meter FG5-220 of IfE (Hannover) has visited Denmark in the period June 2-12, 2003. Four stations have been measured.

- Buddinge. Close to the permanent GPS station and Pille 1, the fundamental gravity station of the danish precision gravity network. The site is not anymore in the hands of KMS, which is why it was important to move it. A marker on the floor marks the station. The station was levelled by KMS.
- Vestvolden. The new absolute gravity station in Copenhagen located in a building housing a seismological archive. After the gravity measurement, the station has received a marker on the floor. The station was levelled by KMS.
- Helsingør. Hall of a school (10 klasser skole). The station lies on the 56°N land uplift gravity line.
- Tebstrup (near Skanderborg, Jutland). Old peoples home. The station lies on the 56°N land uplift gravity line.

2. Land uplift gravity lines

Participation in two international relative gravity campaigns along land uplift gravity lines:

- 63°N line with the Finnish Geodetic Institute and Lantmäteriet
- 56°N line with Lantmäteriet

3. Others

Analysis of crustal deformations at permanent GPS sites in Denmark.