

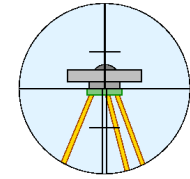
NKG Working Group

Positioning and Reference Frames

Report
2006 - 2010

by

Lotti Jivall & Per Knudsen



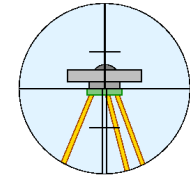
WG Background

Objectives:

Study methods for positioning using satellite techniques,
Develop methods for the monitoring of reference frames,
Implement results for realisation of the reference frames for
practical use,
Exchange information.

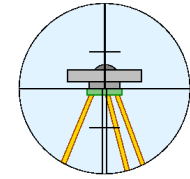
Focus 2006-2010:

- ITRF2005 Nordic reference frame (+Baltic + Arctic)
- Antenna / site calibration
- EUREF LAC
- Galileo – Arctic Testbed



Members/contributors:

- Karsten Engsager
- Shfaqat Abbas Khan
- Finn Bo Madsen
- Per Knudsen (chairman)
- Mette Weber
- Hannu Koivula
- Pasi Häkli
- Markku Poutanen
- Þórarinn Sigurðsson
- Gunstein Dalane
- Torbjørn Nørbech
- Oddvar Bråvold Tangen,
- Olav Vestøl
- Lotti Jivall
- Martin Lidberg
- Dan Norin
- + Priit Pihlak
- + Janis Zvirgzds
- + Aivars Ratkevics
- + Madara Caunite
- + Inese Janpaule
- + ...



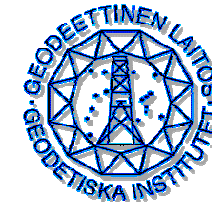
Meetings:

1. 15 - 16 January 2008, DTU, Space, Copenhagen, Denmark
2. 5 - 6 November 2008, Statens Kartverk, Hønefoss, Norway
3. 6 - 7 May 2009, Lantmäteriet, Gävle, Sweden
4. 21 – 22 October 2009, FGI, Masala, Finland
5. 15 - 16 June 2010, DTU Space, Copenhagen, Denmark

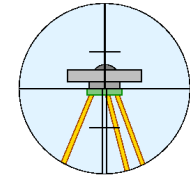
DTU Space
National Space Institute

STATENS KARTVERK

LANTMÄTERIET



DTU Space
National Space Institute

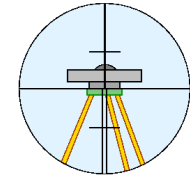


ITRF2005 reference frame

The new ITRF2005 reference frame covering the Nordic region including Iceland and the Baltic states was established through:

- 2008 week 40 campaign
- Data Processing with more softwares/strategies
- Transformations to national ETRS89





More info:

Tuesday September 28.

Session 2: Terrestrial reference frames (global and national):

- **Processing of the NKG 2008 GPS campaign**
Lotti Jivall
- **The NKG 2008 GPS campaign – transformation results**
Martin Lidberg, Pasi Häkli, Karsten Engsager and Torbjørn Nørbech