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
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
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