



Programme

Monday September 27

- 12:00 – 13:00 Lunch
- 13:00 – 13:15 Welcome – Anne Cathrine Frøstrup
- 13:15 – 13:30 Opening of the meeting - Anders Olsson
- 13:30 – 14:30 Short reports from the existing WG
Chair: Anders Olsson
- 14:30 – 15:00 Coffee break
- 15:00 – 15:30 NKG Presidium report – Anders Olsson
- 15:30 – 16:00 National reports (5-min each)
Chair: Per Erik Opseth
- 16:00 – 17:30 Presentation of posters
- 17:30 – 18:00 Poster Sessions
- 18:30 – 23:00 Icebreaking party – at the Statens kartverk



Programme

Monday September 27

- 12:00 – 13:00 Lunch
- 13:00 – 13:15 Welcome – Anne Cathrine Frøstrup
- 13:15 – 13:30 Opening of the meeting - Anders Olsson
- 13:30 – 14:30 Short reports from the existing WG
Chair: Anders Olsson
 - Height determination – Olav Vestøl
 - Geodynamics – Martin Lidberg
 - Positioning and reference frame – Per Knutsen
 - Nordic Geodetic Observing System – Markku Poutanen
 - Geoids determination – Dag Solheim
 - NORPOS project – Bo Johnsson
 - VLBI task force – Rüdiger Haas
- 14:30 – 15:00 Coffee break



Programme

Monday September 27

- 15:00 – 15:30 NKG Presidium report – Anders Olsson
- 15:30 – 16:00 National reports (5-min each)
Chair: Per Erik Opseth
 - Revision of NKG status
 - The proposed future of NKG
 - Presentation of resolution committee
- 16:00 – 17:30 Presentation of posters
- 17:30 – 18:00 Poster Sessions
- 18:30 – 23:00 Icebreaking party – at the Statens kartverk



Programme

Tuesday September 28

- **08:45 – 10:30 Session 1: Climate change and earth system studies** Chair: O. Kristiansen, J. Johansson
- **10:30 – 11:00 Coffee break**
- **11:00 – 12:30 Session 2: Terrestrial reference frames**
Chair: J. Johansson, H.P. Kierulf
- **12:30 – 13:00 National discussion on WGs and Resolution**
- **13:00 Lunch**
- **14:00 – 15:30 Session 2 (continue)**
- **15:30 – 19:30 Visit OSLO, The Opera, Viking-ships.**
We will go by bus to Oslo. Baguettes and soft drinks will be served in the bus. Dinner at 20:00 back at the hotel.



Session 1: Climate change and earth system studies

Chair: O. Kristiansen & J. Johansson

Tuesday September 28

- 08:45 - 09:05 **Validation of Climate Models Using Ground-Based GNSS Observations**
G Elgered, J Johansson, R Emardson, P Jarlemark, E Kjellström, T Ning, U Willén (invited)
- 09:05 - 09:25 **Combined and consistent analysis of climate-related geodetic observation types with the GEOSAT software**
Per Helge Andersen
- 09:25 - 09:45 **Greenland and Antarctica changes from GRACE and airborne surveys**
Rene Forsberg



Session 1: Climate change and earth system studies

Chair: O. Kristiansen & J. Johansson

Tuesday September 28

- 09:45 - 10:00 **Superconducting gravimeter and GPS observes changes in present day ice melting at Ny-Ålesund, Svalbard, Norway**
Ove Christian Dahl Omang and Halfdan Pascal Kierulf
- 10:00 – 10:15 **The influence of decadal- to millennial-scale ice mass changes on present-day vertical land motion in Greenland: Implications for the interpretation of GPS observations**
Matthew Simpson
- 10:15 – 10:30 **Observing regional ice mass changes with GRACE.**
Katrin Bentel
- 10:30 – 11:00 Coffee break



Session 2: Terrestrial Reference Frames

Chair: J. Johansson & H.P. Kierulf

Tuesday September 28

- 11:05 – 11:35 **Requirements for geodetic reference frames in global change research** Herman Drewes (invited)
- 11:35 – 11:50 **Measurements with Network-RTK: The effect of electron density variability in the ionosphere**
R. Emardson, P. Jarlemark, J. Johansson, M. Lidberg, and B. Jonsson
- 11:50 – 12:05 **The 3rd generation SWEPOS network – towards a modern GNSS reference station infrastructure**
Lars Jämtnäs, Johan Sunna and Bo Jonsson
- 12:05 – 12:20 **Swedish user guidelines for Network RTK**
Robert Odolinski
- 12:20 – 12:35 **The process of changing from local systems into SWEREF 99**
Anders Alfredsson, Bengt Andersson, Lars E. Engberg, Fredrik Dahlstrøm, Christina Kempe and Gésa Lohasz



Programme

Tuesday September 28

- 12:35 – 13:00 National discussions on WGs and Resolution
- 13:00 Lunch



Session 2: Terrestrial Reference Frames
Chair: J. Johansson & H.P. Kierulf

Tuesday September 28

- **14:00 – 14:15 The search for the true crustal deformations in Fennoscandia from BIFROST**
Martin Lidberg, Jan M. Johansson, Hans-Georg Scherneck
- **14:15 – 14:30 Processing of the NKG 2008 GPS campaign**
Lotti Jivall, Oddvar Tangen, Priit Pihlak, Pasi Häkli, Gunstein Dalane, Martin Lidberg, Shfaqat Abbas Khan
- **14:30 – 14:45 The NKG 2008 GPS campaign – transformation results**
Martin Lidberg, Pasi Häkli, Karsten Ensager and Torbjørn Nørbech
- **14:45 – 15:00 A new geodetic reference frame IGS05N in Norway, and its relation to the official reference frames EUREF89 and NN2000**
Torbjørn Nørbech, Oddvar B. Tangen and Halfdan P. Kierulf



Session 2: Terrestrial Reference Frames
Chair: J. Johansson & H.P. Kierulf

Tuesday September 28

- **15:00 – 15:15 On the need of improved gravity data for the computation of the next generation of geoid models for Sweden**
Jonas Ågren
- **15:15 – 15:30 Determination of the GRAVity field over NORwegian territories (GRAVNOR) using GOCE data and space geodesy software GEOSAT**
Eirik Mysen
- **15:30 - 19:30 Visit Oslo (Viking ships, the Opera)**
We will go by bus to Oslo
Baguettes and soft drink/beer on the bus
- **20:00** Dinner at the hotel



Programme

Wednesday September 29

- 09:00 – 10:30 Session 2: Terrestrial Reference Frame (cont)
Chair: Markku Potanen & Martin Lidberg
- 10:30 – 11:00 Coffee break
- 11:00 – 13:00 Session 3: Outreach and Recruitment
Chair: Terje Dahlen
- **Panel discussion:** Knut Jørgen Røed Ødegård, Bjørn Ragnvald Pettersen, Nina Kristiansen, Jan Johansson
- 13:00 – 14:00 Lunch
- 14:00 – 14:10 Photo Session
- 14:10 – 15:30 Presentation of posters
- 15:30 – 16:00 Coffee break
- 16:00 – 18:00 Poster Sessions
- 19:00 – Aperitif and dinner



Session 2: Terrestrial Reference Frames

Chair: Markku Poutanen and Martin Lidberg

Wednesday September 29

- 09:00 – 09:15 **Height determination by combining campaign and vector measurements, geoid and leveling**
Olav Vestøl, Torbjørn Nørbech, Oddvar Tangen
- 09:15 – 09:30 **Height determination using GNSS – guidelines for different survey applications** Per-Ola Eriksson
- 09:30 – 09:45 **Evaluation of height network in Latvia**
Janis Kaminskis, Janis Balodis, Inese Janpaule, Janis Zvirgzds
- 09:45 – 10:00 **Update of the Masala-Vihti calibration line for relative gravimeters** Hannu Ruotsalainen, Seppo Elo, Jaakko Mäkinen
- 10:00 – 10:15 **Updating the Finnish first order gravity network using the outdoor absolute gravimeter A 10-020**
Jaakko Mäkinen, Marcin Sekowski, Jan Krynski, Jyri Näränen, Arttu Raja-Halli, Hannu Ruotsalainen, Heikki Virtanen
- 10:15 – 10:30 **Geodynamics with an interferometrical tilt meter**
Hannu Ruotsalainen
- 10:30 Coffe Break



Session 3: Outreach and recruitment

Chair: Terje Dahlen

Wednesday September 29

- 11:00 - 13:00 **Panel Discussion:**
 - - **Knut Jørgen Røed Ødegaard**, well known astrophysics: Experiences about bringing research to the people. How to succeed.
 - - **Bjørn Ragnvald Pettersen**, professor in Geodesy: Present statistics for university education in geodesy during the last two decades. The observed trends are discussed. Possible causes are identified. Consequences for professional recruitment to public service and research are alerted.
 - - **Nina Kristiansen**, editor forskning.no: How the best organizations of outreach and research communications do it.
 - - **Jan Johansson**, Chalmers University of Technology: Are we aware of the importance of geodesy – now and in the future.
- 13:00 Lunch
- 14:00 Photo Session



Session 2: Terrestrial Reference Frames

Chair: Markku Poutanen and Guðmundur Valsson

Wednesday September 29

- 14:15 – 14:30 **Regional Geodetic Observing System**
Markku Poutanen
- 14:30 – 14:45 **The earthquake in South Iceland 2008 and its effect on the geodetic reference systems in surrounding areas**
Guðmundur Valsson
- 14:45 – 15:00 **Reanalysing astronomical coordinates of old fundamental observatories using satellite positioning and deflections of the vertical**
Martin Ekman and Jonas Ågren
- 15:00 Coffee break
- 15:30 - 18:00 Poster Session
- 19:00 Aperitif and dinner



Programme

Thursday September 30

- 09:00 – 10:30 Resolutions and Elections
- 10:30 – 11:00 Coffee break
- 11:00 – 12:00 Closing Session
- 12:00 Lunch
- 13:00 Departure, bus from Sundvolden Hotel to Oslo Airport Gardermoen