



NKG Working Group of Geoid and Height Systems

Preliminary Agenda for the Meeting in Helsinki, Finland

March 12-13, 2018

(Version: 2018-03-06)

Monday 12 March (Pasila Center for Government Agencies)

12.00 – 13.00 Lunch at Keltasirkku (at own expense)

Introduction

13.00 Meeting starts

13.00 – 13.15 Welcome
Approval of the agenda
Minutes from the last meeting (Riga 2017)
Appointment of secretary
Introduction by the chair, input from the NKG presidium

Developments in geoid modelling and height systems

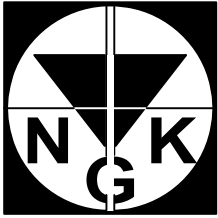
13.15 – 13.35 René Forsberg: “Aerogravity and the 1-cm geoid ... Nordic, Greenland and internationally ...”

13.35 – 13.55 Ove Omang, Olav Vestøl: Results from the project “A common reference frame for sea and land”

13.55 – 14.15 Andreas Rüdja: “The New Estonian Height System EH2000”

14.15 – 14.35 Artu Ellmann, Silja Märdla, Tõnis Oja: “A quest for the 5-mm accurate geoid model - a mission completed in Estonia”

14.35 – 14.55 Coffee break



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- 14.55 - 15.15 Sander Varbla, Artu Ellmann, Silja Märdla, Anti Gruno:
"Assessment of marine geoid models by ship-borne GNSS profiles - a case study for Gulf of Finland"
- 15.15 - 15.30 K. Morozova, R. Jäger, G. Silabriedis, J. Balodis, J. Kaminskis:
"Calculations of QGeoid of Latvia including DoV observations"
- 15.30 - 16:00 Martin Vermeer: "Relativity and the future of vertical datums - about the geometry of space-time for geodesists."

Discussion of the next 4-year period

The NKG presidium has agreed on a first proposal of focus areas for the next four years; see the enclosed PowerPoint presentation '*NKG_structure_2018_2022_to Working groups.ppt*'. They now want our feedback, especially on "Future height system" and "Geoid - 5 mm".

We also need to discuss the continuation of the work with geoid modelling and height systems within NKG in the next term.

- 16.00 - 16.55 Discussion of mainly the following questions:
- What do you think about the proposed focus areas?
 - Should the focus areas be modified somehow?
 - Is something crucial missing? (NKG databases? land uplift modelling?)
 - Should the WG of Geoid and Height System continue in the next period? The question what WGs that are needed has been discussed by the presidium, but so far without a conclusion.
 - If WGGHS will continue, should its direction change? (see this as input to the next WG and Chairperson)
- 19.00 - Geoid and Height System Dinner at Restaurant Mamma Rosa, Helsinki



Tuesday 13 March (Scandic Park Hotel, Mannerheimintie 46)

NKG2015 geoid model project

08.30 - 08.45 Jonas Ågren: "Status in the NKG2015 geoid model project"

08.45 - 09.15 Planning of final publication

09.15 - 09.35 Coffee break

09.35 - 10.30

Business matters

- Short discussion of NKG Joint Land Uplift modelling roadmap relevant to WGGHS (NKG joint uplift modelling is otherwise dealt with at the Geodynamics meeting)
- Status in the FAMOS project, new developments
- The Interreg Baltic Sea Region (IBSR) project "Semi-Autonomous Hybrid Navigation System in Baltic Sea Region"
- Participation in the EGM2020 Evaluation Working Group
- Gravity data and GNSS/levelling to NGA for computation of EGM2020, data to BGI
- The 1-cm geoid experiment (IAG JWG 2.2.2)
- NKG General Assembly in Helsinki September 3-6, 2018 (<http://www.nls.fi/nkg2018>)
- AOB

National reports

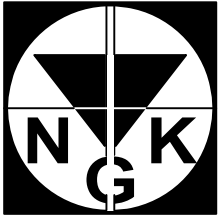
10.30 - 12.00

National/Institutional reports (**10 minutes** per country)

- Denmark
- Japan (Koji Matsui, GSI: "Japanese geoid example")
- Estonia
- Finland
- Latvia
- Lithuania
- Iceland
- Norway
- Sweden

12.00

Closing of the meeting, next meeting(s)



**NKG Working Group of Geodynamics
Preliminary Agenda for the Meeting in Helsinki, Finland**

March 13-14, 2018

Tuesday 13 March (Scandic Park Hotel, Mannerheimintie 46)

12.00 – 13.00 Lunch at own expense

Introduction

13.00 Meeting starts

13.00 – 13.20 Welcome
Approval of the agenda
Minutes from the last meeting (Riga 2017)
Appointment of secretary
Introduction by the chair, input from the NKG presidium

Scientific presentations

13:20 – 13:40 Andreas Engfeldt: “RG2000 - the new gravity reference frame of Sweden”

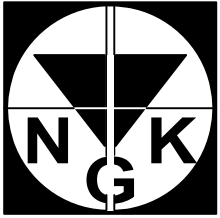
13:40 – 14:00 Ove Omang: “Comparison of two superconducting gravimeters located at Ny-Ålesund, Svalbard”

14:00 – 14:20 Heikki Vertanen: “Superconducting gravimeters during 2014-2018 at Metsähovi geodetic research station”

14:20 – 14:40 Kristian Evers: “Introducing the NKG Land Uplift model to a wider audience”

14:40 – 15:00 ?

15:00 – 15:20 Coffee



15.20 – 15.40

Follow up of the NKG Joint Land Uplift Workshop and Discussion of the next 4-year period

Short discussion of roadmap relevant to Geodynamics WG

The NKG presidium has agreed on a first proposal of focus areas for the next four years; see the enclosed PowerPoint presentation '*NKG_structure_2018_2022_to Working groups.ppt*'.

15.40 – 16.20

GIA modelling work

Holger Steffen: "GIA model uncertainty estimation and 3D velocities"

16.20 – 16.50

Empirical land uplift work

Olav Vestøl: "Continuing developments of empirical land uplift modelling and estimation of uncertainty"

16.50 – 17.15

Absolute Gravimeter work

Per-Anders Olsson: "Status of publication and some results"

19.00 -

Geodynamics Dinner at Helsinki Center

Wednesday 14 March (Pasila Center for Government Agencies)

08.30 – 09.30

Continuation of discussion of the next 4-year period

09.30 – 09.45

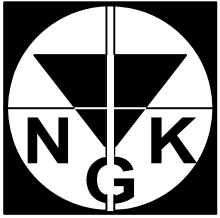
Coffee break

National reports

09.45 – 11.15

Short national/Institutional reports (**maximum 10 minutes** per country except for the hosting country)

- Latvia
- Norway
- Lithuania



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- Iceland
- Sweden
- Finland
- Denmark
- Estonia

11.15 - 12.00

Business matters

- [H2020. TOPIC : The changing cryosphere: uncertainties, risks and opportunities](#)
- NKG General Assembly in Helsinki September 3-6, 2018 (<http://www.nls.fi/nkg2018>)
- Status of the NKG website
- AOB

12.00

Closing of the meeting, next meeting(s)

12.00 - 13.00

Lunch at Keltasirkku (at own expense)