

NKG Working Group of Geodynamics and Earth Observation (WGGEO)

Agenda for the meeting in Lyngby, Denmark March 11-12, 2019

In case of practical problems contact the local organisers Rene Forsberg at +45-2540-2775 or Gabriel Strykowski +45-4525-9715.

The meeting will take place at DTU Space, Building 202, meeting room Ly202-R8003

Monday 11 March

12.00 – 13.00	Lunch in the canteen attached to Building 202 (on own costs, ca. 40-50 DKK)
	Introduction
13.00	Meeting starts at DTU Space, Building 202, meeting room Ly202-R8003
13.00 - 13.30	Welcome
	 Approval of the agenda Minutes from the last meeting (Helsinki 2018) Appointment of secretary Participants of dinner Monday evening Introduction by the chair, input from the NKG presidium
	InSAR
13.30 - 14.00	John Merryman (invited): "A top-down introduction to Spaceborne Synthetic Aperture Radar Interferometry"
14.00 – 14.15	Joanna Balasis-Levinsen (invited): "Building a national InSAR infrastructure"
14.15 – 14.30	Hans-Georg Scherneck (invited): "Inference of surface deformation along a central section of the Pärvie fault, Swedish Lapland, and at the Kiruna mine using InSAR"
14.30 - 15.15	Discussion
14.30 – 14.35	Halfdan Pascal Kierulf: "InSAR plans at Kartverket and one slide about DRF"
14.35 – 14.40	Faramarz Nilfouroushan, Jonas Ågren, Martin Lidberg: "Some remarks on InSAR in Sweden"



- InSAR plans at national authorities in NKG
- NKG's DRF project and InSAR
- Geodetic SAR project
- NKG coordination needed?
- WGGEO as annual forum?
- Start of a new NKG study group?

15.15 – 15.35 *Coffee and tea*

National reports

15.35 – 17.30 National/Institutional reports (10 minutes per country except host country)

- Norway
- Lithuania
- Iceland
- Sweden (Lantmäteriet + OSO)
- Finland
- Denmark
- Estonia
- Latvia

19.00 – Social dinner at Restaurant (Wagamama, Solbjergvej 3, Frederiksberg, on own costs)

Tuesday 12 March

Glacial Isostatic Adjustment

8:30 - 8:45	Maaria Nordman: "Land uplift on High Coast and Kvarken archipelago"
8:45 - 9:15	Discussion
8:45 - 8:55	Holger Steffen: "NKG2022GIA activity status March 2019"
	 Coordination of the NKG2022GIA activity
	Gravimetry
9.15 - 9.30	Hans-Georg Scherneck, Marcin Rajner, Maxime Mouyen: "Superconducting and Absolute Gravimetry: Reprocessing of the multi-campaign adjustment 2009-2017 and obstacles for adding 2018"
9.30 - 9.45	Maxime Mouyen, Hans-Georg Scherneck, Marcin Rajner: "Investigation of hydrological effects at the superconducting gravimetry site of Onsala"



9.45 – 10.25	Discussion
9.45 - 9.55	Mirjam Bilker-Koivula: "Status of the Finnish AG paper"
9.55 – 10.05	Per-Anders Olsson: "The absolute gravity project – status and next steps"
	 Data to/in AGrav AG data after 2015 IGRF/IGRS Research projects (e.g. regarding hydrology), a NKG study group?
10.25 - 10.45	Coffee and tea
10.45 - 11.15	Discussion (cont.)
10.45 – 10.55	Hannu Ruotsalainen (given by Mirjam Bilker-Koivula): "Status and views on the land uplift gravity lines"
	Data situationPublication plansCoordination/help needed?
	Dynamic Reference Frame
11:15 – 11:30	Rebekka Steffen, Juliette Legrand, Holger Steffen, Martin Lidberg, Ambrus Kenyeres, Elmar Brockmann, Simon Lutz: "Deformation model for Europe: Application of the least-square collocation"
11:30 - 11:45	Diana Haritonova: "The impact of the Baltic Sea loading on GNSS station coordinate time series in the territory of Latvia"
11:45 - 11:55	Business Matters
	 Status of the NKG website Email list/Mailing list SCAR-SERCE/POLENET 2019 GIA Training School, Lantmäteriet Gävle, Sweden AOB
11.55 – 12.00	Closing of the meeting, next meeting(s)
	Iceland or Sweden? Can also be discussed Wednesday in WGFHSG



NKG Working Group of Future Height Systems and Geoid (WGFHSG)

Agenda for the meeting in Lyngby, Denmark March 12-13, 2019

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	Scientific presentation (20 min talks)
13:15 – 13:35	Per Anders Olsson "Marine and airborne gravity measurements with the Swedish gravimeter, ZLS-D13"
13:35 – 13:55	Thomas Hammarklint: "A common reference datum for nautical charts and water level information in the Baltic Sea"
13:55 - 14:15	Olav Vestøl: "Variation of sea level in a Norwegian fjord"
14:15 - 14:30	Coffee and tea
14:30 – 14:50	Sander Varbla, Artu Ellmann: "Assessment of marine geoid models by ALS profiles in the Gulf of Finland, the Baltic Sea"
14:50 – 15:10	Jonas Ågren: "Status and latest results regarding gravity and geoid in the FAMOS project"
15:10 – 15:30	Timo Saari, <u>Mirjam Bilker-Koivula</u> , Hannu Koivula, Jaakko Kuokkanen Sonja Lahtinen, Pasi Häkli: "FAMOS Odin: Geoid model validation in the Gulf of Finland using GNSS-derived geoid heights"



	Business matters
15:30 - 15:45	Jonas Ågren: "Status regarding the realization of the International Height Reference System"
	Discussion
15:45 – 16:00	Final wrap-up before delivery of NKG2015 gravity database (minus Polish and German data) to NGA (for EGM2020)
16:00 - 16:20	NKG gravity database
	 Update with brand new Lithuanian data Relation between the FAMOS and NKG gravity databases Permission issues
16:20 - 17:00	WGFHSG the next four periods - introduction to discussion
19:00 –	Social dinner at Tony's (Havnegade 47, Copenhagen)

Wednesday 13 March

	Discussion
08:30 - 09:45	Future work / Projects
	 What about empirical land uplift modelling in the WGFHSG? Apparent land uplift model Error field of geoid (Error propagation in geoid determination) Projects or study areas?
09:45 - 10:00	Coffee and tea
	National reports
10:00 - 11:30	National/Institutional reports (10 minutes per country) - Iceland - Lithuania - Latvia - Estland - Danmark - Finland - Sweden - Norway
11:30 - 12:00	Wrap up and next meeting