



NORDISKA KOMMISSIONEN FÖR GEODESI

Nordic Geodetic Commission, Working Group for GNSS positioning
Chairman
Casper Jepsen
Agency for Data Supply and Infrastructure, Denmark,
Sankt Kjelds Plads 11
2100 Copenhagen Ø
Denmark

NKG Science week and Working Group for GNSS positioning

DRAFT Agenda for the physical meeting (version 7/3),
Hotel Reykjavík Grand, Iceland, March 12–14, 2024

Place:

On-site:

Hotel Reykjavík Grand

Sigtún 28, 105 Reykjavík, Iceland

Online: Link will be provided to the registered participants

All times displayed as UTC (Iceland Time).

Tuesday March 12 (together with all WG)

13:30–18:00 Workshop on "Geodesy Redefined? - Quantum & AI Insights"
19:30–22:00 Welcome Party / Icebreaker.
Location: Vflí, Engjateigur 9, 105 Reykjavík

Wednesday March 13

The meeting will take place at the Hotel Reykjavík Grand – Room: Ásgarður

Online link will be sent later

08:30-09:00

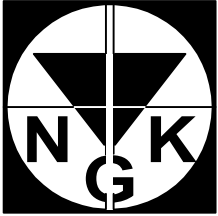
Welcome & Practical

- Welcome by Chairman
- Practical/Technical details
- Appointment of secretary for the meeting (Dalia Prizginiene and ?)
- Approval of agenda
- Approval of the minutes from Copenhagen

09:00-12:30

Session 1 WG GNSS positioning

- Topi Rikkinen Online: CORS data flow in NKG – interesting picks (20 min)
- Kent Ohlson: Support for BeiDou in SWEPOS network RTK service – Results from test measurements in different surveying environments as a basis for advice and guidelines for users of SWEPOS network RTK service (20 min)



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- Simo Marila - Online ATKO-project - Crowd-sourced boundary marker positioning (20 min)
- Casper Jepsen: Norm for RTK services in Denmark and status for services right now (15 min)
- Kent Ohlsson or Lars Jämnäs - Guidelines for RTK (15 min and some Discussion)
- Anders Frisk - Monitoring of RTK (10 -15 min + discussion about common future cooperation)
- Casper Jepsen and Peter Wiklund - NMA role as service provider and how to prepare for the mass market (Discussion)

13:30-15:45 **Session 2: R&D Transformations and GNSS positioning (Joint session with WGRF)**

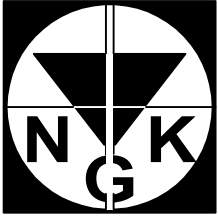
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- Pasi Häkli: Quick and dirty to NKG transformation (15 min)
- Kristian Evers: Some loose thoughts on simplifying transformation parameter derivation (15 min)
- Christian Brønnum: GeoRust rinex and GNSS data handling (15 min)
- Kibrom Abraha (online): New SWEPOS post-processing calculation service - An e-service that calculates position for submitted static GNSS measurements (15 min)
- Michael Dähnn: Galileo High Accuracy Service performance (30 min)
- Kent Ohlson: Experience and learnings from the DINPAS project – Generation of SSR corrections using GNSMART and results from dynamic positioning tests based on SSR corrections (15 min)
- Magdalena Golofit (online): Danish National Galileo Overlay - Dango (15 min)
- Discussion on joint activities (15 min)

15:45-16:15 Break

16:15-17:45 **Session 4: National Reports (Joint session with WGGP), 10min/each countries, focus on reference frames and GNSS positioning**

- Denmark
- Estonia
- Finland
- Iceland
- Latvia
- Lithuania
- Norway
- Sweden



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19:30- **Science Week Dinner** <https://www.geirismart.is/en>
Restaurant: Geiri Smart
Hverfisgata 30
101 Reykjavik

Thursday March 14

The meeting will take place at the Hotel Reykjavik Grand – Room: Ásgarður

Online link will we be sent later

08:30-12:30 **Session 3: Jamming and spoofing**

- Tor-Ole Dahlø: Status from NMA «store Chefmøde» group on Cybersecurity, interference and vulnerability (20 min)
- Zahidul Bhuiyan– Online: FGI projects related to jamming & spoofing & resilience (20 min)
- Kibrom Abraha: SWEPOS GNSS signal disturbance monitoring system - Status and future development plans (20 min)
- Søren Reime Larsen: Danish Result from Jamming Test 2023 (20 min)
- Carl Ellington: Statens Kartverk – Jamming test 2023 (20 min)
- Oscar Isoz -Online: RISE results from Jammertest 2023 (20 min)
- Toni Hammerberg – Online: OSNMA in spoofing detection and positioning in practice (20 min)
- Casper Jepsen: Discussion on how to proceed with Jamming activities

13:30-16:45 **Session 4: Space weather and ionospheric**

- Martin Håkansson: Modernization of the SWEPOS Ionospheric monitor for the next solar maximum (20 min)
- Sarah Schultz Beeck: SWADO – Towards real-time GNSS alerts for the Arctic (20 min)
- Simo Marila – Online: Experience from solar maximum 25 (so far) (20 min)
- Mika Saajasto – Online: Convolutional neural network based approach for estimating ionospheric delay from GNSS observables (20 min)
- Sarah Schultz Beeck - BiScEF - A new format for archiving and sharing scintillation data
- Discussion on method used in the calculation.
 - Scientific approach or the user perceptive.

16:45-17:00 **Closing of the meeting (and planning on next meeting)**