



20TH GENERAL ASSEMBLY
“GEODESY IN A CHALLENGED ENVIRONMENT”
VILNIUS, LITHUANIA, 14-17 SEPTEMBER 2026

Venue: **Hilton Garden Inn Vilnius City Center**, address: Gedimino av. 44B, Vilnius, Lithuania

PROGRAM

Monday, 14th September

13:30 – 15:00	NKG Presidium meeting (by invitation only)
15:00 – 15:30	<i>Coffee break</i>
15:30 – 17:00	NKG Presidium meeting (by invitation only)
18:30 – 21:00	<i>Icebreaker reception (Hilton Garden Inn Vilnius City Center restaurant on the ground floor or terrasse, depending on the weather)</i>

Tuesday, 15th September

9:00 – 10:30	Session 1. Geodesy in a Challenged Environment Welcome and Opening 1. President’s report – Achievements of the 2022-2026 period (Martin Lidberg) 2. The Global Geodetic Observing System (GGOS): Integrating Geodetic Infrastructure, Science, and Services for Earth Monitoring (Laura Sánchez) 3. EPOS, a community-driven research infrastructure for open access to interdisciplinary data and services from solid Earth science (Lilli Freda) 4. Airborne Operations in the Age of GNSS Jamming: The Lithuanian Experience (Povilas Liberis) 5. Group Photo
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	Session 2. Education and Outreach 1. Geodesy education in NKG countries (Maaria Nordman) 2. Making Geodesy Engaging: Geo-Engineering Studies and Approaches to Public Outreach in Lithuania– (Saulius Urbanas, Eimuntas Parseliunas) 3. The Attractiveness of Higher Education in the Age of Artificial Intelligence (Jānis Kaminskis and Armands Celms) 4. Panel Discussion
12:30 – 13:30	<i>Lunch</i>
13:30 – 15:00	Session 3. Posters Poster Pitch (short introduction - 1 slide (max. 2 min) per poster) 1. Five years of InSAR displacement time series from a field test of compact active transponders (Aslak Meister, Kristian Keller & John Peter Merryman Boncori) 2. Development of Sweden's National SAR Fiducial Infrastructure and Six Years of Operational Experience with Radar Transponders (Famarz Nilfouroushan, Nureldin Gido, Chrisan Puwakpitiya Gedara & Per-Anders Olsson) 3. EPOS-GNSS Data and Products - Integrating GNSS Data Across Europe for Advancing Geodetic Research and Applications (Holger Steffen, Rui

	Fernandes, Carine Bruyninx, Luis Carvalho, Paul Crocker, Gaël Janex, Juliette Legrand, Jean-Luc Menut, Michela Ravanelli, Anne Socquet, Mathilde Vergnolle & EPOS-GNSS Members) 4. EPOS Sweden – the Swedish contribution to the European Plate Observing System (Holger Steffen & the EPOS Sweden consortium) 5. GIMachine: a community-driven rescue and recovery initiative for legacy sea level and glacial isostatic adjustment modeling data (Roger C. Creel, Samuel T. Kodama, Joseph P. Tulenko, Rebekka Steffen, Holger Steffen, Riccardo Riva, Justin Quinn & Jason P. Briner) 6. Towards an Integrated Land Uplift Model for Fennoscandia Using Multi-Observation Data (Mohammad Bagherbandi) 7. Monitoring Svalbard's Changing Cryosphere - Insights from 25 years of Superconducting Gravimetry (Ove Christian Dahl Omang) 8. The new Norwegian gravity reference frame: NGRF 2000” (Kristian Breili & Ove Christian Dahl Omang) 9. Regional Covariance Model and Chrono-Geoid Determination Using Least-Squares Collocation in Finland (Hugo Lecomte & Mirjam Bilker-Koivula) 10. A Geoid-Referenced Framework for Real-Time Maritime Vertical Positioning and Under-Keel Clearance Assessment (Aleksei Kupavõh, Artu Ellmann, Sander Varbla & Nicole Delpeche-Ellmann) 11. Evaluation of SWOT and Sentinel-3 altimetry for coastal gravity anomaly estimation along the Norwegian coast using least squares prediction (Kristian Breili) 12. An LSC-based framework for geoid-consistent geometric height reference surface determination in the Baltic Sea using SWOT altimetry (Sander Varbla & Thomas Gruber) 13. Probabilistic Reconstruction of Fine-Scale Dynamic Topography using SWOT Satellite Altimetry and Deep Learning (Saeed Rajabi-Kiasari, Nicole Delpeche-Ellmann & Artu Ellmann) 14. 2020–2024 review of the national boundary between Sweden and Norway (Dan Norin, Anders Østeraas, Martin Lidberg, Tor Erik Bakke & Per Sörbom) 15. Digital tools for planning and documentation of field work for maintenance of the national geodetic infrastructure in Sweden” (Karl Tirén & Kent Ohlsson et al.) 16. Lantmäteriet’s Strategy for Geodesy 2026–2035 (Per-Anders Olsson, Tina Kempe, Tomas Holmberg, Lars Jämttä, Jonas Ågren & Martin Lidberg)
15:00 – 15:30	<i>Coffee break – movie “Nummela Standard Baseline“ (Markku Poutanen)</i>
15:30 – 17:00	Session 4. NKG History and Awards 1. History of the Nordic Geodetic Commission (Markku Poutanen) 2. Award Ceremony for the NKG Young Scientist Award (Martin Lidberg) 3. Award Ceremony for the NKG Award (Martin Lidberg) 4. Asplund lecture (Gabriel Strykowski): • NKG and my professional career • Marine gravimetry: my take

Wednesday, 16th September

9:00 – 10:30	Session 5. Reference Frames 1. WGRF report 2022–2026 (Pasi Häkli) 2. NKG GNSS Analysis Centres: Operational Processing, Reprocessing 2 and BIFROST – Status 2022–2026 (Tobias Arnell) 3. Anatomy of Offset-Induced Noise Disturbances in Nordic–Baltic GNSS Time Series (Alejandro Arias) 4. Testing the NKG2020 Transformation with a GNSS Campaign in Southern Estonia (Tarmo Kall) 5. Developing a New Realization of an Existing National Height Reference: The Case of DVR90 (Kristian Keller) 6. Sea level determination with GNSS-IR by using Norwegian GNSS positioning network stations (Michael Dähnn)
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:30	Session 6. Geodynamics and Earth Observation 1. WGGeo report 2022–2026 (Holger Steffen) 2. The NKG InSAR Report: A Nordic Overview of InSAR Activities and SAR Fiducial Infrastructure (Faramarz Nilfouroushan) 3. The Next Generation of Land Uplift and Glacial Isostatic Adjustment Models for Northern Europe (Holger Steffen) 4. Ocean tide loading in East Antarctic GNSS stations (Aino Schulz) 5. The Fennoscandian Land Uplift Gravity Lines (Jaakko Mäkinen) 6. EQUIP-G Instrument Comparison and Geothermal Use Case (Mirjam Bilker-Koivula)
12:30 – 13:30	<i>Lunch</i>
13:30 – 15:00	Session 7. Height and Geoid 1. WGHG report 2022–2026 (Ove Christian Dahl Omang) 2. NKG gravity DB: Gravity Data Release (release01tmp) for NKG202X Geoid Project (Gabriel Strykowski) 3. Investigation of systematic quasigeoid differences in mountain areas due to the handling of topographic corrections and analytical continuation in the old NKG2015 geoid project (Jonas Ågren) 4. Mean Sea Surface from SWOT – improvements along the Norwegian coast and inside fjords (Matea Tomic) 5. Refinement of gravimetric quasigeoid modelling in the Gulf of Finland using SWOT-derived geoidal height constraints: contribution to the NKG2026 project (Sander Varbla) 6. A SWOT-Based Geometric Geoid Surface for Approximating and Validating Gravimetric Marine Geoid Models (Aleksei Kupavõh)
15:00 – 15:30	<i>Coffee break</i>
15:30 – 17:00	Session 8. National Reports 1. National Report of Denmark 2. National Report of Estonia 3. National Report of Finland 4. National Report of Iceland 5. National Report of Latvia 6. National Report of Lithuania 7. National Report of Norway 8. National Report of Sweden
19:00 – 22:00	<i>Gala dinner (Restaurant “Neringa”, address: Gediminas avenue 23, Vilnius)</i>

Thursday, 17th September

9:00 – 10:30	Session 9. GNSS positioning 1. WGGP report 2022–2026 (Tor-Ole Dahlø) 2. Some potential (ab)uses of the upcoming xDOMES numbering scheme (Thomas Knudsen) 3. Outlier detection and quality control - paradoxes with some existing approaches and suggested alternatives (Ola Øvstedal) 4. Homogenization of integrated water vapour time series using twin GNSS stations and vertical step offsets (Tong Ning) Continuation of Session 7. Height and Geoid 5. Assessment of Multi-Mission Sea Level Anomaly Grids in the Baltic Sea Using SWOT and In Situ Observations (Hazel Thirsha Joseph Paulraj) 6. Development towards continuous dynamic vertical reference for maritime and offshore engineering by applying geodetic and machine learning strategies (Artu Ellmann)
10:30 – 11:00	<i>Coffee break</i>
11:00 – 13:00	Session 10. Future for Geodesy 1. Towards a fully integrated gravity change rate model for Fennoscandia (Mirjam Bilker-Koivula) 2. Measuring height differences with atomic clocks: an overview (Tobias Nilsson) 3. Development of optical clock technologies at RISE (Israel Rebolledo) 4. State of the Art Time and Frequency Transfer (Jan Johansson) Closing Session • Working Group chairs assignment • President election (by Presidium members) • Speech of the newly elected President • Resolutions and Closing
13:00 – 14:00	<i>Buffet lunch</i>