

NKG summer school "From Struve to the Space" in Tartu, August 25-29, 2025

Monday, August 25 19:00-22:00	<i>Arriving in Tartu</i> <i>Meeting point: Restaurant Munchen</i>
Tuesday, August 26	Topic of the day: Geodesy and the Sea
8:30-9:00	<i>Registration and coffee</i>
9:00-9:15	Martin Lidberg (Sweden): Welcome address by the President of the NKG
9:15-10:45	Lecture 1 - Holger Steffen (Sweden): Glacial isostatic adjustment and relative sea level rise in northern Europe
10:45-11:00	<i>Coffee break</i>
11:00-11:45	Lecture 2 - Artu Ellmann (Estonia): Challenges in Marine Geodesy
11:45-13:15	Lecture 3 - Jonas Ågren (Sweden): Geoid based chart datums
13:15-14:00	<i>Lunch</i>
14:00-14:45	Lecture 4 - Sander Varbla (Estonia): Combining marine geoid models with the national vertical datums in coastal regions
14:45-16:00	Lecture 5 - Ole B. Andersen (Denmark): Modern satellite altimetry for quantifying sea level rise
16:00-16:15	<i>Coffee break</i>
16:15-17:00	Lecture 6 - Aleksei Kupavõh (Estonia): SWOT altimetry for geodetic applications
17:00-19:30	<i>Poster session followed by Icebreaker</i>
Wednesday, August 27	Topic of the day: Struve and Space
8:30-9:30	<i>Departure of bus to Tõravere</i>
9:30-9:40	Antti Tamm (Estonia): Welcome address by the director of Tartu Observatory
9:40-10:15	Lecture 7 - Antti Tamm (Estonia): Geodesy of the Universe: from Struve to Einasto
10:15-11:00	Lecture 8 - Hannu Koivula (Finland): Metsähovi geodetic VLBI and SLR
11:00-11:45	Lecture 9 - Tõnu Viik (Estonia): F.G.W. Struve and the Measurement of the Earth
11:45-12:15	<i>Coffee break</i>
12:15-14:00	Guided tour in the Observatory (Tõravere)
14:00-16:00	<i>Lunch (Vapramäe Forell: https://www.vapramae.ee/menyy/)</i>
16:00-16:45	<i>Departure of bus to Tartu</i>
16:45-17:45	Guided tour in the Struve's Observatory (Tartu)
19:00-21:00	<i>Free time (Meeting point: Restaurant Munchen)</i>

Thursday, August 28	Topic of the day: Contemporary GNSS Positioning Challenges
9:15-10:45	Lecture 10 - Zahidul Bhuiyan (Finland): Keynote speaker - Adapting to GNSS signal interference - challenges and opportunities
10:45-11:00	<i>Coffee break</i>
11:00-11:45	Lecture 11 - Søren Reime Larsen (Denmark): GNSS receivers -> processing and consequences of interference
11:45-12:30	Lecture 12 - Kibrom Ebuy Abraha (Sweden): Real-Time GNSS Data Integrity: Foundations, Challenges, and Emerging Approaches
12:30-13:15	Lecture 13 - Stefan Söderholm (Finland): GNSS Jamming and Spoofing: Detection and Mitigation
13:15-14:15	<i>Lunch</i>
14:15-16:15	Exercises - Miluță FLUERAȘ (Romania): GNSS interference -> detections and consequences
16:15-16:30	<i>Coffee break</i>
16:30-17:15	Lecture 14 - Anders Martin Solberg (Norway): Jammertest – Plans and Ideas; cases and results
17:15-18:00	Lecture 15 - Anders Martin Solberg and Casper Jepsen (Norway/Denmark): Perspectives on GNSS interference (in the NKG area)
19:00-21:00	<i>Dinner</i>
Friday, August 29	Topic of the day: Machine Learning Strategies in Geodesy
9:00-10:30	Lecture 16 - Benedikt Soja (Switzerland): Machine learning strategies in geodetic applications
10:30-11:45	Lecture 17 - Nicole Delpeche-Ellmann (Estonia): Machine learning methods for forecasting ocean dynamics
11:45-12:00	Closing the Summer School
12:00-13:00	<i>Lunch</i>
13:15-13:30	<i>Shuttle to Tartu airport</i>
15:05	<i>Flight Tartu - Helsinki</i>

- Registration:** A separate online sheet to be filled:
<https://www.emu.ee/en/events/nkg-summer-school-from-struve-to-the-space>
- Registration fee:** 350 EUR (early bird), 400 EUR after July 1. The registration fee covers lunches, coffee breaks, an Icebreaker event, one dinner, and an excursion to Tõravere
- Hotel:** 67 EUR/night Hotel Dorpat*** (<https://dorpat.ee/en>). Valid until July 25.
Reservations should be sent via email to: info@dorpat.ee
When booking a room, use the keyword "NKG Summer School"
- Deadline:** August 1, 2025 (for registrations and payments).

Participants should have their own laptop for exercises.