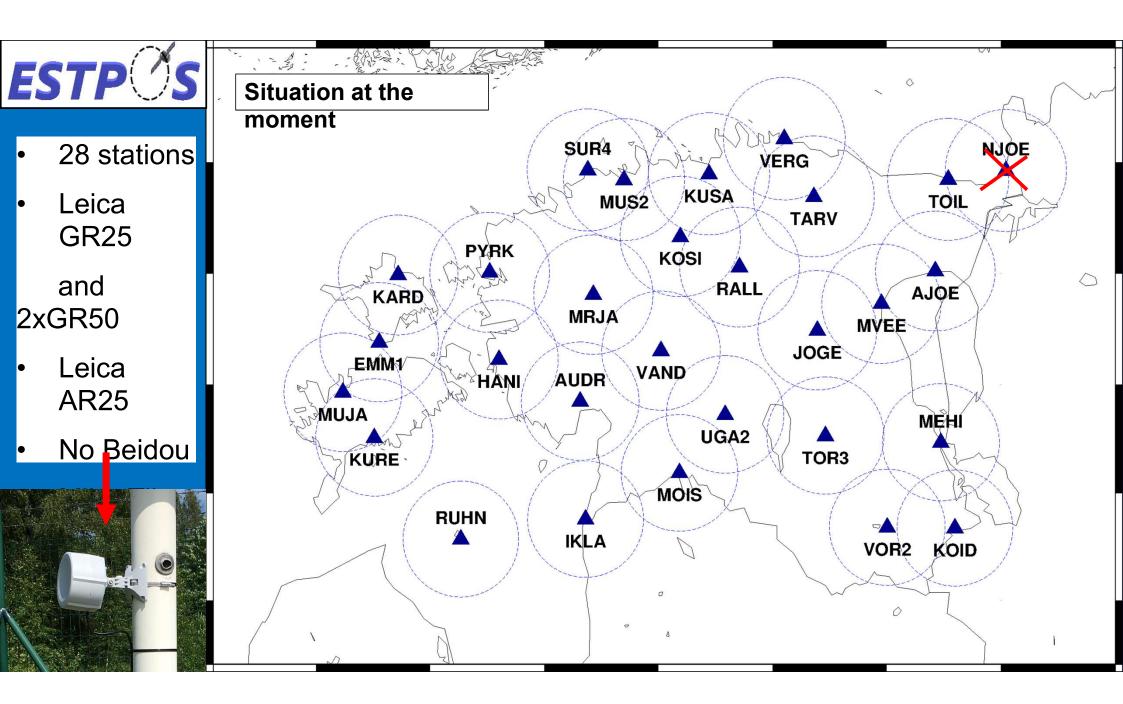
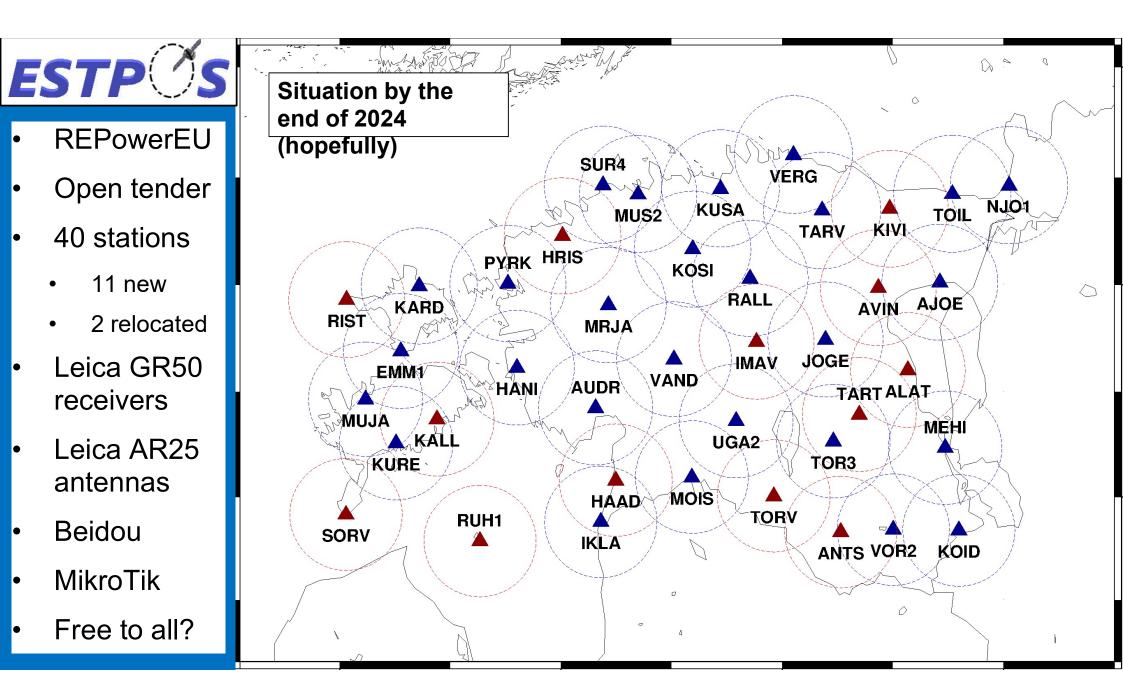


National report Estonia 2024





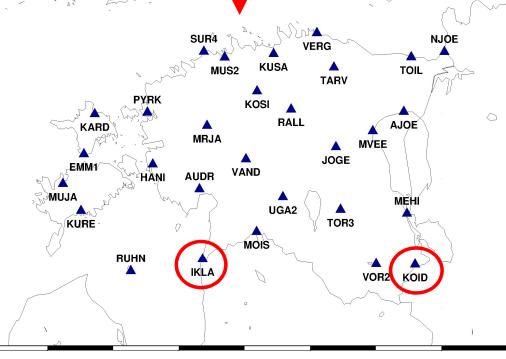
ESTPOS data quality and GNSS interference monitoring

- Leica SpiderQC and X-Pee
- Leica GR50 + Interference Toolbox

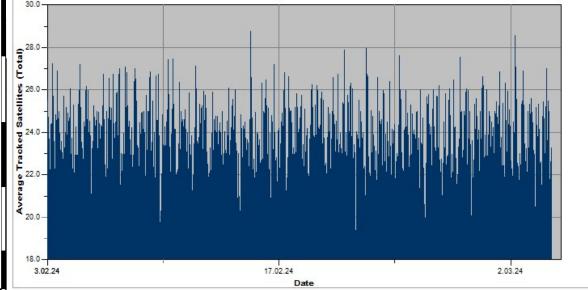
Site Name \$	Site Code \$	Satellite System 🗢	Receiver \$	Quality Plots \$	File Summary \$	File Availability \$	Current Status* ¢	Leica SpiderQC v7.8 Quality Report			
AJOE	AJOE	GPS GLONASS Galileo	LEICA GR25	AJOE	AJOE	AJOE	0				
AUDR	AUDR	GPS GLONASS Galileo	LEICA GR25	AUDR	AUDR	AUDR	0	Program Run:	2023/11/14 11:25:34.55		
EMM1	EMM1	GPS GLONASS Galileo	LEICA GR25	EMM1	EMM1	EMM1	0	File Details:			
HANI	HANI	GPS GLONASS Galileo	LEICA GR25	HANI	HANI	HANI	0		ajoe318100.23o ajoe318100.23n		
IKLA	IKLA	GPS GLONASS Galileo	LEICA GR50	IKLA	IKLA	IKLA	0				
JOGE	JOGE	GPS GLONASS Galileo	LEICA GR25	JOGE	JOGE	JOGE	0	GLONASS Navigation File:	ajoe318100.23g		
KARD	KARD	GPS GLONASS Galileo	LEICA GR25	KARD	KARD	KARD	0	Galileo Navigation File:	ajoe318100.231		
KOID	KOID	GPS GLONASS Galileo	LEICA GR50	KOID	KOID	KOID	0	Quality Testing:	Pass		
KOSI	KOSI	GPS GLONASS Galileo	LEICA GR25	KOSI	KOSI	KOSI	0	Station Details:			
KURE	KURE	GPS GLONASS Galileo	LEICA GR25	KURE	KURE	KURE	0	Martin Martin Martin		1005011001	
KUSA	KUSA	GPS GLONASS Galileo	LEICA GR25	KUSA	KUSA	KUSA	0	Marker Name/Number: Observer/Agency:	AJOE	10653M001 ELB	
MEHI	MEHI	GPS GLONASS Galileo	LEICA GR25	MEHI	MEHI	MEHI	0	Receiver #/Type/Vers:	1831301	LEICA GR25	4.70/6.525
MOIS	MOIS	GPS GLONASS Galileo	LEICA GR25	MOIS	MOIS	MOIS	0	Antenna #/Type: Antenna Offsets (HEN):	726136 0.000	LEIAR25.R4 LEIT	
MRJA	MRJA	GPS GLONASS Galileo	LEICA GR25	MRJA	MRJA	MRJA	0			0.000	0.000

AJOE Quality Plots

Site Overview | Quality Plots | File Summary | File Availability

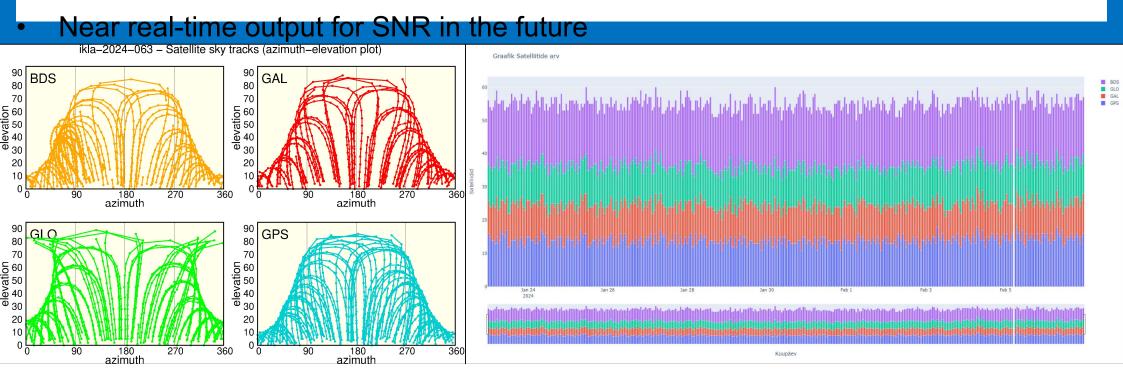


Number of Satellites (Total): The number of satellites should be 5 or greater for high accuracy positioning.



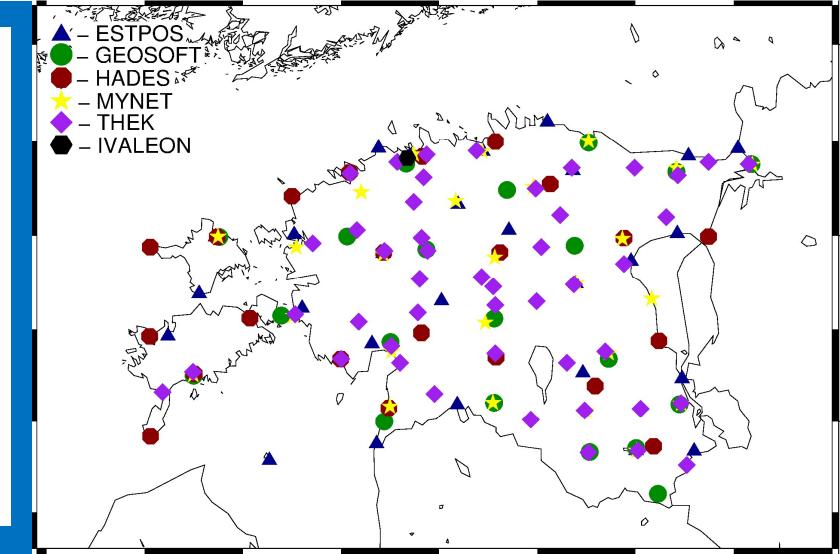
ESTPOS data quality and GNSS interference monitoring

- Anubis, Perl, Python -> output to a website
- Daily skyplots from 24h30s data
- 30-day interactive graphs based on 1h1s data (nr satellites, cycle slips, multipath, SNR, DOP)



Validation of commercial networks

- ESTPOS will be the basis
- 4+1 commercial networks
- ~140 stations
- Bernese GNSS software
- Official legislation changes are underway
- Regular inspection once a year, otherwise as is needed



GNSS computations

- Operational
 - On track, delays only due to vacation
 - ESTPOS + 11 IGS/EPN (~40 stations)
 - 99% automatic
- Repro2
 - Started and running
 - GPS week 1408 (same as repro1)
 - 2 years done, 14 to go
 - What do we upload to the FTP exactly?

Official stuff

- Since July of 2023 Land Board is officially under the rule of Ministry of Regional Affairs and Agriculture (before it was the Ministry of Environment)
- Since August of 2023 Karin Kollo has been also the acting head of the Photogrammetry department. A new department on the basis of Geodesy and Photogrammetry called the Department of Geodesy and Aerial survey was formed.
- 2025? On the basis of Land Board a new state office called Land and Spatial Board (Maa- ja Ruumiamet or MARU) will be created. It will bring together all the land and spatial data authorities from different state offices to form a new competence center