

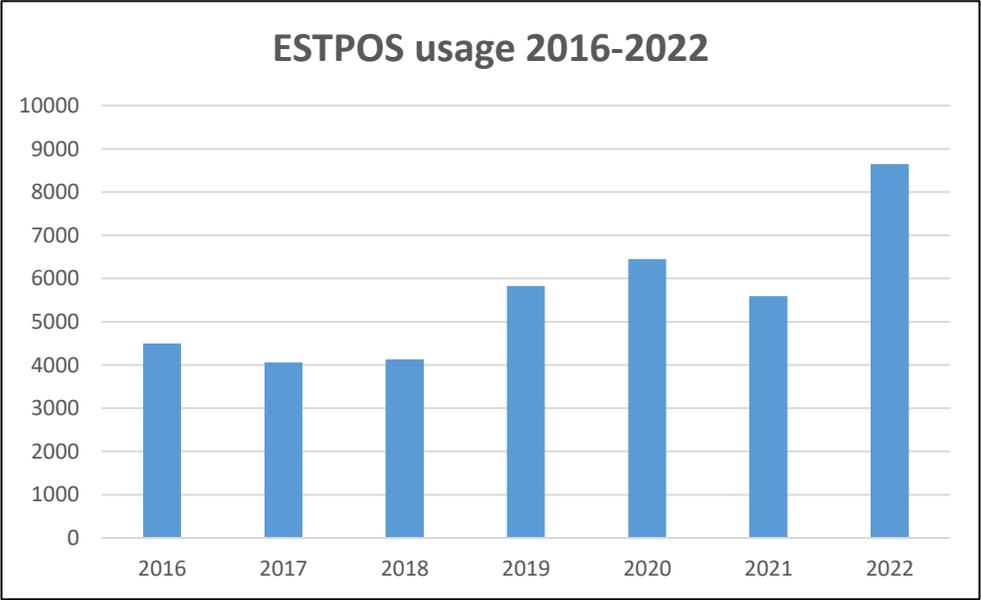
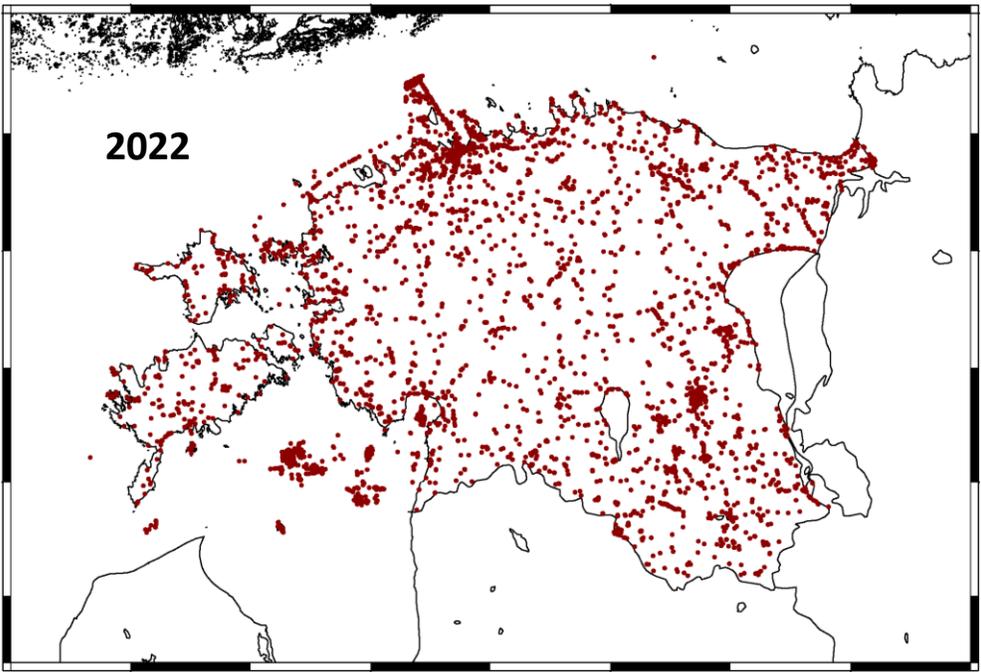
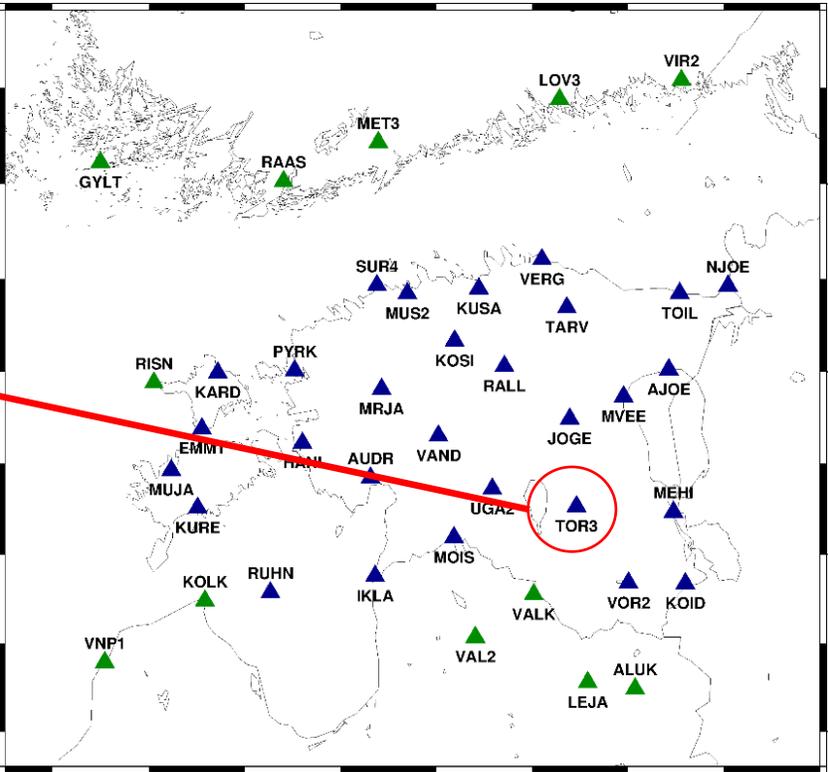


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National report of Estonia

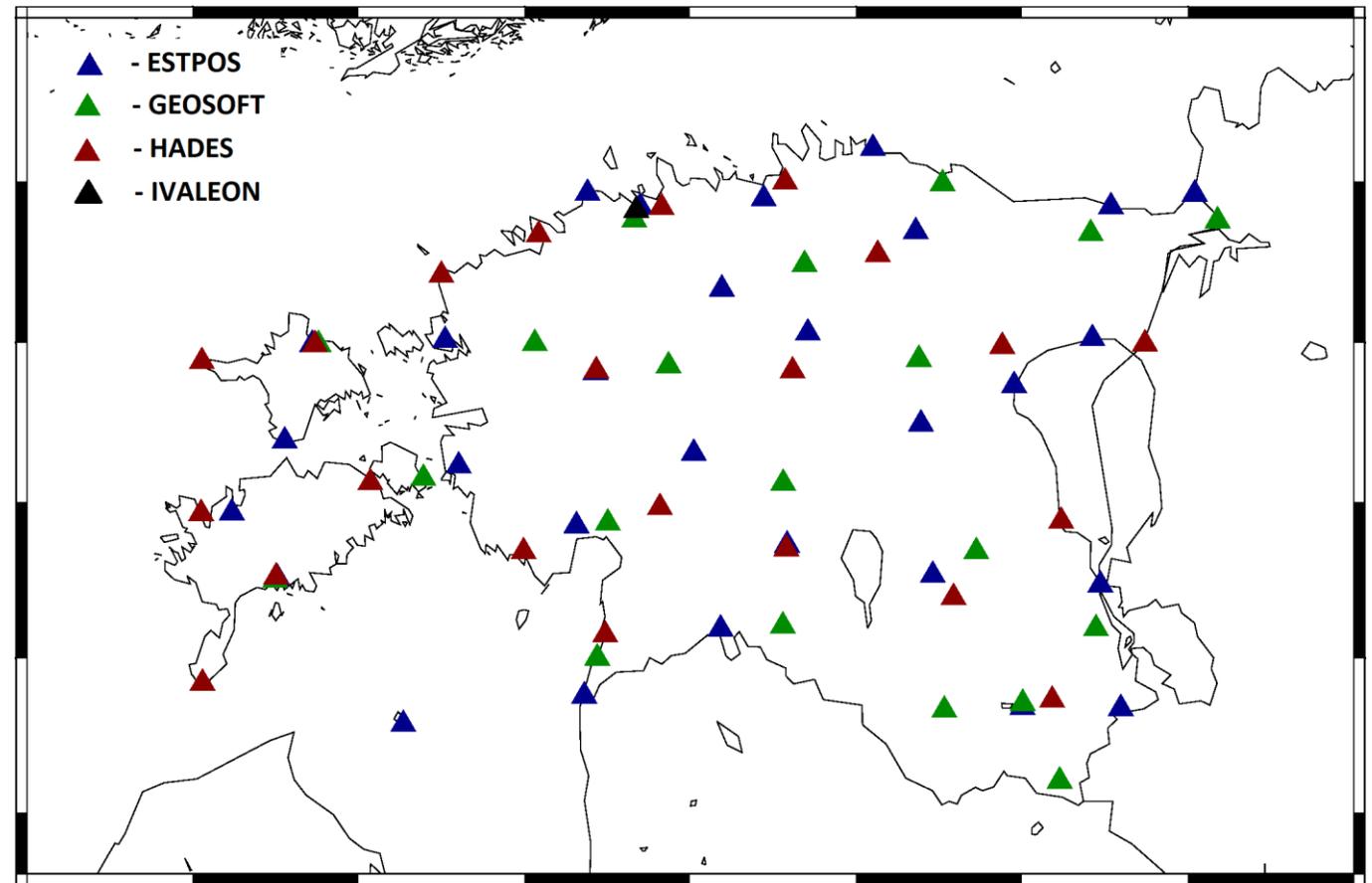
Jaanus Metsar, Karin Kollo, Andres Rüdja
Estonian Land Board

- EPN/EPOS site TOR200EST was decommissioned on 31.08.2022. New site, TOR3, was established ca 40 m south from old site and started operating on 07.10.2022.
- GNSS computations for NKG-AC are on pause since GPS week 2238. Switch to IGS20 has not been finalized yet.
- All internet connection solutions will be updated in spring 2023.
- Internal batteries were changed in the beginning of the year.

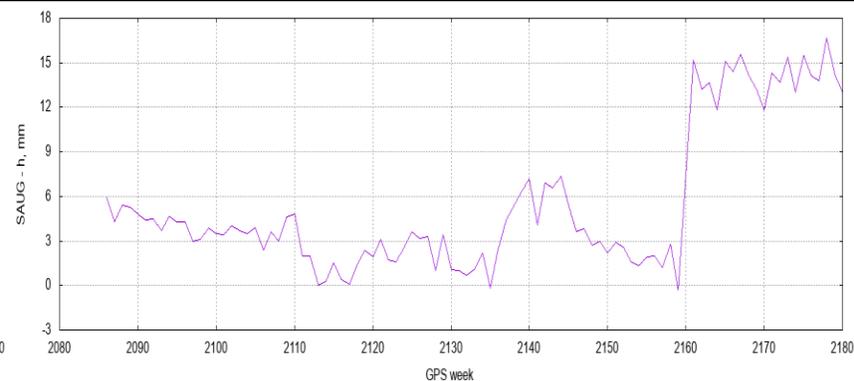
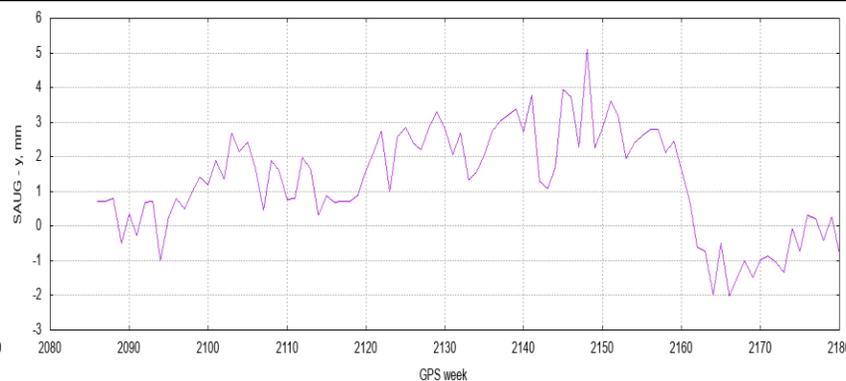
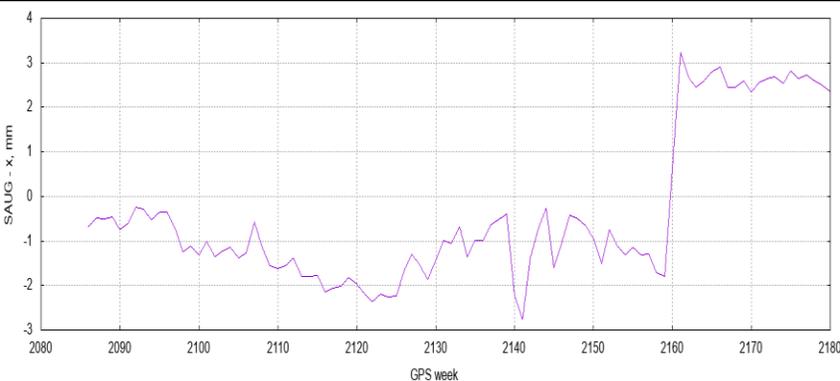


Monitoring of GNSS stations

- ESTPOS + 3 commercial networks
- Total of 72 stations
- Weekly Bernese solutions (also on pause at the moment)
- No official agreements
- No official services

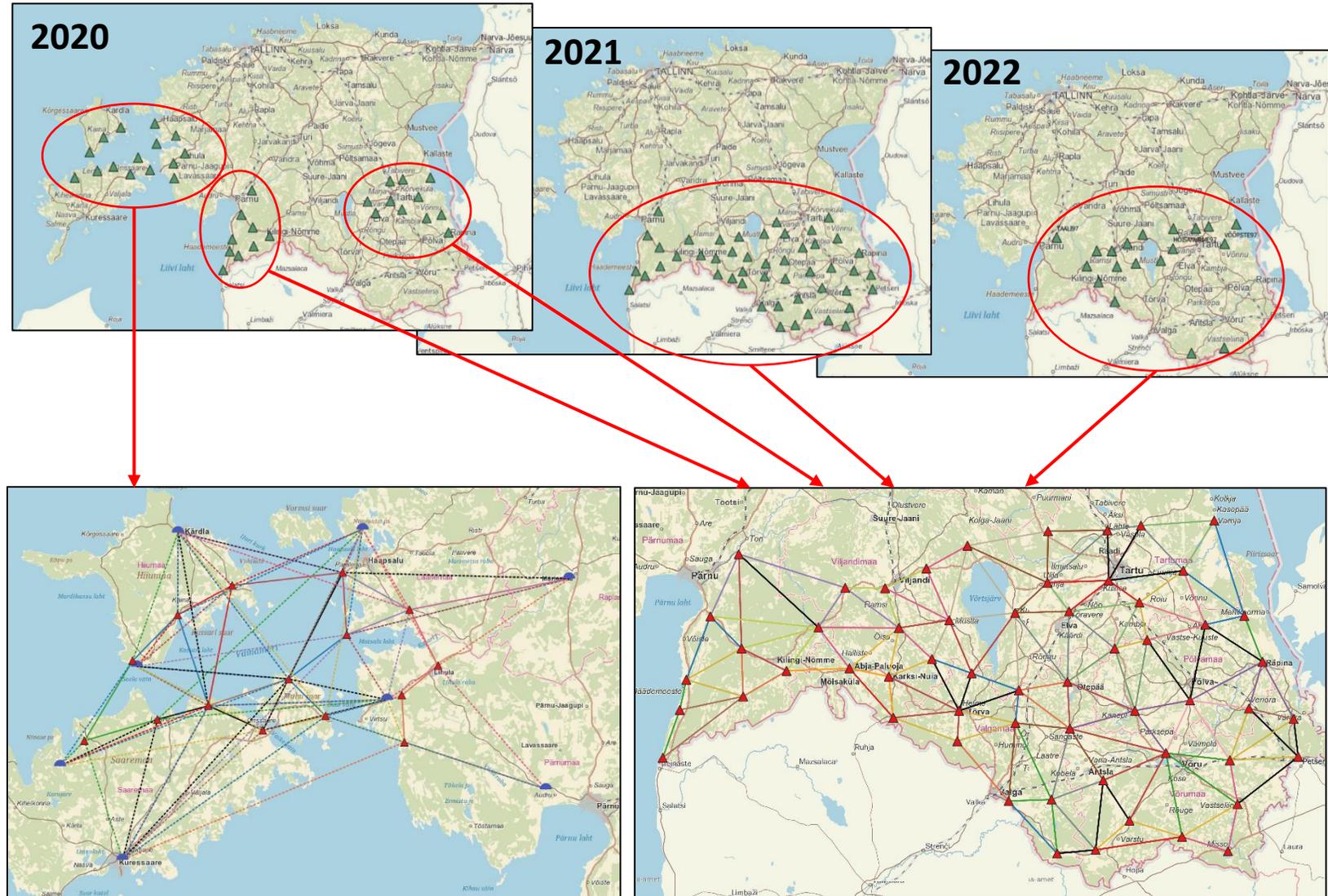


Stability of weekly solutions. L-EST97 coordinates (x, y and h).



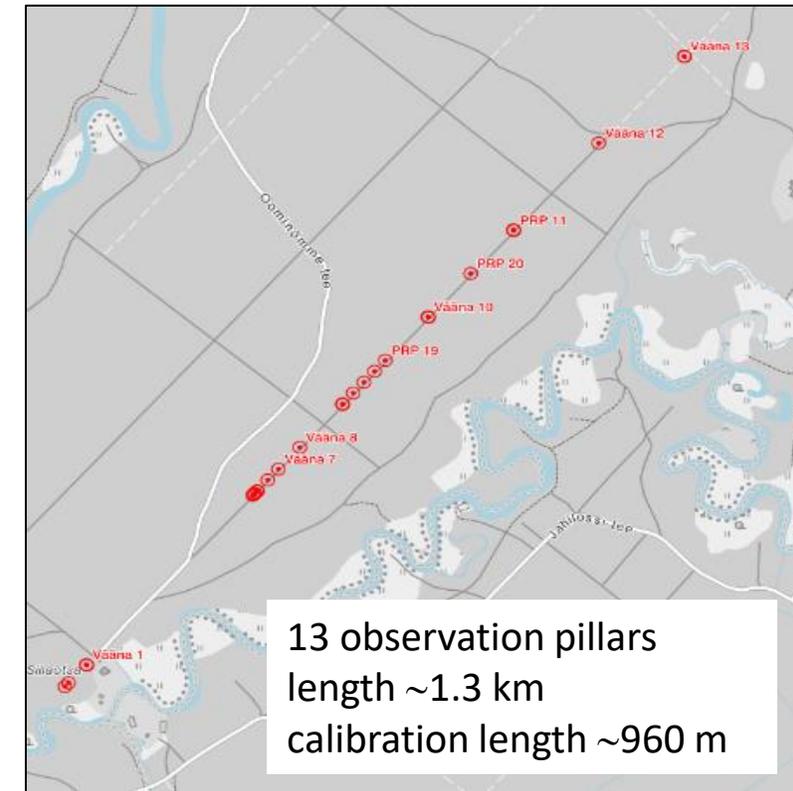
Assessment of national geodetic network

- II Order Net, test area (59 points, roughly $\frac{1}{4}$ from all)
 - Summer/fall 2020
 - GeoRefAct 2021 EE
 - Summer/fall 2021
 - Spring 2022
 - Static GNSS, 6h sessions
- In-house validation of the results is ongoing
 - Bernese GNSS software, IGB14
 - Step 1: CORS (49 / 43 days)
 - Step 2: network of static points based on Step 1



Geodetic metrology

- Calibration measurements of ELB equipment in May 2022
- New scale transfer from FGI Nummela baseline
 - Remeasurement of the baseline in May 2022 (distances in all combination, Leica TS60)
 - Calibration of TS60 at NLS Nummela baseline in August 2022
- Consultations with the Central Office of Metrology (AS Metrosert) regarding a certified metrology laboratory were started
- Several legal aspects are still open



Geodetic Point Database

- 35 000 geodetic points in the geodetic points database GPD
45% from national networks, 55% from local networks
- New web interface for GPD from July 2022
- Various transformation calculators are also now directly available via GPD
- Review of GPD data records is ongoing



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Geodeetiliste punktide andmekogu

[Otsi nime järgi](#) [Otsi GPA ID järgi](#) [Otsi koodnumbri järgi](#) [Otsi koordinaatide järgi](#) [Otsi asustusüksuse järgi](#)

Kalkulaatorid ▾

[Geodeetilised koordinaadid EUREF-EST97 - tasapinnalised ristkoordinaadid L-EST97 kalkulaator](#)

[Globaalne kalkulaator](#)

[Kohalikud kalkulaatorid - Tasapinnalised ristkoordinaadid L-EST97](#)

[EUREF-EST97 ellipsoidaalsed kõrgused - normaalkõrgused EH2000](#)

[BK77 ja EH2000 kõrguste ülemineku kalkulaator](#)

Revision of geodetic legislation

- Detailed review and update of:
 - Spatial Data Act
 - The procedure for the performance of geodetic works
 - local authorities are obliged to take decisions on local geodetic infrastructure
 - incl added methodologies of precise levelling and GNSS
 - recommendations for local geodetic networks
- Geodetic System
- GPD Bylaws

