





NATIONAL REPORT OF LITHUANIA NKG WGRF meeting

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- Harmonization of Lithuanian and Latvian geodetic systems
- ITRF transformations







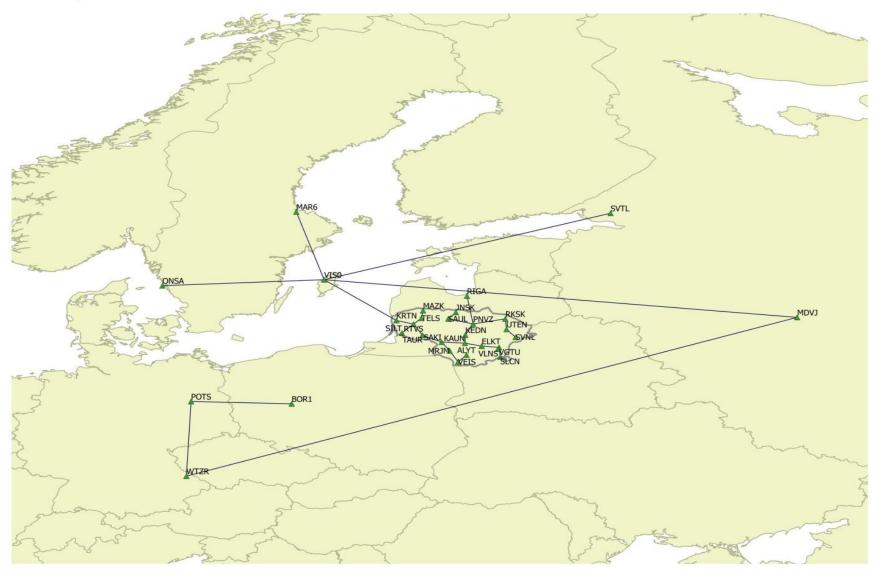


CORS Network LitPOS











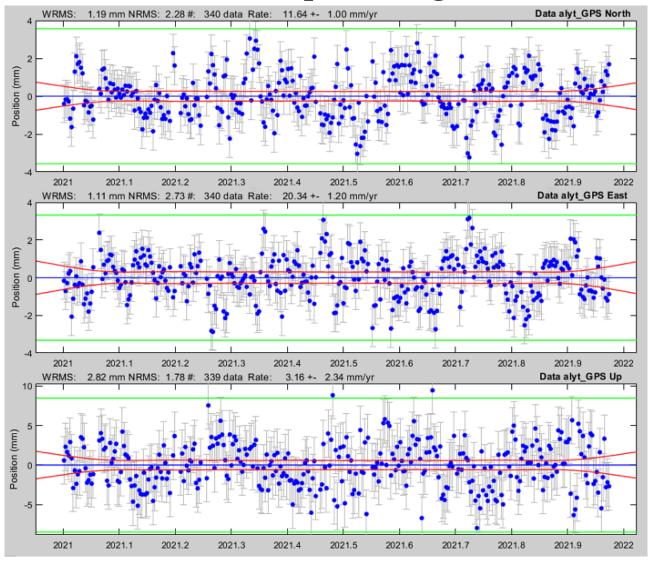
- Operational processing started from GPS week 1934.
- Currently working on **2208** week processing.
- Manual processing ⊗

• 2008-2021 weekly SINEX files (with COV matrix) was uploaded to EPN ftp server with intention to fill the gap of Lithuania in European dense velocity field.

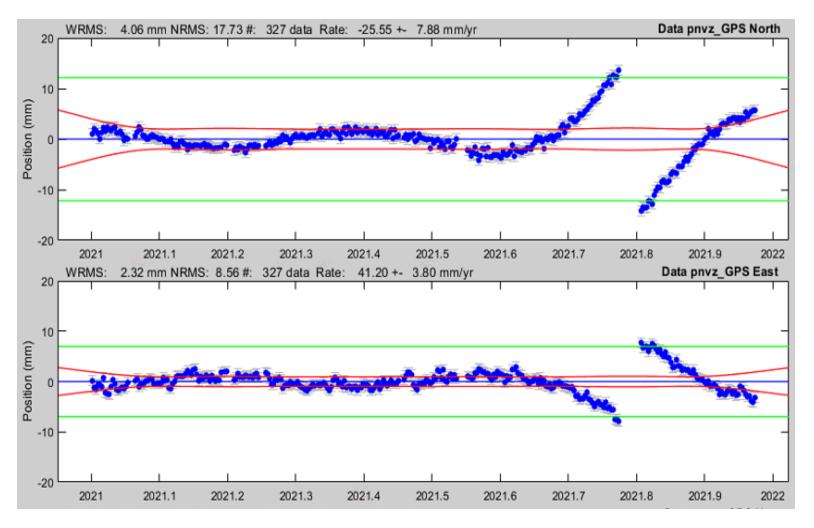


- Operating system used **Windows 10 education**.
- Software: **BSW5.2** update **2021-03-27**.
- Network: **43** (34+6+3) stations +**10** IGS/EPN fiducial stations.
- GNSS: ALL
- Antennas PCV: absolute and individual calibration
- Precise orbits: **CODE**
- Tropospheric refraction: VMF
- Ocean tide model: FES2004
- Baselines processing strategy: **OBS-MAX**
- Ambiquities resolution strategy: QIF
- Cut-off angle: 3, 10, 25
- Products: Daily and weekly SNX (NEQ + COV)
- Coordinates Time Series: analysis by GITSA, FODITS, TSview



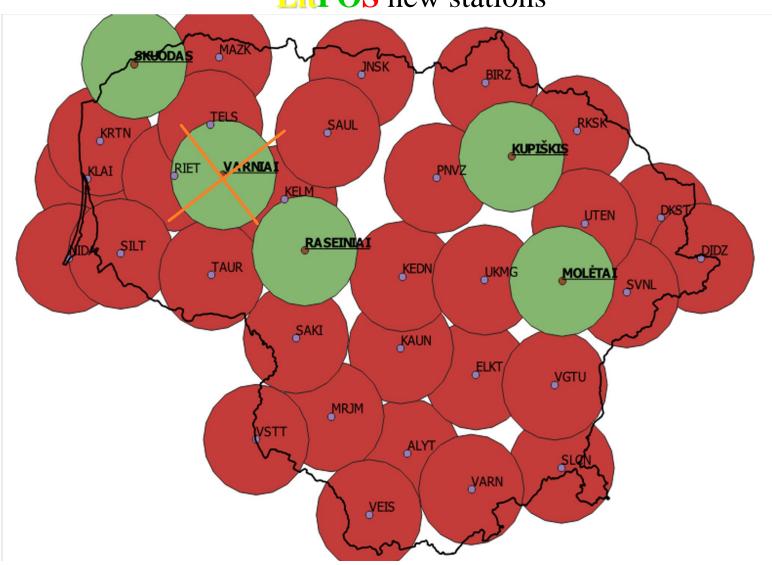








LitPOS new stations







Latvia – Lithuania border

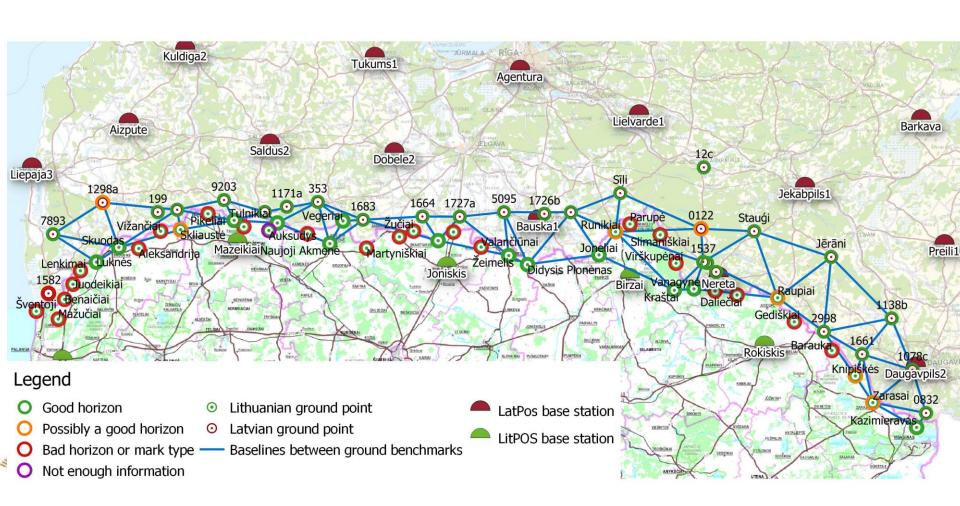






Harmonization of Lithuanian and Latvian geodetic systems in border areas

Scheme of Lithuanian and Latvian cross border GNSS observations







ITRF transformations







NKG2020 transformation



Future plans

 Second Re-measurement of the Ird order Vertical Network of Lithuania in 2023-2025 (1800 km)



Thank You for your attention!