

National Report of Finland

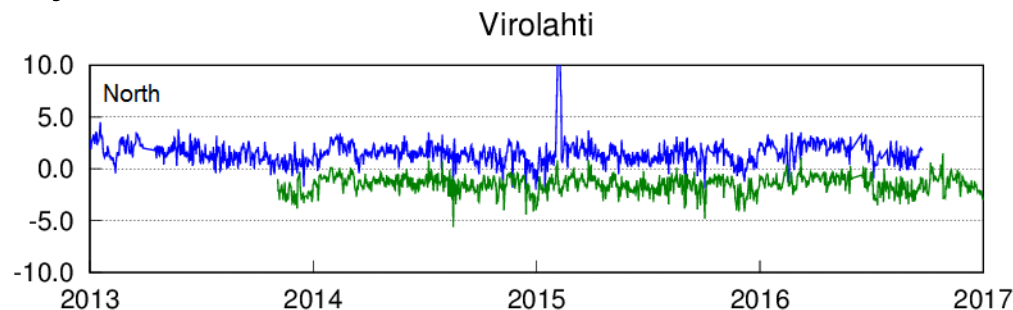
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EUREF2017 Symposium, Wroclaw, Poland, May 17-19, 2017



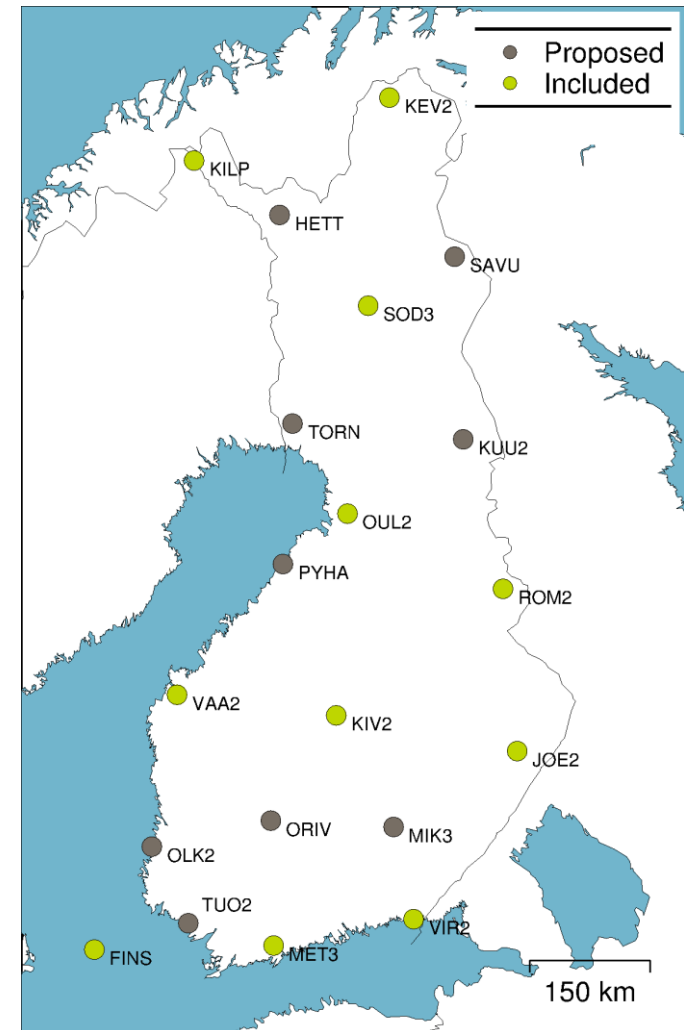
FinnRef CORS network status

- Now: 20 GNSS stations + 4 GPS-only stations (old EPN stations METS, VAAS, JOEN and SODA)
 - 9 old GPS-only stations shut down in Nov 2016
 - Week roll-over bug at GW1922 in Ashtech receivers
 - We have 2.5 year overlapping data
- Future: will be **densified to 40-50 station network**
 - **high class stations**, e.g. monumentation on the bedrock,...
 - Ready in the end of 2018/mid-2019



FinnRef stations to EPN/IGS

- Proposed all 20 **new GNSS stations to EPN** (Dec 2016)
 - 11 **accepted**, 9 waiting
- **Proposed MET3 and SOD3 for IGS** (Mar 2017)
 - **accepted**



New Geodesy strategy 2017-2026

- New vision and strategy for 2017-2026 **to be published soon**
- Some keywords:
 - semi-dynamic reference frame, dynamic reference frame
 - active reference frame definitions
 - Metsähovi geodetic research station – UN resolution
 - New land uplift and geoid models and transformations
 - procedures to maintain national height system
 - Metrology – terrestrial and vertical reference frames and gravity systems



Metsähovi Satellite Laser Ranging (SLR)

- New observatory building for the satellite laser ranging (SLR) has been built
- New telescope has been installed
- Some final installations are ongoing



Metsähovi VGOS

- VLBI Global Observing System (VGOS) **telescope procurement contract signed in Nov. 2016**
- Infrastructure at Metsähovi to be upgraded for VGOS in 2017/2018
- Installation of the telescope in Metsähovi summer 2018
- Expected to be in **routine operation in 2019**



Picture and image editing by Markku Poutanen

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