

Hungarian steps for further usage of GNSS data in NWP models and assimilation



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- [EGVAP team](#)
- [EGVAP members](#)
- [EGVAP advisory bodies](#)
- [GPS/geodetic partners](#)

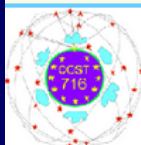
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- [Programme proposal](#)
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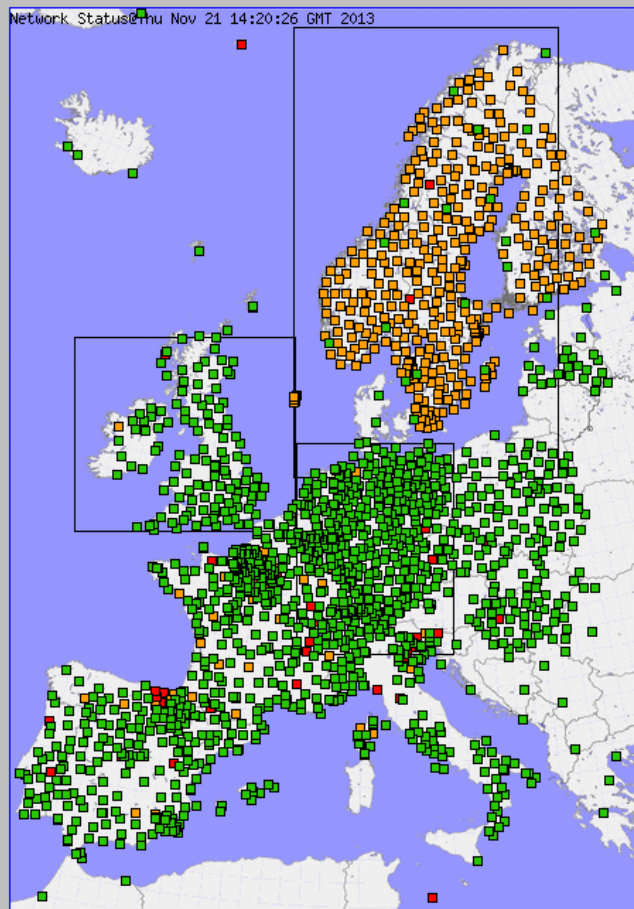
- [Links](#)



Network Status

In the (clickable) figure below the locations of the latest estimates are shown. By clicking on a coloured square the time series of IWV and ZTD will be presented in a separate window.

| Arrival time window of Observations | |
|--|---------------------------------|
| | No Data or before 11/19 14h |
| | between 11/21 11h and 11/21 14h |
| | between 11/21 08h and 11/21 11h |
| | between 11/21 08h and 11/19 14h |



Statistics and Log-files

[Latency \(by D. Offler\)](#)
[Comparison with NWP](#)
[Comparison of SuperSites](#)
[Station log-files](#)

Status per Region

[Global](#)
[Europe](#)
[Central Europe](#)
[Scandinavia](#)
[United Kingdom](#)

Status per Processing Center

[ASI](#)
[BKG](#)
[GFZ](#)
[GOP1](#)
[GOPG](#)
[IGE](#)
[KNM3](#)
[KNM4](#)
[LPTR](#)
[LPT](#)
[METO](#)
[NGAA](#)
[ROBH](#)
[SGN1](#)
[SGN](#)

Status per Processing Center (TEST)

[ASI1](#)
[BKGH](#)
[GOP2](#)
[GOP3](#)
[IES2](#)
[IGE2](#)
[METG](#)
[METR](#)
[NOAA](#)
[NOAN](#)
[ROBQ](#)
[ROBT](#)
[SGNC](#)
[UL01](#)
[WUEL](#)

Status per Processing Center (COMB)



FÖMI



OMSZ



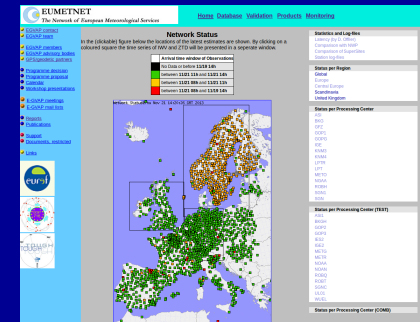
BME

E-GVAP

Current state of data
flow in Hungary

11 December, 2013

E-GVAP Expert Meeting /
Copenhagen, Denmark

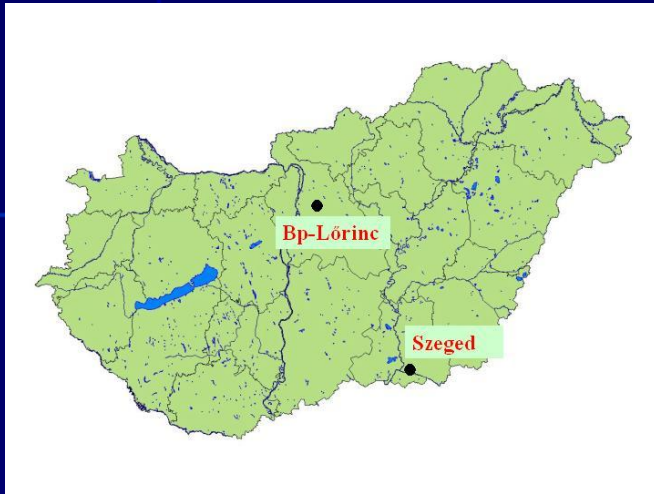




Numerical Modelling Division (Staff) – *Gergely Bölöni (Head)*

- Data assimilation from Nov. 2013
- ZTD data in E-GVAP format included all operating GPS receivers in Hungary (35)
- Applied NWP model type: AROME 2.5 km grid distance
- 3DVAR assimilation method
- Period: May-June 2013
- Verification: objective scores + case studies
- Already done:
 - converting data to E-GVAP format (by Szabolcs Rózsa, BME)
 - adaptation of bias correction and tests for assimilation (Máté Mile, OMSz)

Workplans in the near future



Installation of a GPS receiver in the early 2014

Flat terrain, 2 km from inhabited area

Best equipped observatory of OMSz (in point of remote sensing)

Comparisons and/or verifications of results with microwave radiometer

11 December, 2013

E-GVAP Expert Meeting /
Copenhagen, Denmark