



National Report Hungary

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CORS network in Hungary



- GNSSnet.hu: official spatial reference and RTK data provider.
- Currently 35+19 stations in use (35 in Hungary).

GPS+GLO only for 16 stations.

- Ongoing modernizations: all 35 stations will be multi-GNSS capable by the end of the year.
- Last year a geo-redundant server infrastructure has been established for robust Network RTK service.
- 7 new IGRS style stations installation in the southern part of the country







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Online transformation service

- Ensuring standard coordinate transformation in Hungary
- Reference systems: ETRS89-ETRF2000 <-> HD72/EOMA
- New version of "online EHT" based on open-source PROJ
- Web services (API)

Geodetic transformation:







Combination: GNSS, InSAR, Levelling

- INGRIM project (more details in previous presentaion by Ambrus Kenyeres)
- 9 IGRS stations (integrating GNSS, InSAR and levelling) now installed
- Aiming the development of the height reference system using satellite technologies







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Contribution to EUREF activities

EPN stations:

- -BUTE00HUN (GPS+GLO+GAL+BDS)
- -BME100HUN (GPS+GLO+GAL+BDS)

-PENC00HUN (GPS+GLO)

-SPRN00HUN (GPS+GLO)

-OROS00HUN (GPS+GLO+GAL+BDS)

-ZZON00HUN (GPS+GLO+GAL+BDS)

EPN densification:

- Processing
- website: epnd.sgo-penc.hu
 - Time series, Velocities, Uncertainties, Thematic maps, etc.

SGO - Analysis Center:

- Temporary personal changes
- Bernese 5.4 upgrade still in process



GIÚ



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GEOGRÁFICO NACIONAL

Gellerthegy reference point

EUREF 2023

May 23, 2023 - May 26, 2023

- Origin of historical stereographic projection
- Relation to the map projection (EOV) in use today: the meridian passes through the point has the longitude of the projection center. (easting: 0.000)
- Previously, there was no GNSS measurement because a tree blocked the satellite signals from reaching the receiver. (unkown ETRS89 coordinates)
- A new renovation work has begun making it possible to connect the point to Passive GNSS Network (OGPSH) and to check the alignment of the HD72-ETRS89 transformation.



		Grid (EOV)		coordinates	
False easting = 650 000 m			easting	northing	
_	HD72		650 000.000*	238 104.727	_
 Symposiur	transformed from ET	RS89	649 999.971	238 104 727 per defin	itionem
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Thank you!

Contacts:









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