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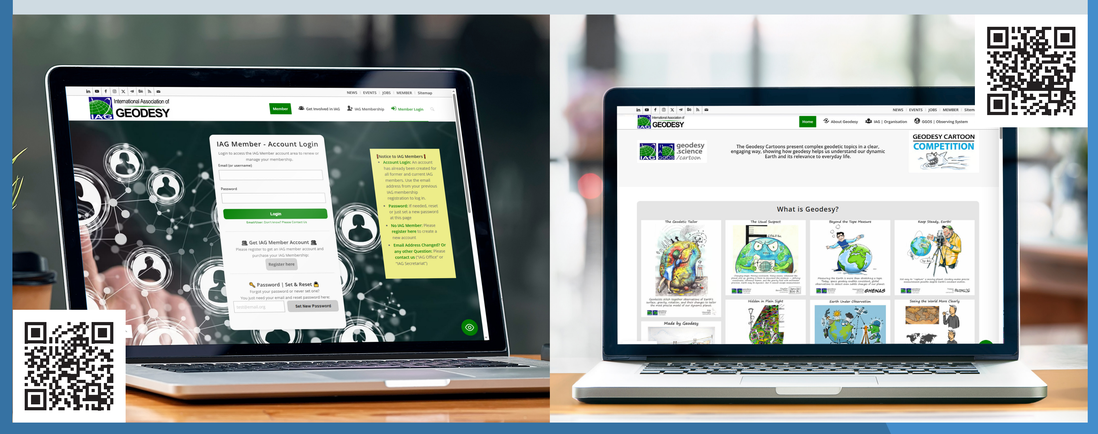
National Report - Austria

IAG & GGOS

International geodetic coordination and outreach

- Launch of the new automated IAG Membership Portal
- Redesign and publication of the monthly IAG Newsletter
- Expansion of international outreach through news platform, mailing lists and social media
- Organization of the International Geodesy Cartoon Competition 2026

  274 submissions, 119 cartoonists, 46 countries represented



EUREF AC and DC

Modernized processing and data infrastructure

- Complete modernization of processing infrastructure
- Migration to a fully containerized architecture (Podman)
- Improved reproducibility, stability and maintainability
- Transition from FTP to secure SFTP services underway

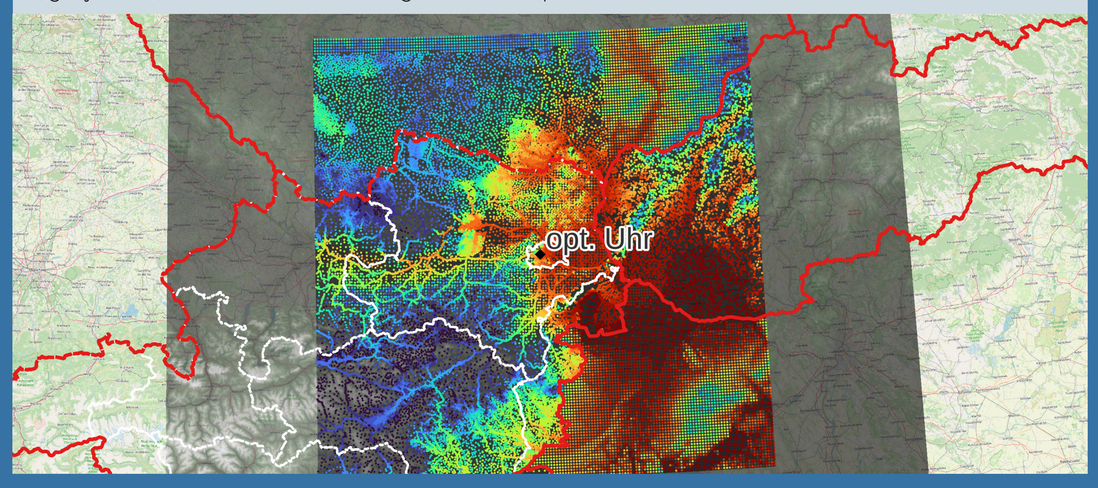


Gravity Field Modelling

Requirements for modern time and frequency metrology

- High-precision gravity potential determination for Austria's new optical clock
- Gravity field model based on:
  - ~45,000 terrestrial gravity observations
  - High-resolution terrain data
  - Regional modelling within 250 km of Vienna

~ 45,000 terrestrial gravity observations (colored) and a high-resolution digital terrain model (greyscale) used to calculate the gravitational potential.



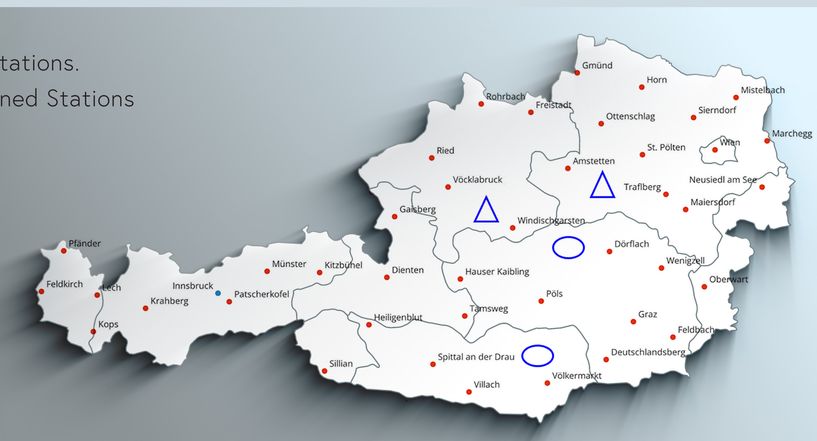
APOS – Austrian Positioning Service

Continuous expansion of Austria's GNSS reference network

- Network of 42 permanent GNSS reference stations
- Two new stations added: FRIE and MOOS
- Further network expansion planned
- New monitoring dashboards provide:

  Real-time data monitoring, Network status overview, Ionospheric activity indicators, Accuracy and performance metrics

Circles: New stations.
Triangles: Planned Stations



EUREF Symposium 2026
Blauensteiner, F., Hellerschmied, Mayer, D., Sehnal, M., Titz, H., Zahn, E.
Federal Office of Metrology and Surveying (BEV), Austria Copyright

References

Mayer-Gürr, T., Behzadpour, S., Eicker, A., Ellmer, M., Koch, B., Krauss, S., . . . Kvas, A. (2021). GROOPS: A software toolkit for gravity field recovery and GNSS processing. Computers & Geosciences, 104864.
Pock, C., Mayer-Guerr, T., & Kuehtreiber, N. (2014). Consistent Combination of Satellite and Terrestrial Gravity Field Observations in Regional Geoid Modeling: A Case Study for Austria. Marti, U. (eds) Gravity, Geoid and Height Systems.
Bauer, T., Schwabe, J. (2023): The European Alps Geoid (EAlpG) Project - a joint initiative for improved cross-border regional geoid modelling and height transformation. EGU23, the 25th EGU General Assembly.