

Bernese GNSS Software Version 5.2

The Bernese GNSS Software, Version 5.2, continues in the tradition of its predecessors as a high performance, high accuracy, and highly flexible reference GPS/GLONASS (GNSS) post-processing package. State-of-the-art modeling, detailed control over all relevant processing options, powerful tools for automatization, the adherence to up-to-date, internationally adopted standards, and the inherent flexibility due to a highly modular design are characteristics of the Bernese GNSS Software.

Features and Highlights

- Available on UNIX/Linux, Mac, and Windows platforms
- **User-friendly GUI**
- Built-in HTML-based **help system**
- Multi-session parallel processing for **reprocessing** activities
- **Ready-to-use BPE** examples for different applications:
 - PPP (basic and advanced versions)
 - RINEX-to-SINEX (double-difference network processing)
 - Clock determination (zero-difference network processing)
 - LEO precise orbit determination based on GPS-data
 - SLR validation of GNSS or LEO orbits

All examples are designed for **combined GPS/GLONASS** processing. Some of them are prepared for an **hourly processing scheme**.

- Program for automated coordinate **time series analysis** (FODITS)
- **Ambiguity resolution** also for GLONASS
- Improved troposphere and ionosphere modeling
- Estimation of **scaling factors** for crustal deformation models (grids)
- Real kinematic analysis capability
- **IERS 2010** conventions compliance
- Support of GNSS-specific receiver antenna models
- Full verification of serial number for individually calibrated antennas
- Galileo processing capability

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