The Bernese GNSS Software established a tradition as a high performance, high accuracy, and highly flexible reference multi-GNSS (currently GPS, GLONASS, Galileo, BeiDou, and QZSS) 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 (Precise Point Positioning)
  - RINEX-to-SINEX (double-difference network processing)
  - Clock determination (zero-difference network processing)
  - Ionosphere model determination
  - LEO precise orbit determination based on GPS-data
  - SLR validation of GNSS or LEO orbits

All examples are designed for combined multi-GNSS processing. Some of them are prepared for an hourly processing scheme.
- Program for automated coordinate time series analysis (FODITS)
- Ambiguity resolution also for PPP
- Extended orbit modelling capability for GNSS and LEO satellites
- Multi-GNSS processing support: advanced observation-type specific bias handling based on RINEX3/4 specifications
- GNSS- and frequency-specific receiver and satellite antenna models
- Compliance with latest IERS and IGS conventions
- Real kinematic analysis capability

Contact
Astronomical Institute
University of Bern
Sidlerstrasse 5
CH-3012 Bern
Switzerland
bernese@aiub.unibe.ch

Visit our website: www.bernese.unibe.ch