Post-processing

Rinexlab

Turn raw RINEX observations into high-precision coordinates, with no base station to deploy.

PPP, PPK, VRS

Processing methods

2 services

Positioning, base data

60 days

Base data history

10 credits

Free on sign-up

Application
hub.rinexlab.com

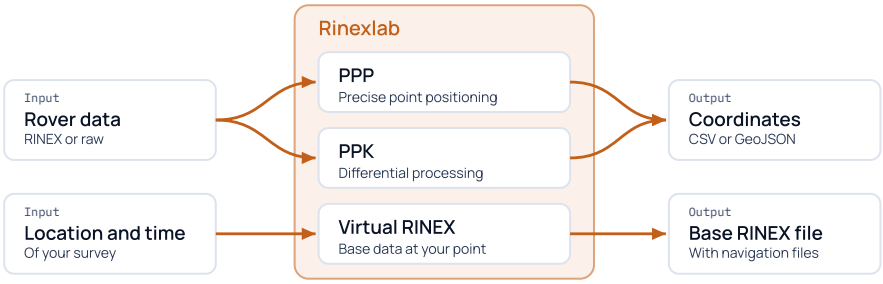
01 Overview

Rinexlab brings all GNSS post-processing methods together in one tool.

- Data is processed in the browser or through the API to get an accurate position of the rover.
- Virtual RINEX files are generated at the location and for the period of your choice.

02 How it works

Each method starts from one type of input and returns one type of output.



03 Applications

Land surveying
Surveyors set up a traverse with static sessions on the main benchmarks of the site.

Mobile mapping and UAV
Operators correct trajectories after the flight or drive.

Monitoring
The motion of engineering structures is measured with local baselines.

Research
Scientists process long sessions with PPP.

04 Specifications

	Positioning Service	Base Data Service
Method	PPP and differential processing	Virtual RINEX at your point
Input data	RINEX 2.11, 3.x, 4.x	Survey location and time
Output	Coordinates in CSV or GeoJSON	RINEX 2.11 or 3.04, with navigation files
Observation rate	Up to 10 Hz	Up to 10 Hz
Coverage	rinexlab.com/coverage	

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05 Processing performance

PPP, static 24 h	≤ 1 cm horizontal, ≤ 1.5 cm vertical, typical
PPK, kinematic	≤ 5 cm horizontal, ≤ 10 cm vertical, typical
PPK, static 24 h	≤ 5 mm horizontal, ≤ 10 mm vertical, typical
Virtual RINEX	Under 1 min of processing per hour of RINEX

06 Data formats

Observation files	RINEX 2.11, 3.x and 4.x, and raw data, up to 1 GB per file. Compressed files accepted: Hatanaka, gzip, zip
Coordinates	Decimal degrees, DMS, UTM or cartesian XYZ (ECEF)

07 Reference frames

Default	ITRF2020 at the epoch of observation
Local	NAD83(2011) (US), GDA2020 (Australia), national frames (EU countries), SIRGAS2000 (Brazil)

08 Access

Web interface	hub.rinexlab.com
API	REST, documented in OpenAPI 3.1
Keys and testing	API key management; sandbox environment