RINEX Data Visualization

For Observation and Navigation data Software: RTKLIB 2.4.2 b11. RTKPLOT

Goal for this tutorial



 Easy to examine your raw data with **RTKPLOT**

RTKLIB 2.4.2 http://www.rtklib.com/

RTKLIB 2.4.2 manual http://www.rtklib.com/prog/manual 2.4.2.pdf



RINEX 3.02 (The Receiver Independent Exchange Format Version 3.02) ftp://igs.org/pub/data/format/rinex302.pdf

5 cm

Convert BINEX to RINEX

Open RTKPLOT



Input data



Initial (default) option settings

Options									×
Time Format	www/ssss 🔻	Error Bar/Circle		OFF 💌		Mark Color 1 (1-6)			
Lat/Lon Format	ddd.ddddd 🔻	Direction Arrow		Ŧ	-	Mark Color	2 (1-6)		
Show Statistics	OFF 🔹	Graph Label		1	•	Line Color			
Cycle-Slip	OFF 🔹	Grid/Grid Label		id/Label	•	Text Color			
Parity Unknown	OFF 💌	Compass		1	•	Grid Color			
Ephemeris	OFF 💌	Scale		1	•	Background Color			
Elevation Mask (°)	0 💌	Auto Fit	OF	F	•	Plot Style		Mark	•
Elev Mask Pattern	ON 💌	Y-Range (+/-)	50		•	Mark Size		2	•
Hide Low Satellite	OFF 💌	RT Buffer Size	10	800		Font	Та	ahoma 10p	t
Max NSAT/DOP	40 💌	Coordinate Origi	n Sta	art Pos	•	Animation I	interval	10	-
Max Multipath	10 💌					Update Cyc	cle (ms)	100	
Receiver Position	Lat/Lon/Hg 💌	Lat/Lon/Hgt 35.	35.667348240 13		9.791615500	39.6	259		
Satellite System	QC Cmd teq	teqc +qc +sym +l -rep -plot							
🔽 GPS 🔽 GLO 🔽 Galileo		RINEX Opt	ot						
🔽 QZSS 🔽 SBAS 🔽 BeiDou		TLE Data D:¥	D:¥work¥RTKLIB¥rtklib_2.4.2¥data¥3le160827.txt 🗉 …						
Excluded Sats 0		TLE Sat No D:¥	D:¥work¥RTKLIB¥rtklib_2.4.2¥data¥TLE_GNSS_SAT						
(+Sn: Included)					0	ĸ		Cancel	

Settings options in RTKLIB 2.4.2 manual (p. 63**



Time Series of Satellite Visibility



Sky Plot



Number of Satellites and DOP



Number of Satellites and DOP (Change options)



Signal to Noise Ratio / Multipath / Elevation



Signal to Noise Ratio / Multipath vs Elevation

