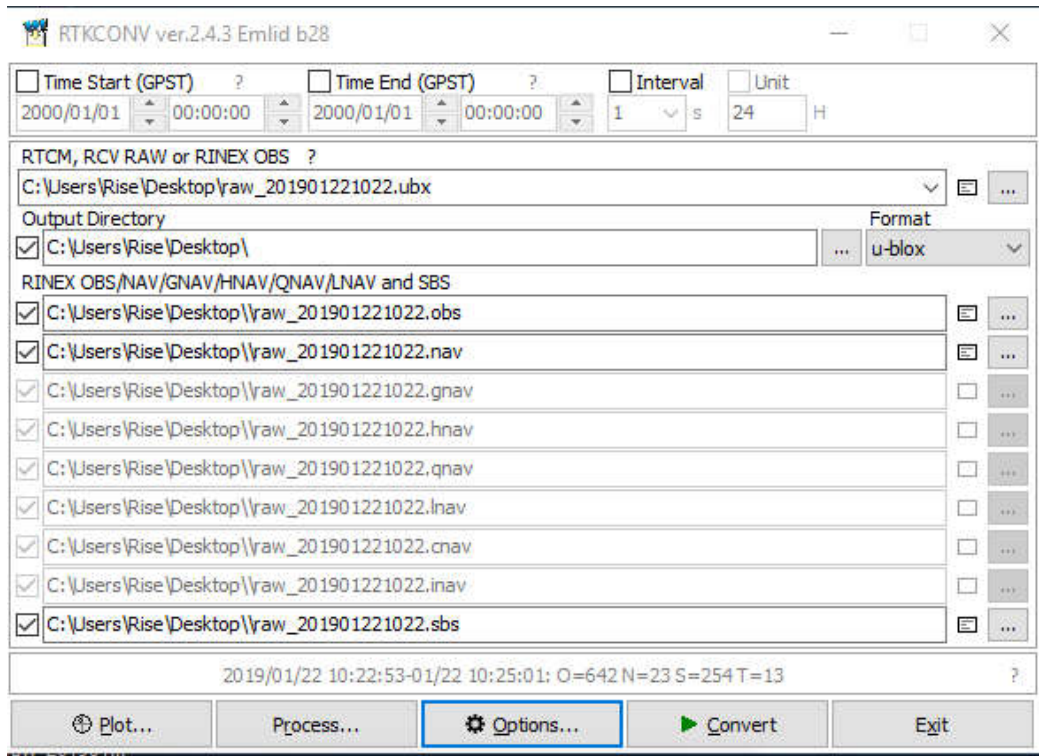


1. RTKCONV on rover raw_201901221022.ubx



RTKCONV ver.2.4.3 Emlid b28

☐ Time Start (GPST) ? ☐ Time End (GPST) ? ☐ Interval ☐ Unit

2000/01/01 00:00:00 2000/01/01 00:00:00 1 s 24 H

RTCM, RCV RAW or RINEX OBS ?

C:\Users\Rise\Desktop\raw_201901221022.ubx

Output Directory

☒ C:\Users\Rise\Desktop\ Format u-blox

RINEX OBS/NAV/GNAV/HNAV/QNAV/LNAV and SBS

☒ C:\Users\Rise\Desktop\raw_201901221022.obs

☒ C:\Users\Rise\Desktop\raw_201901221022.nav

☒ C:\Users\Rise\Desktop\raw_201901221022.gnav

☒ C:\Users\Rise\Desktop\raw_201901221022.hnav

☒ C:\Users\Rise\Desktop\raw_201901221022.qnav

☒ C:\Users\Rise\Desktop\raw_201901221022.lnav

☒ C:\Users\Rise\Desktop\raw_201901221022.cnnav

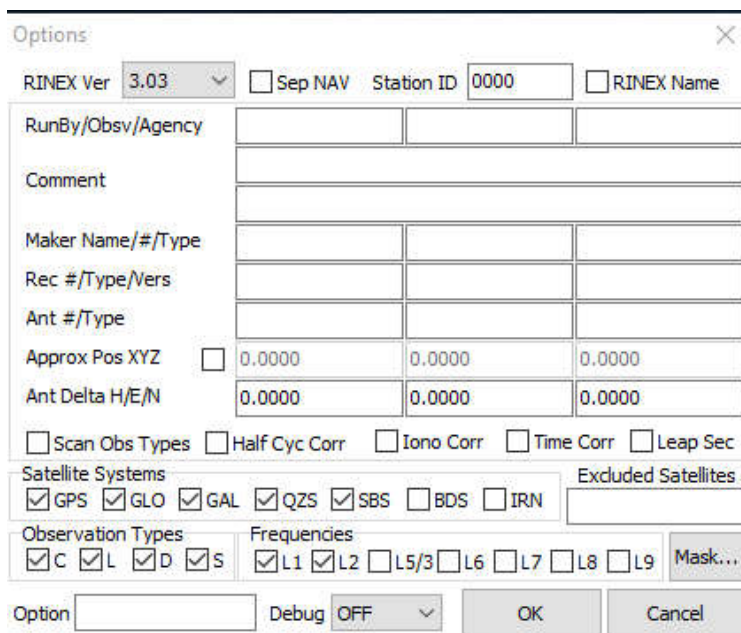
☒ C:\Users\Rise\Desktop\raw_201901221022.innav

☒ C:\Users\Rise\Desktop\raw_201901221022.sbs

2019/01/22 10:22:53-01/22 10:25:01: O=642 N=23 S=254 T=13

Plot... Process... Options... Convert Exit

2. RTKCONV - OPTIONS



Options

RINEX Ver 3.03 ☐ Sep NAV Station ID 0000 ☐ RINEX Name

RunBy/Obsv/Agency

Comment

Maker Name/#/Type

Rec #/Type/Vers

Ant #/Type

Approx Pos XYZ ☐ 0.0000 0.0000 0.0000

Ant Delta H/E/N 0.0000 0.0000 0.0000

☐ Scan Obs Types ☐ Half Cyc Corr ☐ Iono Corr ☐ Time Corr ☐ Leap Sec

Satellite Systems

☒ GPS ☒ GLO ☒ GAL ☒ QZS ☒ SBS ☐ BDS ☐ IRN Excluded Satellites

Observation Types

☒ C ☒ L ☒ D ☒ S

Frequencies

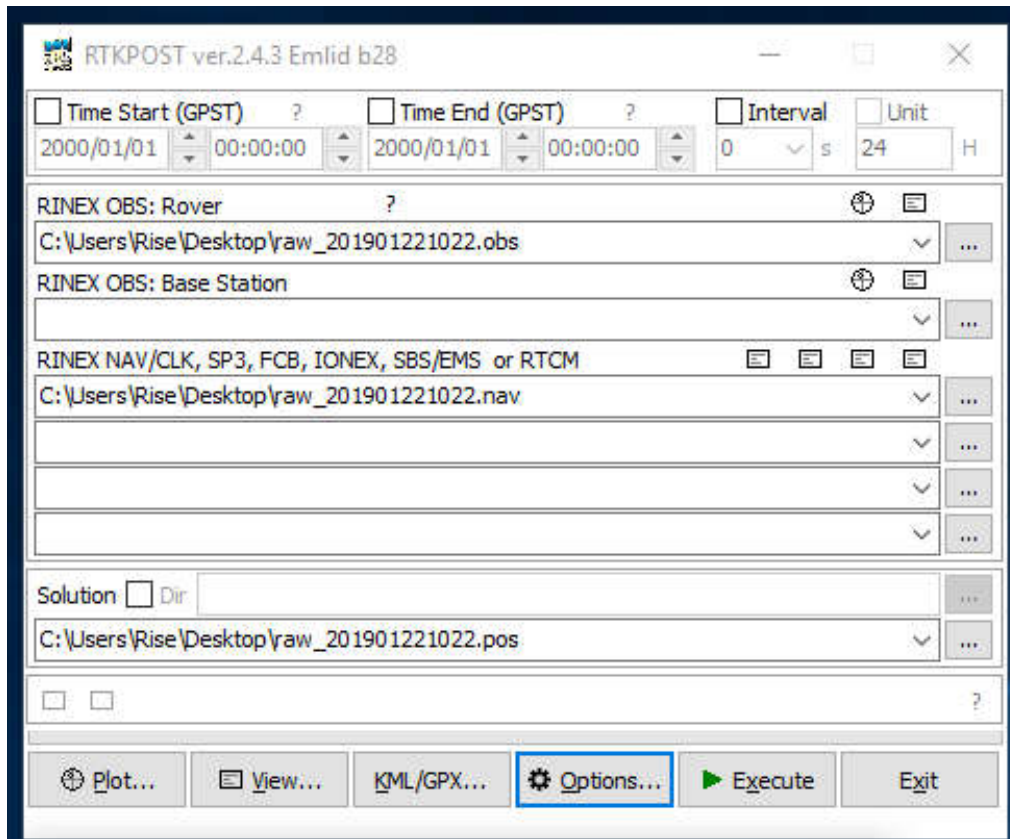
☒ L1 ☒ L2 ☐ L5/3 ☐ L6 ☐ L7 ☐ L8 ☐ L9 Mask...

Option Debug OFF OK Cancel

The outputs are

raw_201901221022.nav, raw_201901221022.obs, raw_201901221022.sbs

3. RTKPOST on rover raw_201901221022.obs



The screenshot shows the main window of the RTKPOST software. The title bar reads "RTKPOST ver.2.4.3 Emlid b28". The interface includes several input fields for time and file paths, and a row of buttons at the bottom.

Time Start (GPST) ? 2000/01/01 00:00:00 Time End (GPST) ? 2000/01/01 00:00:00 Interval 0 s Unit 24 H

RINEX OBS: Rover ? C:\Users\Rise\Desktop\raw_201901221022.obs

RINEX OBS: Base Station

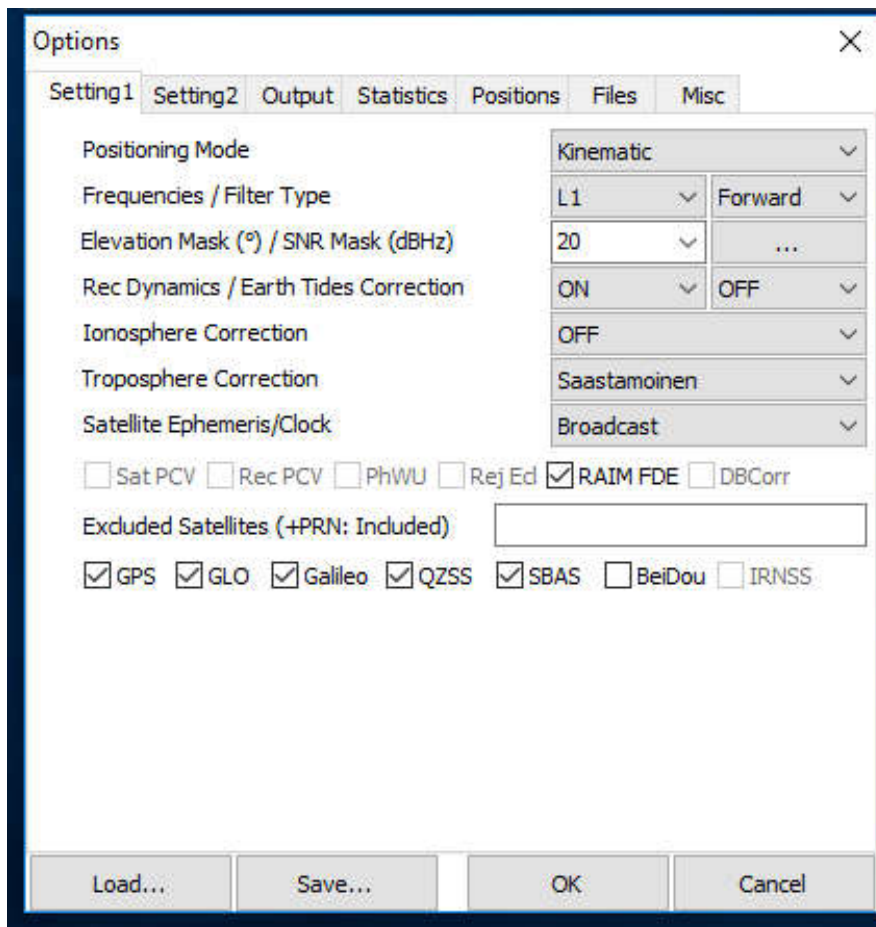
RINEX NAV/CLK, SP3, FCB, IONEX, SBS/EMS or RTCM C:\Users\Rise\Desktop\raw_201901221022.nav

Solution ☐ Dir C:\Users\Rise\Desktop\raw_201901221022.pos

☐ ☐ ?

Plot... View... KML/GPX... Options... Execute Exit

4. RTKPOST - OPTIONS – SETTING1



The screenshot shows the "Options" dialog box with the "Setting1" tab selected. The dialog contains various configuration options for the RTKPOST software.

Options

Setting1 Setting2 Output Statistics Positions Files Misc

Positioning Mode Kinematic

Frequencies / Filter Type L1 Forward

Elevation Mask (°) / SNR Mask (dBHz) 20 ...

Rec Dynamics / Earth Tides Correction ON OFF

Ionosphere Correction OFF

Troposphere Correction Saastamoinen

Satellite Ephemeris/Clock Broadcast

☐ Sat PCV ☐ Rec PCV ☐ PhWU ☐ Rej Ed ☒ RAIM FDE ☐ DBCorr

Excluded Satellites (+PRN: Included)

☒ GPS ☒ GLO ☒ Galileo ☒ QZSS ☒ SBAS ☐ BeiDou ☐ IRNSS

Load... Save... OK Cancel

5. RTKPOST - OPTIONS-SETTINGS2

RTKPOST ver.2.4.3 Emlid b28

☐ Time Start (GPST) ? ☐ Time End (GPST) ? ☐ Interval ☐ Unit

2000/01/01 00:00:00 2000/01/01 00:00:00 0 s 24 H

RINEX OBS: Rover ?

C:\Users\Rise\Desktop\raw_201901221022.obs

RINEX OBS: Base Station

RINEX NAV/CLK, SP3, FCB, IONEX, SBS/EMS or RTCM

C:\Users\Rise\Desktop\raw_201901221022.nav

Solution ☐ Dir

C:\Users\Rise\Desktop\raw_201901221022.pos

☐ ☐ ?

Options

Setting1 Setting2 Output Statistics Positions Files Misc

Integer Ambiguity Res (GPS/GLO/BDS)	Fix and	ON	OFF
Min Ratio to Fix Ambiguity	3		
Min Confidence / Max FCB to Fix Amb	0.9999	0.25	
Min Lock / Elevation (°) to Fix Amb	0	0	
Min Fix / Elevation (°) to Hold Amb	10	0	
Outage to Reset Amb/Slip Thres (m)	5	0.050	
Max Age of Diff (s) / Sync Solution	30.0	ON	
Reject Threshold of GDOP/Innov (m)	30.0	30.0	
Max # of AR Iter/# of Filter Iter	1	1	
☐ Baseline Length Constraint (m)	0.000	0.000	
Min Fix Sats / Min Hold Sats	2	2	
Min Drop Sats / Use Rcv StdDevs	20	OFF	
Max Pos Var for AR / AR Filter	0.9999	ON	
Hold Amb Var / Hold Amb Gain	0.0010	0.0100	

6. RTKPOST - Entering OPTIONS-POSITIONS

RTKPOST ver.2.4.3 Emlid b28

☐ Time Start (GPST) ? ☐ Time End (GPST) ? ☐ Interval ☐ Unit

2000/01/01 00:00:00 2000/01/01 00:00:00 0 s 24 H

RINEX OBS: Rover ?  

C:\Users\Rise\Desktop\raw_201901221022.obs  

RINEX OBS: Base Station  

RINEX NAV/CLK, SP3, FCB, IONEX, SBS/EMS or RTCM    

C:\Users\Rise\Desktop\raw_201901221022.nav  

Solution ☐ Dir 

C:\Users\Rise\Desktop\raw_201901221022.pos  

  ?

 Plot...  View...  KML/GPX...  Options...  Execute  Exit

Options

Setting1 Setting2 Output Statistics **Positions** Files Misc

Rover

Lat/Lon/Height (deg/m) 

0.000000000 0.000000000 0.0000

☐ Antenna Type (*: Auto) Delta-E/N/U (m)

 0.0000 0.0000 0.0000

Base Station

RINEX Header Postion 

35.369033016 45.000000000 4676258.9958

☐ Antenna Type (*: Auto) Delta-E/N/U (m)

 0.0000 0.0000 0.0000

Station Position File

Load... Save... **OK** Cancel

RTKPOST - ON pressing execute

RTKPOST ver.2.4.3 Emlid b28

☐ Time Start (GPST) ? ☐ Time End (GPST) ? ☐ Interval ☐ Unit

2000/01/01 00:00:00 2000/01/01 00:00:00 0 s 24 H

RINEX OBS: Rover ?

C:\Users\Rise\Desktop\raw_201901221022.obs

RINEX OBS: Base Station

RINEX NAV/CLK, SP3, FCB, IONEX, SBS/EMS or RTCM

C:\Users\Rise\Desktop\raw_201901221022.nav

Solution ☐ Dir

C:\Users\Rise\Desktop\raw_201901221022.pos

☐ ☐ error : no rinex obs file (base station) ?

Result: error: no rinex obs file (base station)