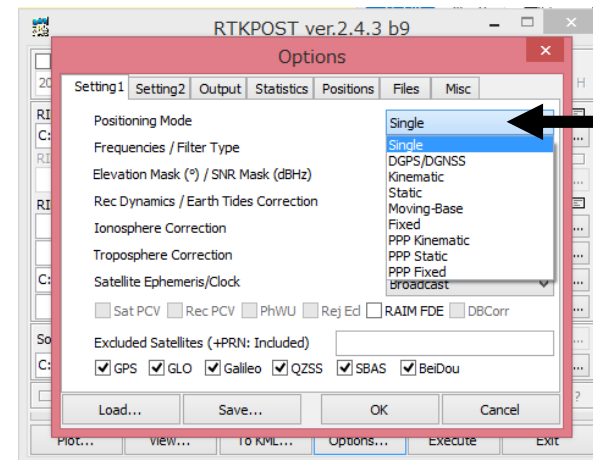


RTKPOST



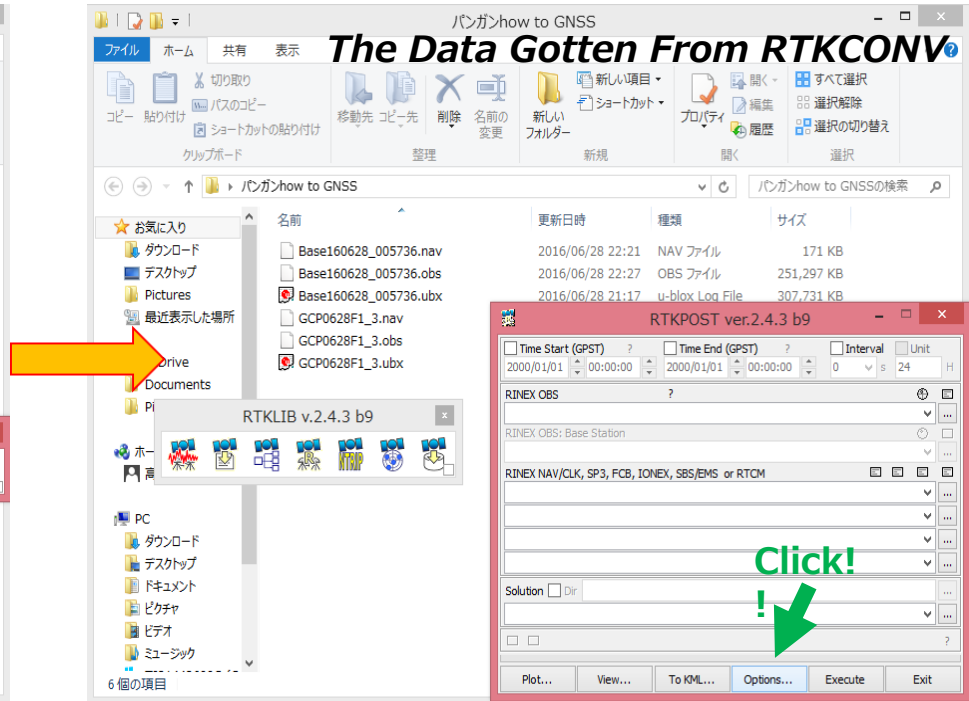
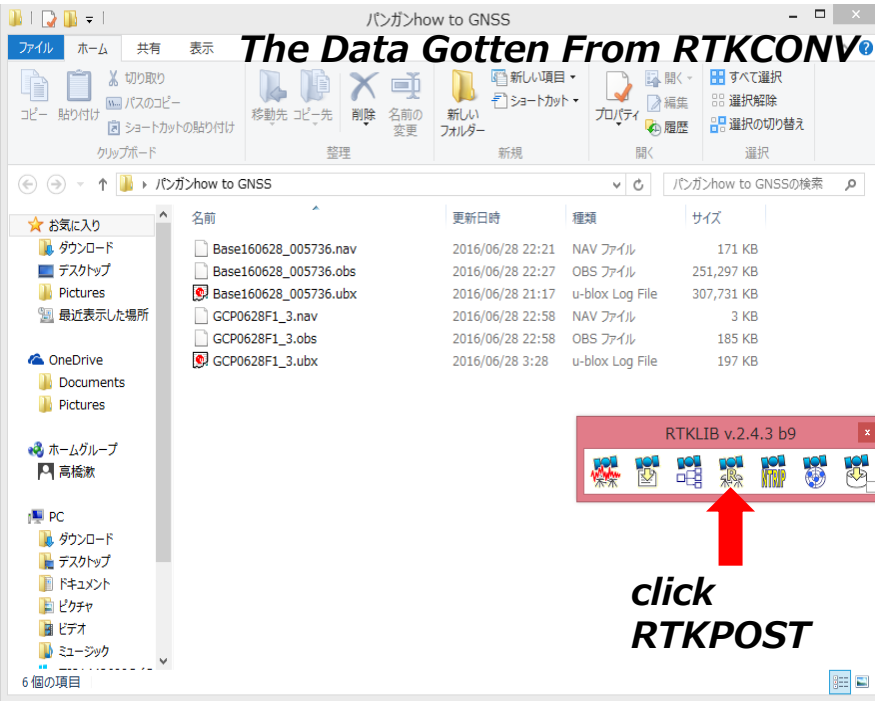
RTKPOST: post processing analysis AP. Inputs the RINEX observation and navigation message files.

Single-point, DGNSS, RTK...



オプションで設定

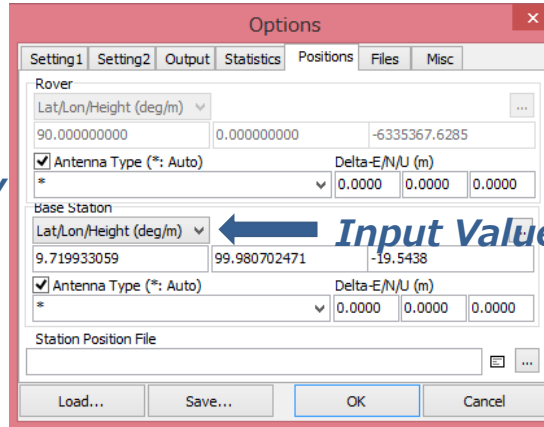
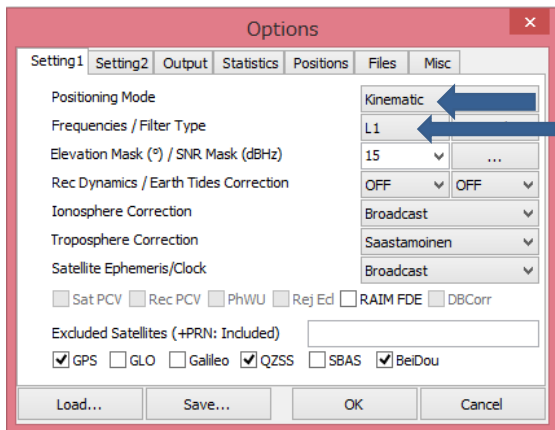
Post-Processing Analysis(RTK-GNSS) with RTKPOST -1 (Setting the options)



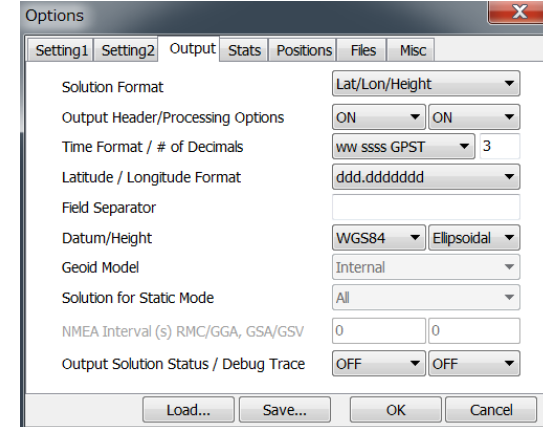
Setting 1

Positions

Outputs



Accurate Base station position is required



Post-Processing Analysis(RTK-GNSS) with RTKPOST -2 (Input the RINEX file)

The image displays two side-by-side screenshots of the RTKPOST software interface, titled "The Data Gotten From RTKCONV". Both windows show a file explorer view of a folder named "パンガンhow to GNSS".

Left Screenshot: The file list includes "Base160628_005736.nav", "Base160628_005736.obs", "Base160628_005736.ubx", "GCP0628F1_3.nav", "GCP0628F1_3.obs", and "GCP0628F1_3.ubx". A blue arrow points from the "Base160628_005736.obs" file to the "RINEX OBS: Rover" field in the "RTKPOST ver.2.4.3 b9" dialog box. Another blue arrow points from the "Base160628_005736.nav" file to the "RINEX NAV/CLK, SP3, FCB, IONEX, SBS/EMS or RTCM" field. A red arrow points from the "Base160628_005736.nav" file to the "Base160628_005736.nav" text in the dialog box, with a red checkmark below it.

Right Screenshot: The file list is the same. A blue arrow points from the "Base160628_005736.obs" file to the "RINEX OBS: Base Station" field in the "RTKPOST ver.2.4.3 b9" dialog box. Another blue arrow points from the "Base160628_005736.ubx" file to the "RINEX NAV/CLK, SP3, FCB, IONEX, SBS/EMS or RTCM" field. A red arrow points from the "Base160628_005736.ubx" file to the "Base160628_005736.ubx" text in the dialog box, with a red checkmark below it.

Text overlays on the screenshots include "Drag & Drop(Base.obs)" and "Drag & Drop(Rover.obs)".

Input files for RTK

- **Two Observation files** of base station and rover
- One Navigation file

Post-Processing Analysis(RTK-GNSS) with RTKPOST -2 (Execute and Plot)

The image displays two side-by-side screenshots of the RTKPOST software interface, titled "The Data Gotten From RTKCONV" and "The Data Gotten From RTKPOST".

Left Screenshot (RTKCONV): Shows the software's main window with a file explorer on the left. The file list includes: Base160628_005736.nav (171 KB), Base160628_005736.obs (251,297 KB), Base160628_005736.ubx (307,731 KB), GCP0628F1_3.nav, GCP0628F1_3.obs, and GCP0628F1_3.ubx. A red box highlights the "Execute" button at the bottom. A red arrow points from the text "Solution (.pos File)" to the "Execute" button. A green arrow points to the "Execute" button with the text "Click!".

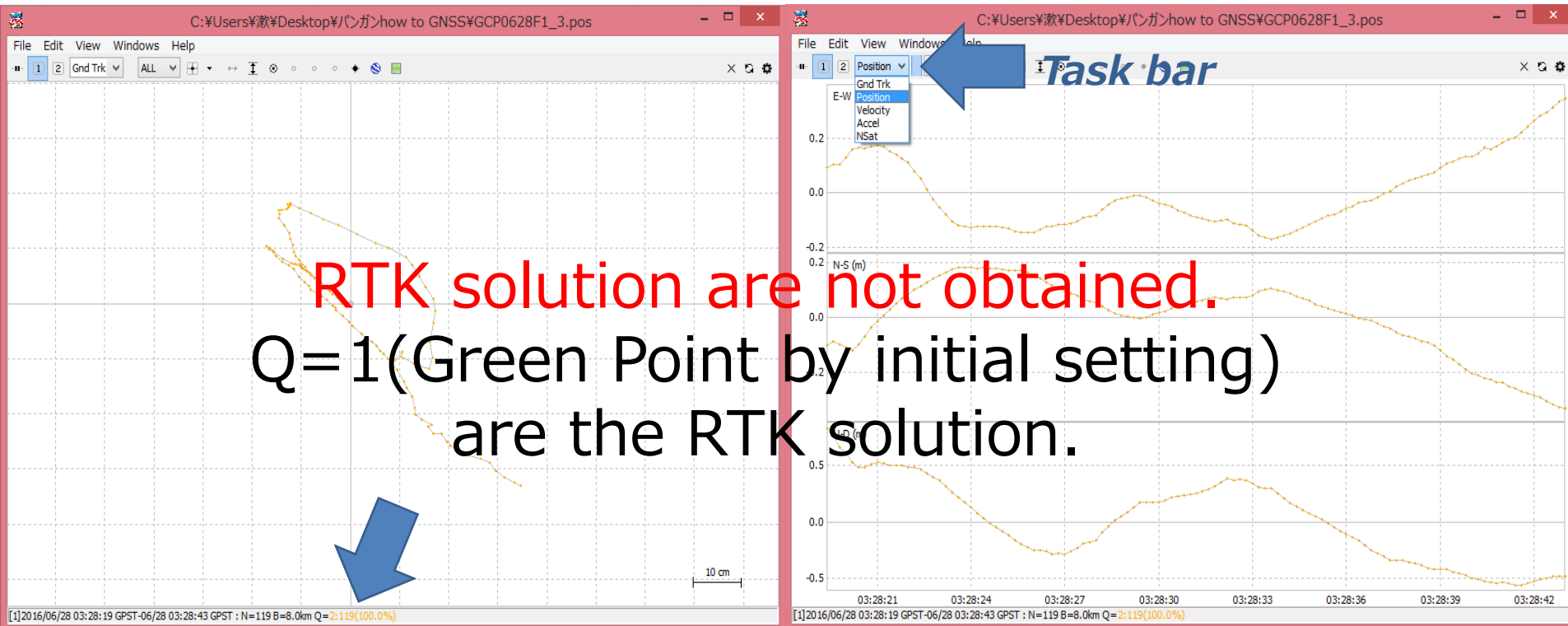
Right Screenshot (RTKPOST): Shows the same software window after processing. The file list now includes a new file: GCP0628F1_3.pos. A red arrow points to this file with the text ".pos File Appears!". A red arrow also points to the "Plot" button at the bottom. A green arrow points to the "Plot" button with the text "Click!". The status bar at the bottom shows "done". A red arrow points from the text "Done!" to the "Plot" button.

Click and Execute
(Green bar show the progress of analysis)

Click Plot button
shows the solution
by RTKPLOT

In this case, .pos file is generated.
You can also obtain NMEA format solution.

Results from previous setting



Setting 1

Options

Setting1 Setting2 Output Statistics Positions Files Misc

Positioning Mode: Kinematic

Frequencies / Filter Type: L1 Forward

Elevation Mask (°) / SNR Mask (dBHz): 15

Rec Dynamics / Earth Tides Correction: OFF OFF

Ionosphere Correction: Broadcast

Troposphere Correction: Saastamoinen

Satellite Ephemeris/Clock: Broadcast

Sat PCV Rec PCV PhWU Rej Ed RAIM FDE DBCorr

Excluded Satellites (+PRN: Included):

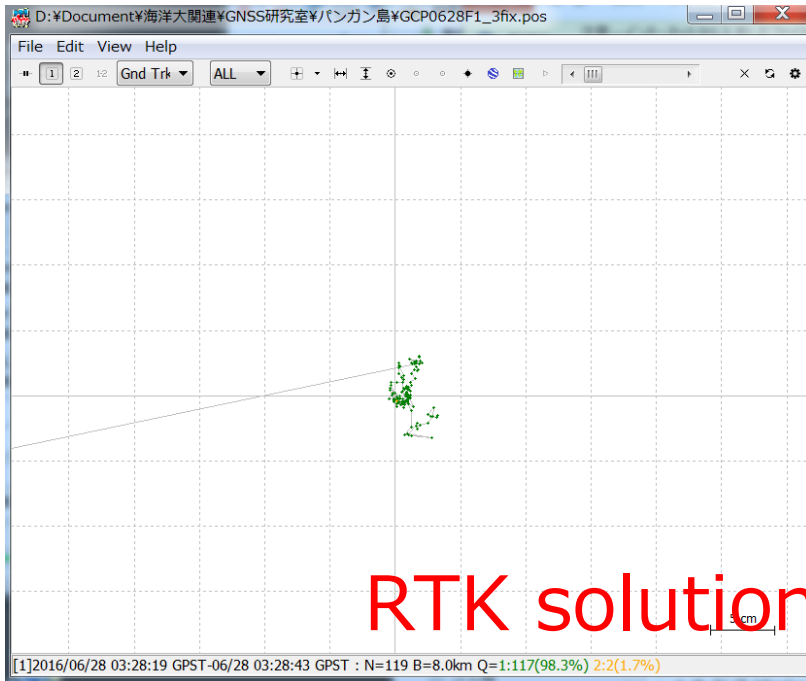
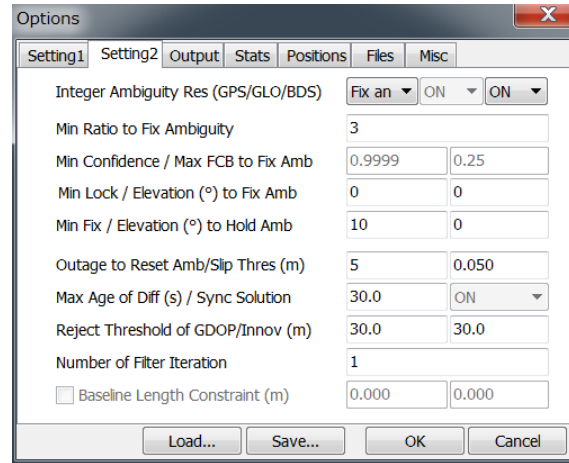
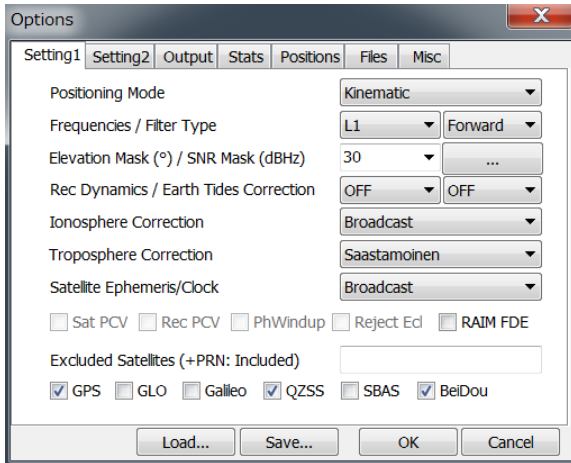
GPS GLO Galileo QZSS SBAS BeiDou

Load... Save... OK Cancel

RTK
Single Frequency

From the next slide, learning the parameter turning to obtain fix solution

EX.1) Same data with different settings by previous result



RTK solution are obtained.

Next lecture...

- Parameter tunings

How to improve your data for Post process.

- View the solutions with GOOGLE earth

Convert solution data (.pos) to KML.