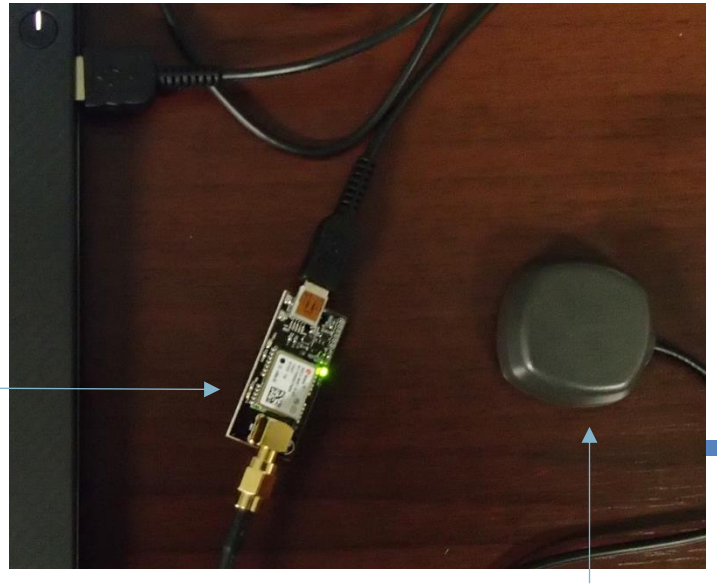
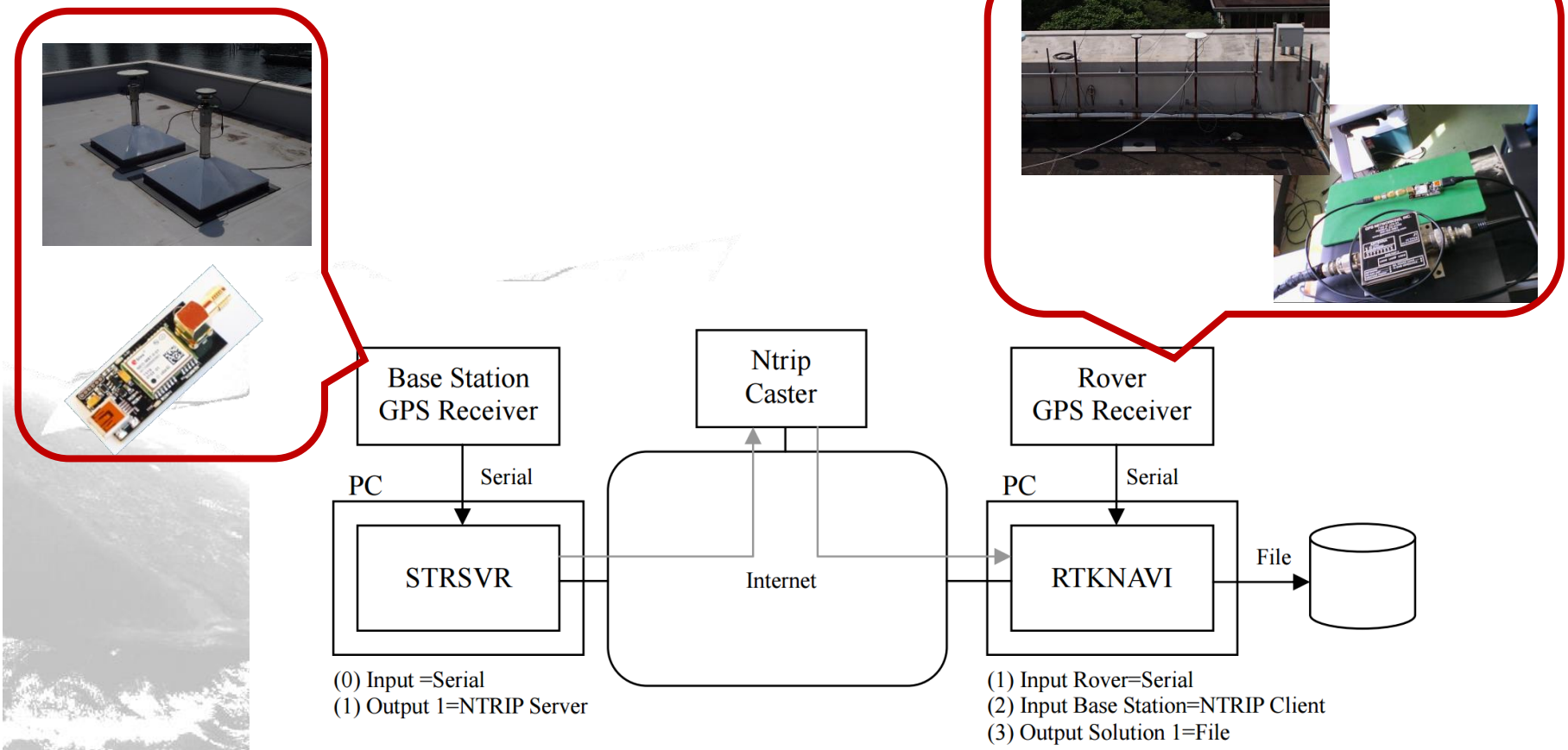
How to use Receiver/Antenna Test Package

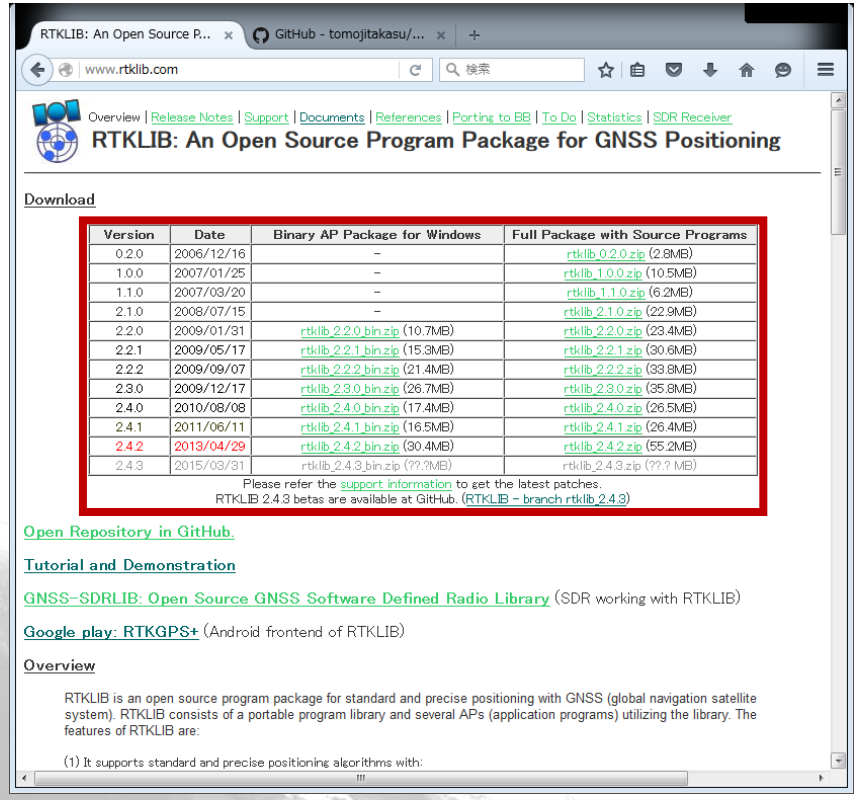


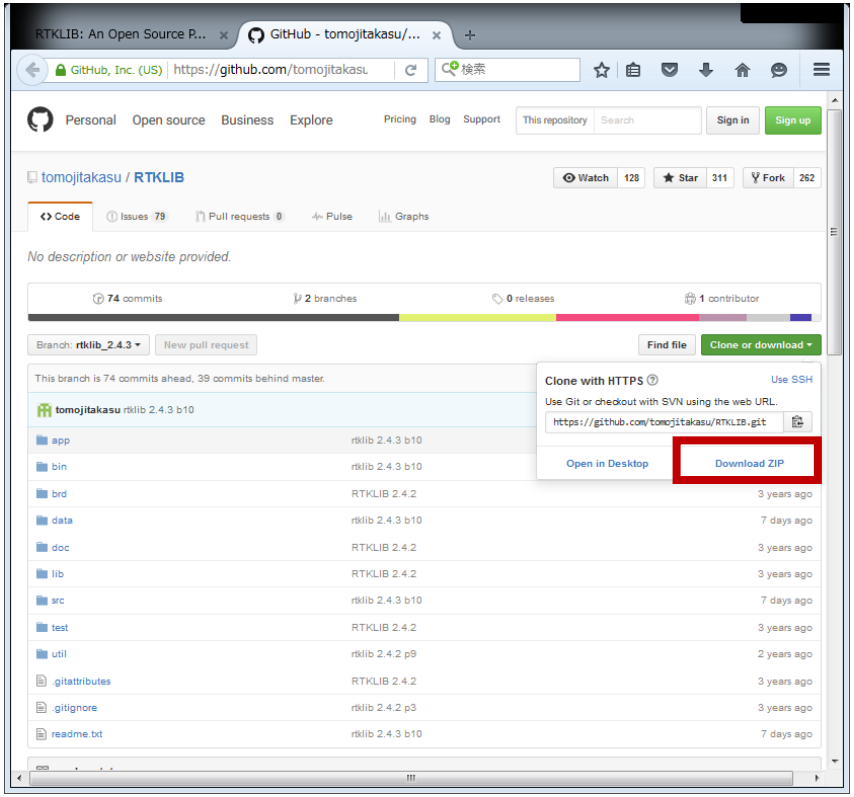
Use Ublox as the reference station

- Reference station uploads raw data
- Ntrip server can distribute the data

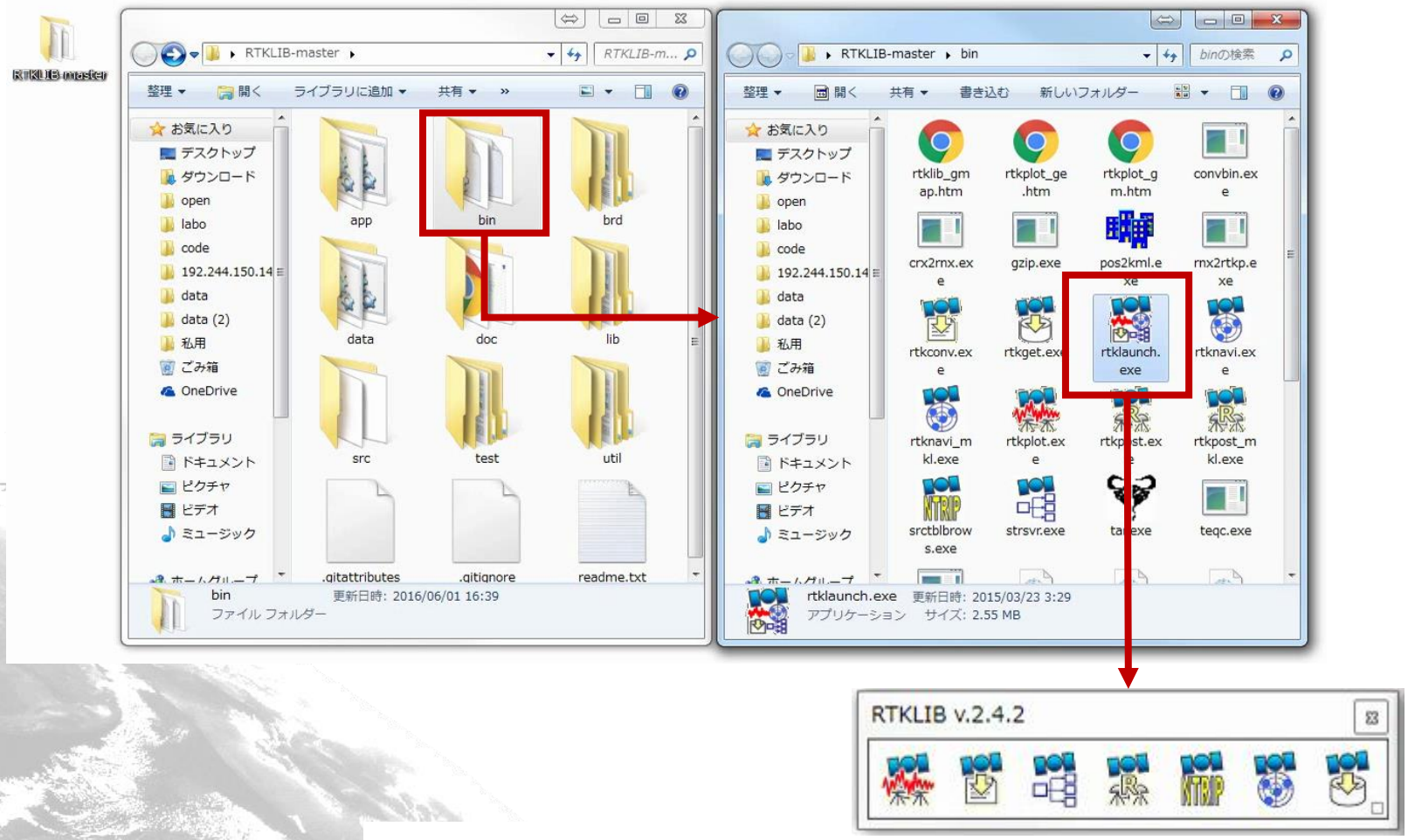


Download RTKLIB



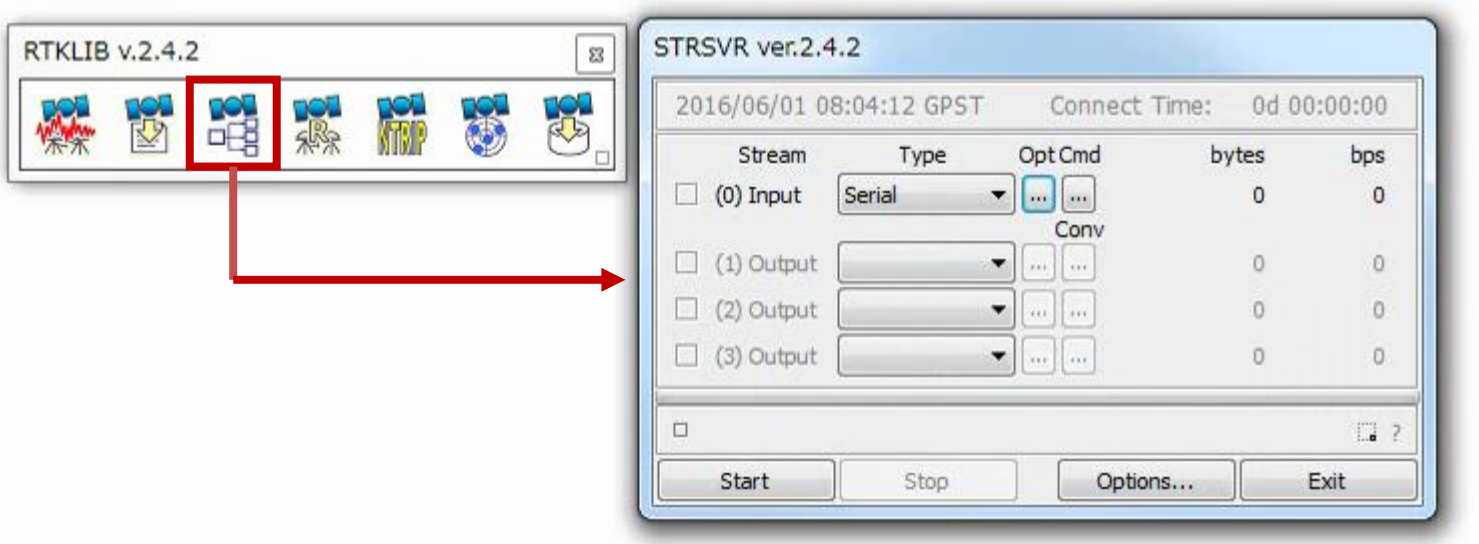


Start RTKLIB



Start STRSVR

- Click the icon that is the third from the left
- STRSVR is the application for the data streaming server
  - We need to select input and output settings
  - Three output files can be selected for each input file



STRSVR : Setting input and output

- Select input data source

  At this time

  USB serial port from u-blox receiver: port ##, bitrate:115200

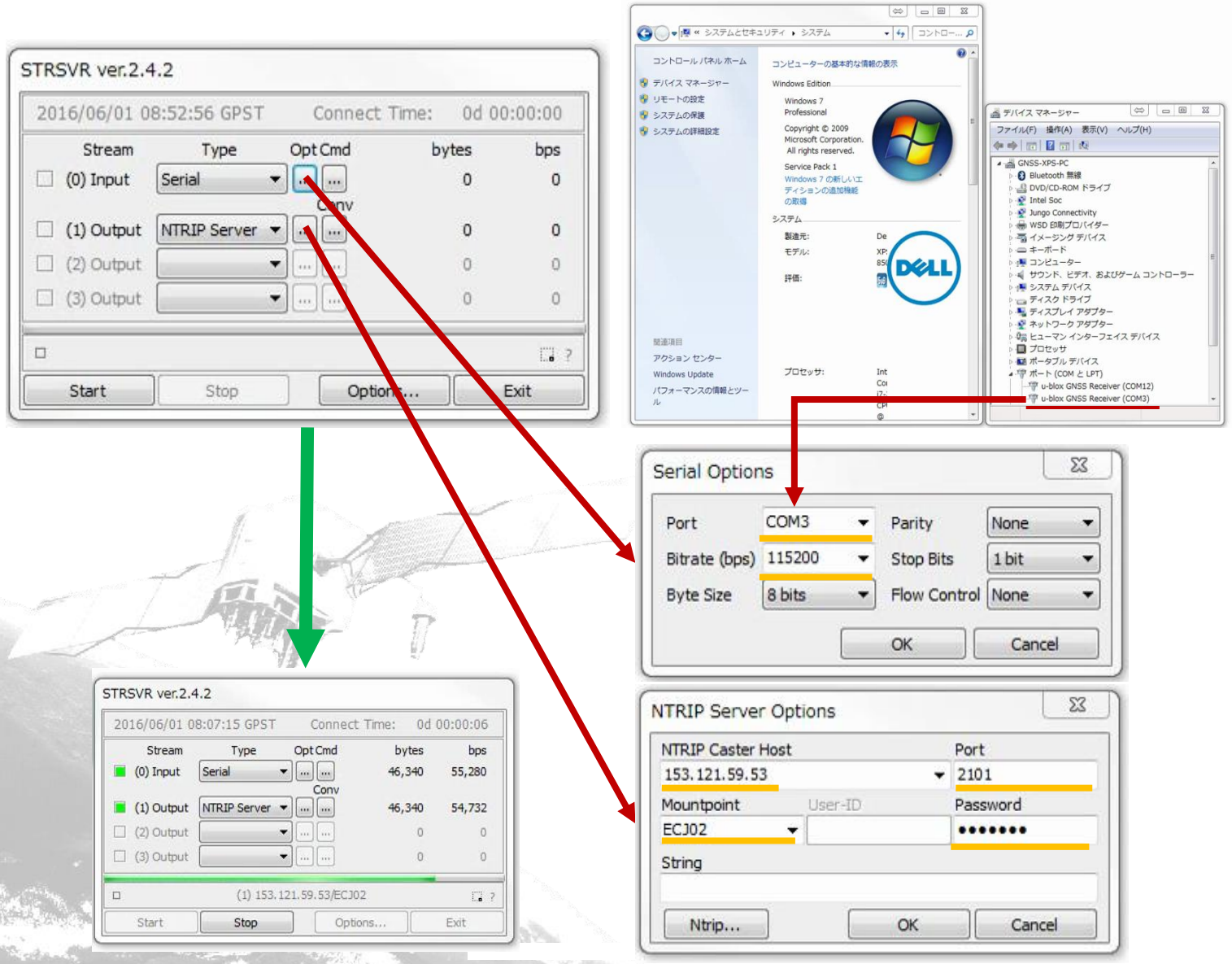
- Select the output data destination

  — upload the data to the Ntrip caster prepared in advance within the Ntrip server

  — At this time

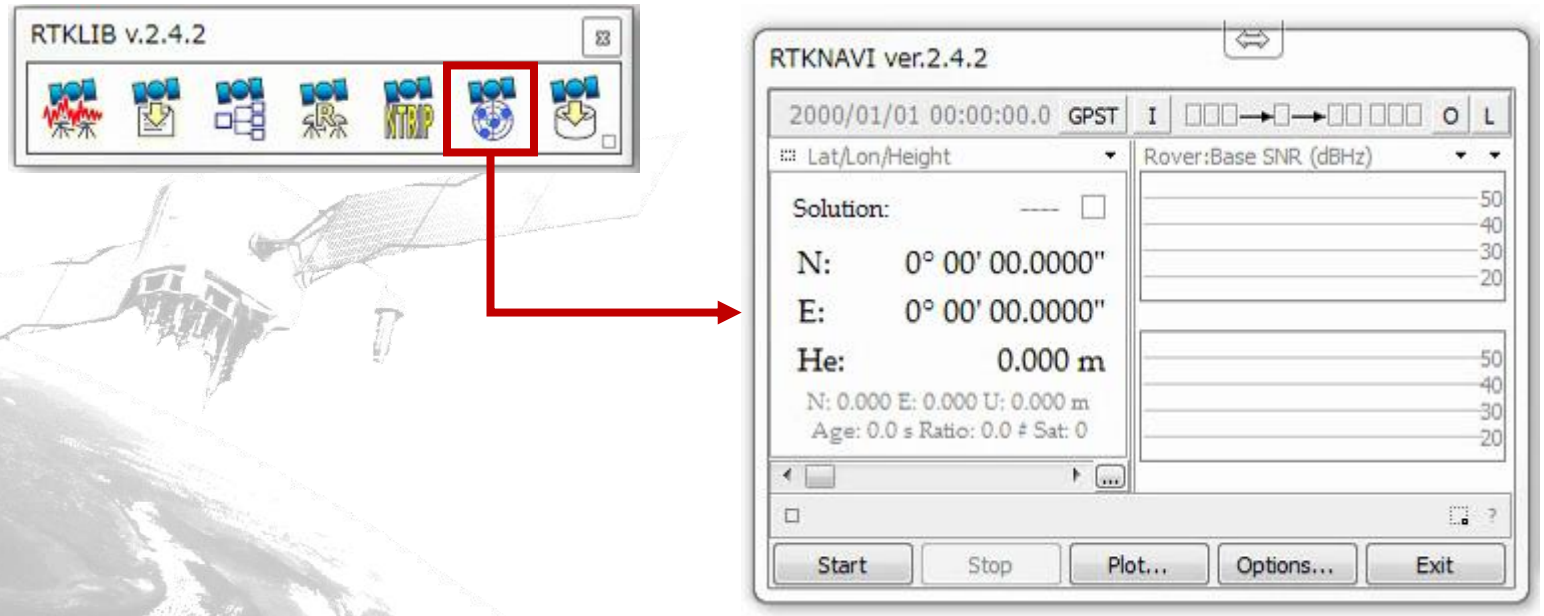
  upload the data to the Ntrip caster in the Sakura server as mount point ECJ02

STRSVR : Setting input and output



Start STRNAVI

- Click the icon that is the second from the right
- STRNAVI is an application for real-time analysis
- It can access logged data

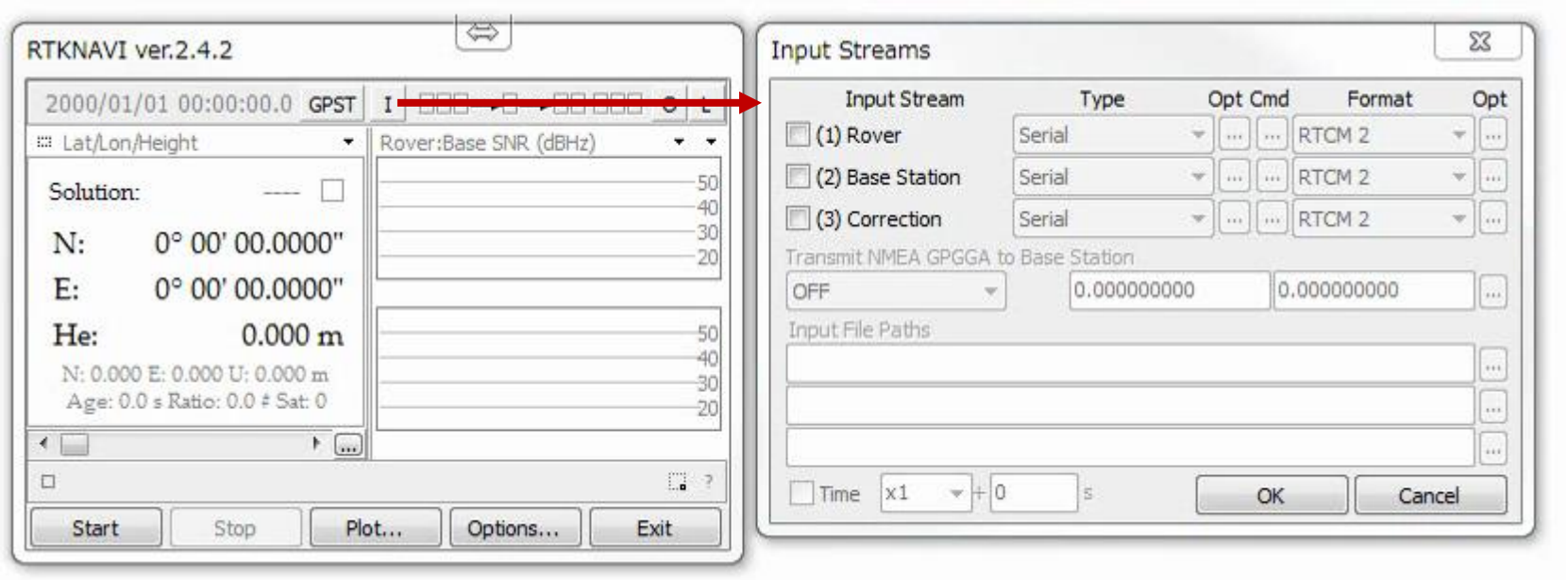


STRNAVI : Setting input

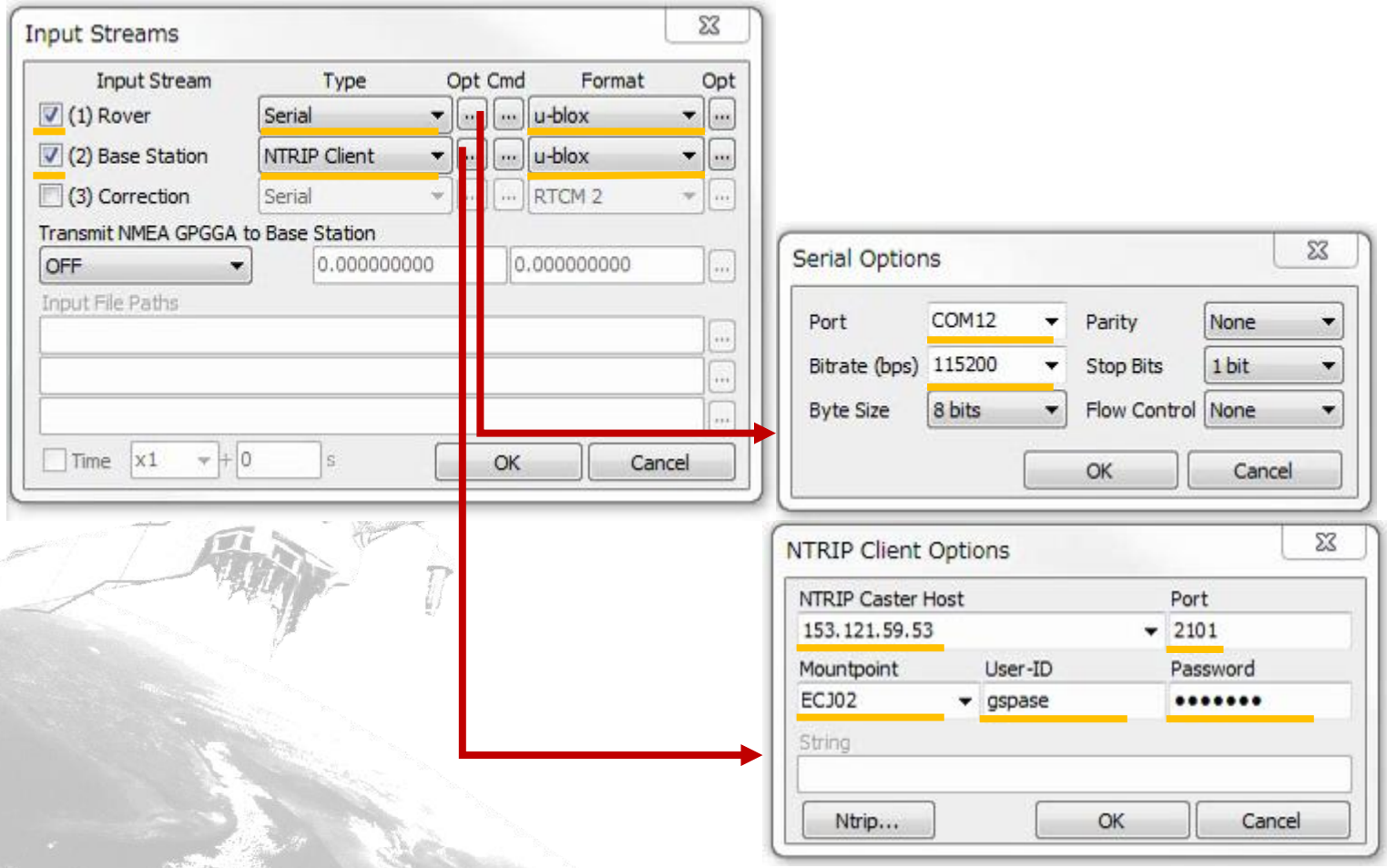
- Select input data source

Select format to match the input data source

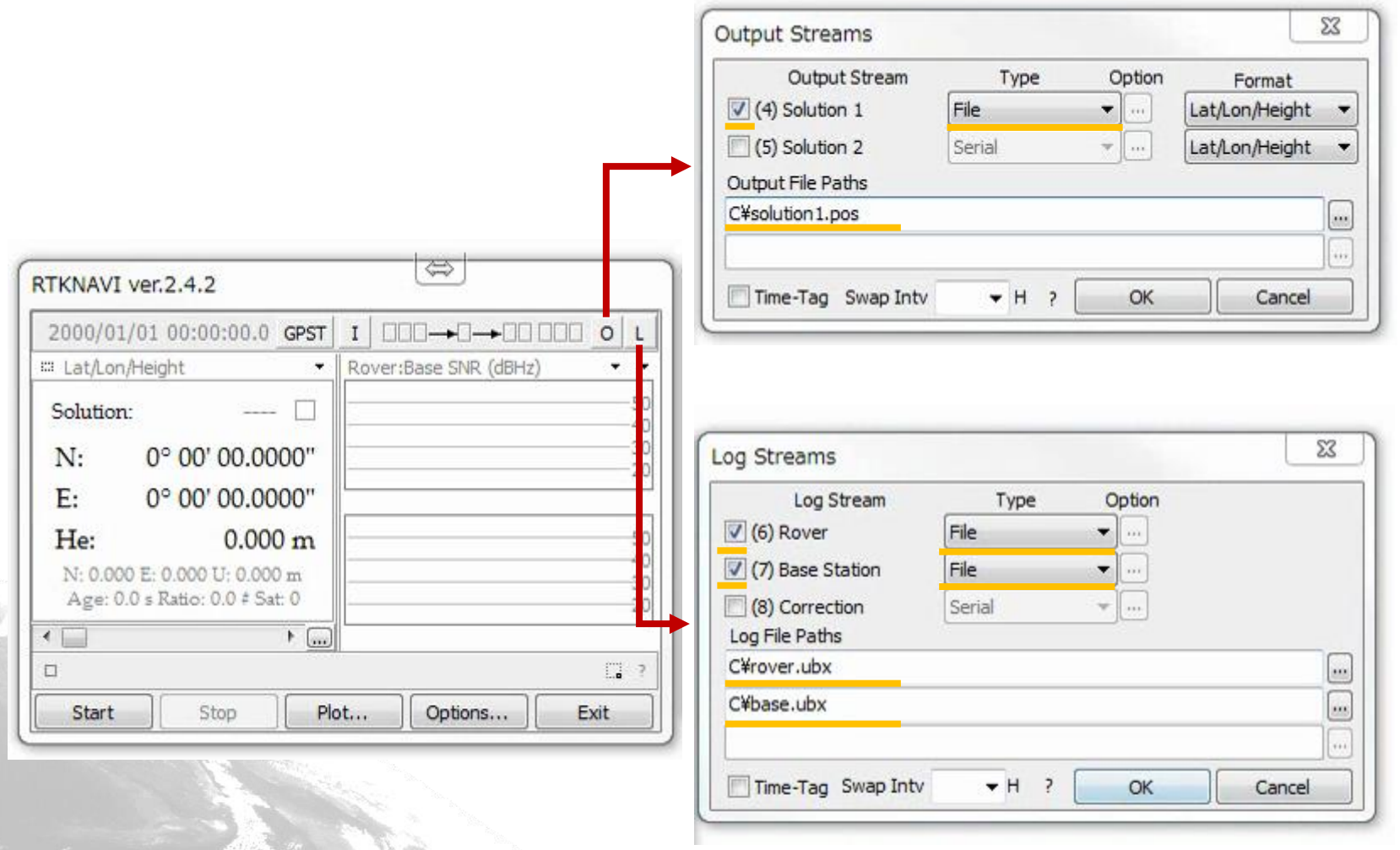
At this time, Base: ECJ02, rover: Serial



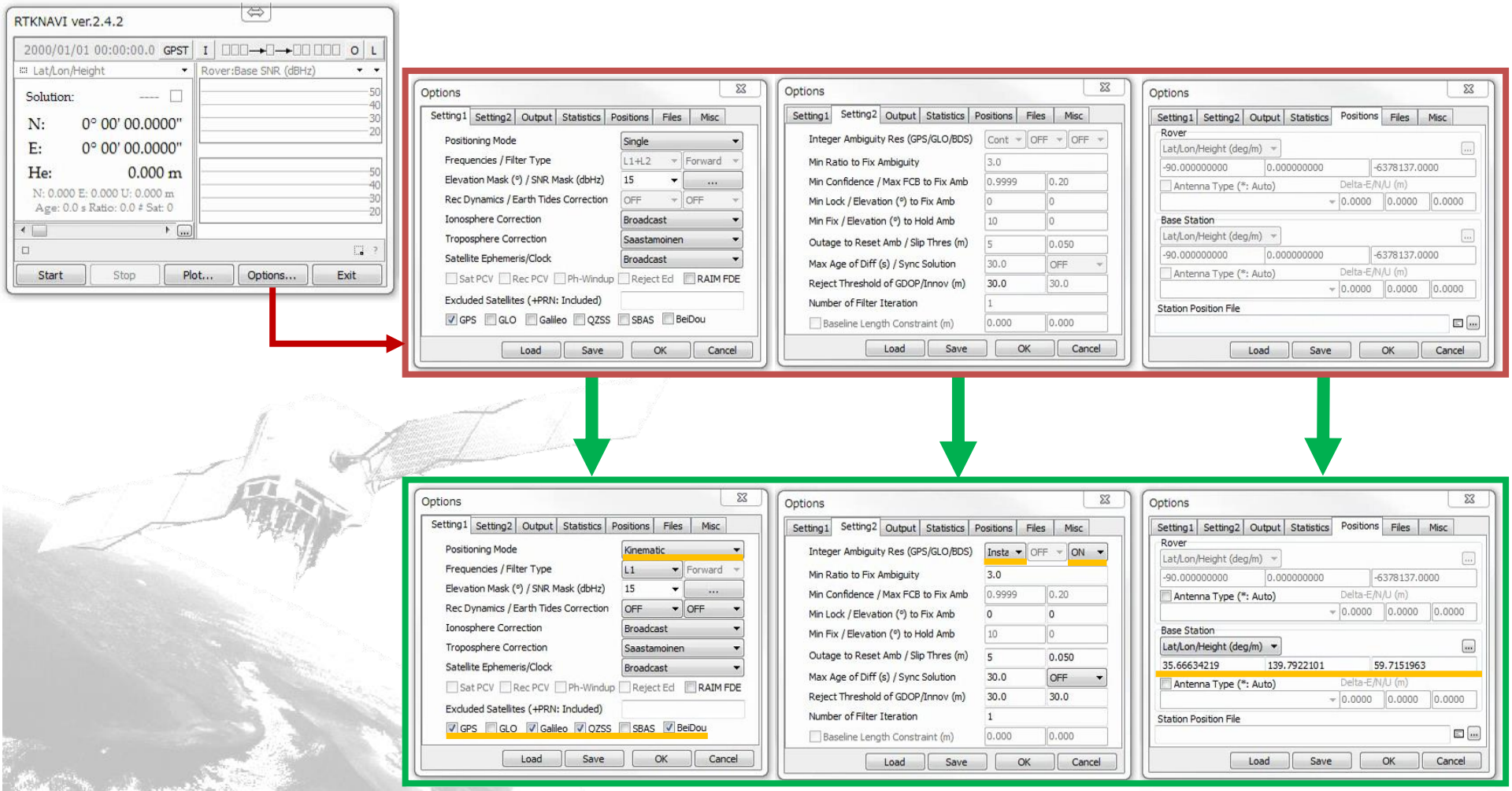
RTKNAVI : Setting input



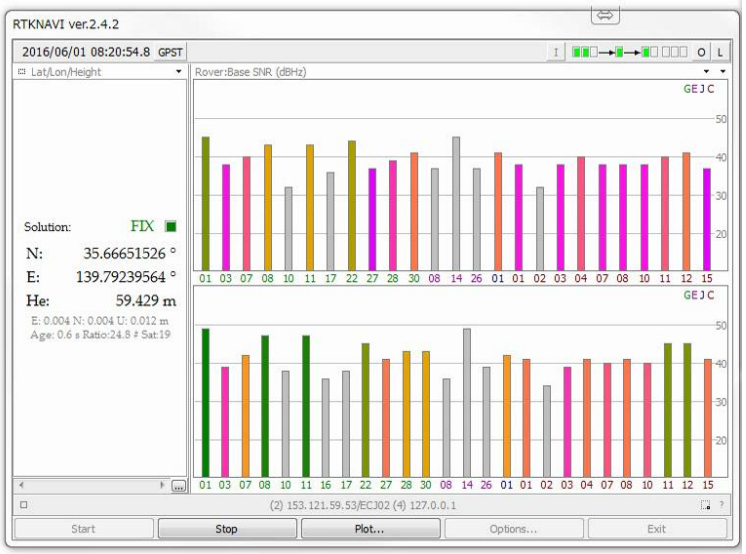
RTKNAVI : Setting output

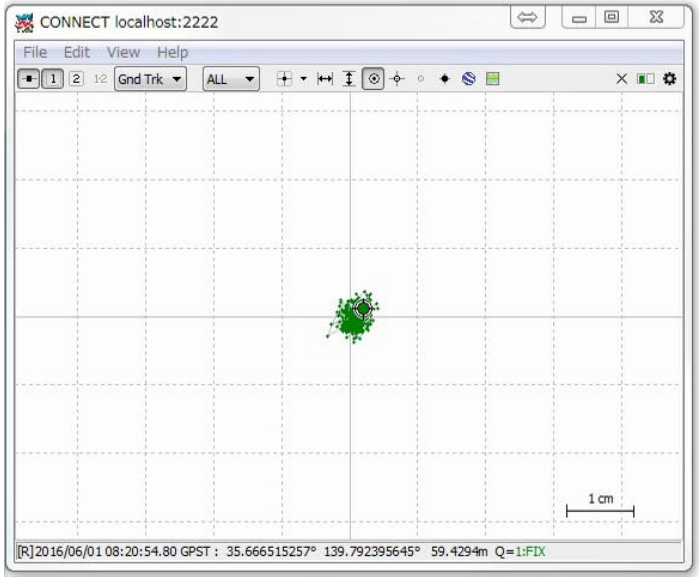


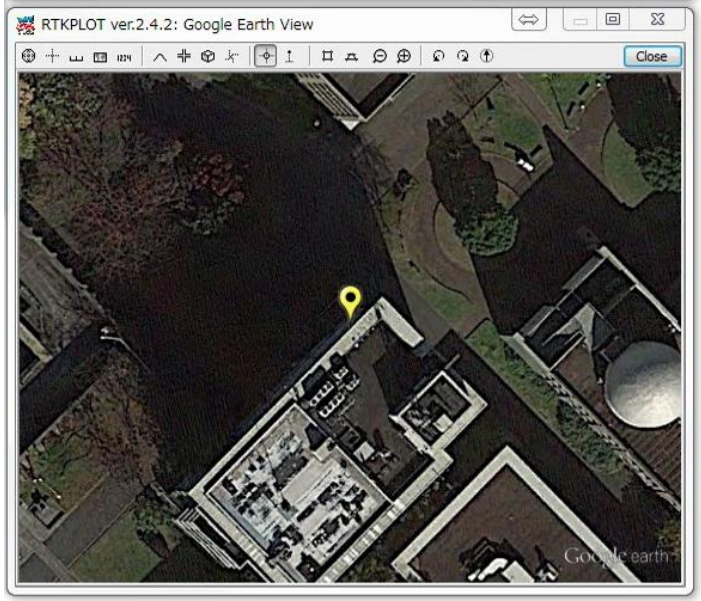
RTKNAVI：Setting options



RTKNAVI : Processing results

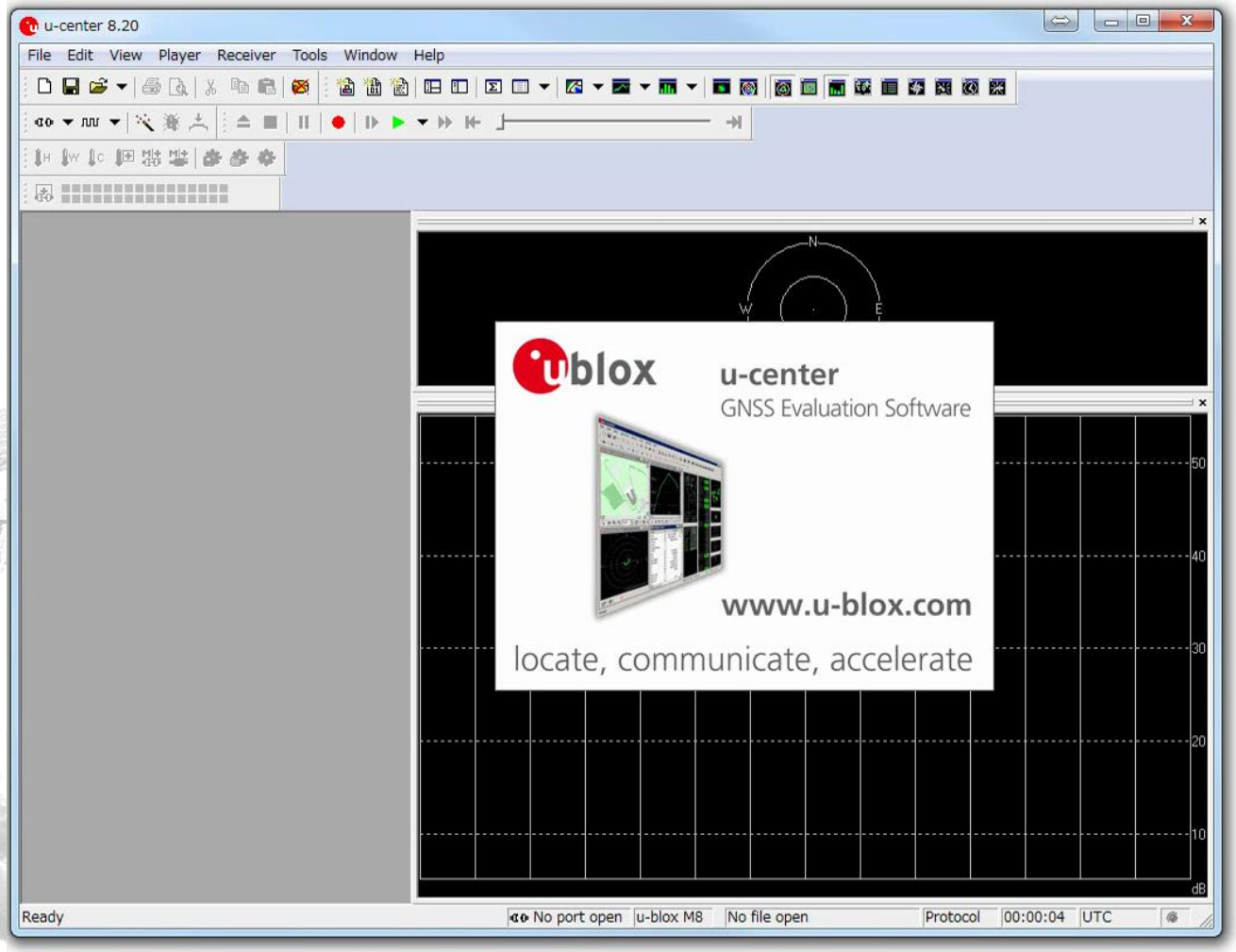






U-center : Receiver configuration settings

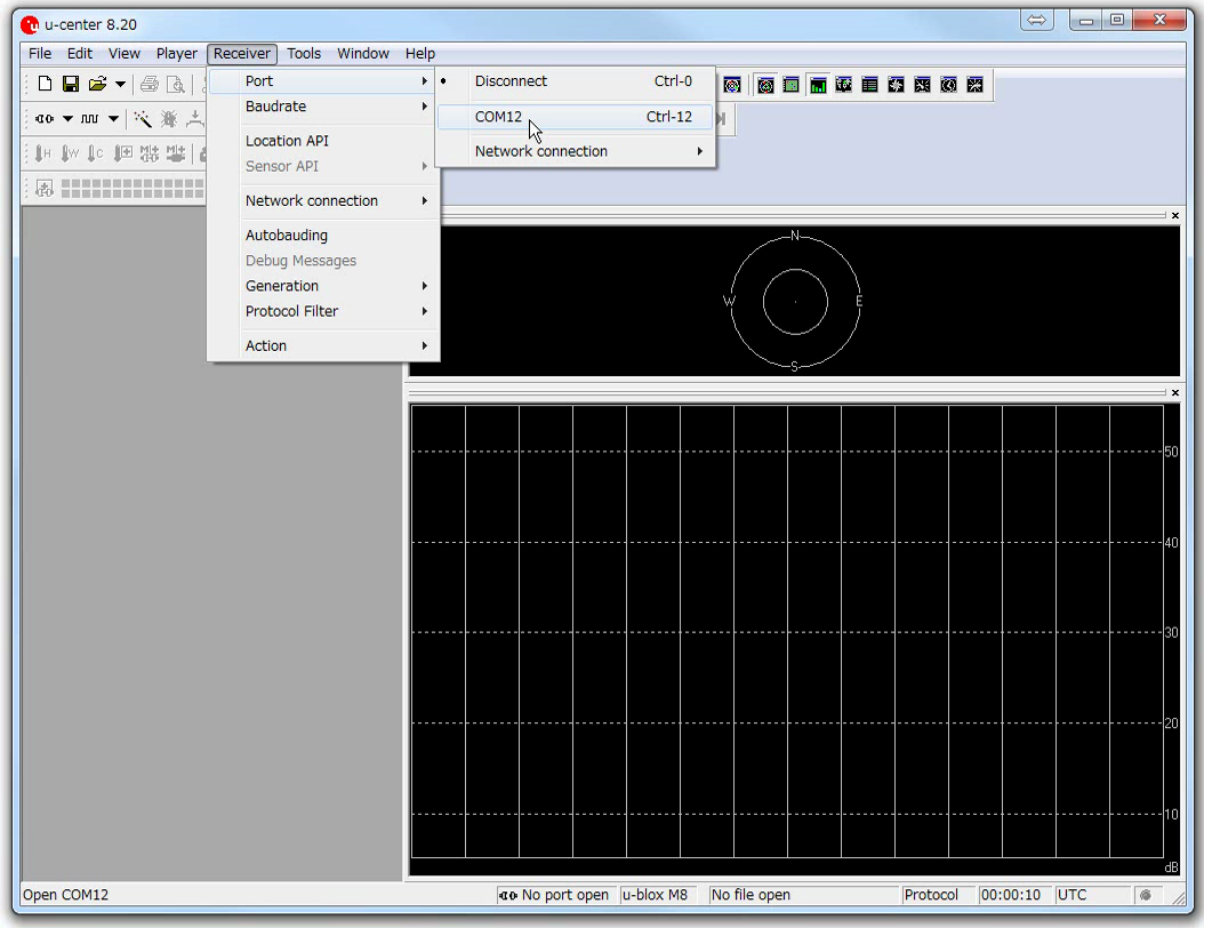
- Start U-center ver. 8.20 or later



U-center : Receiver configuration settings

- Connecting

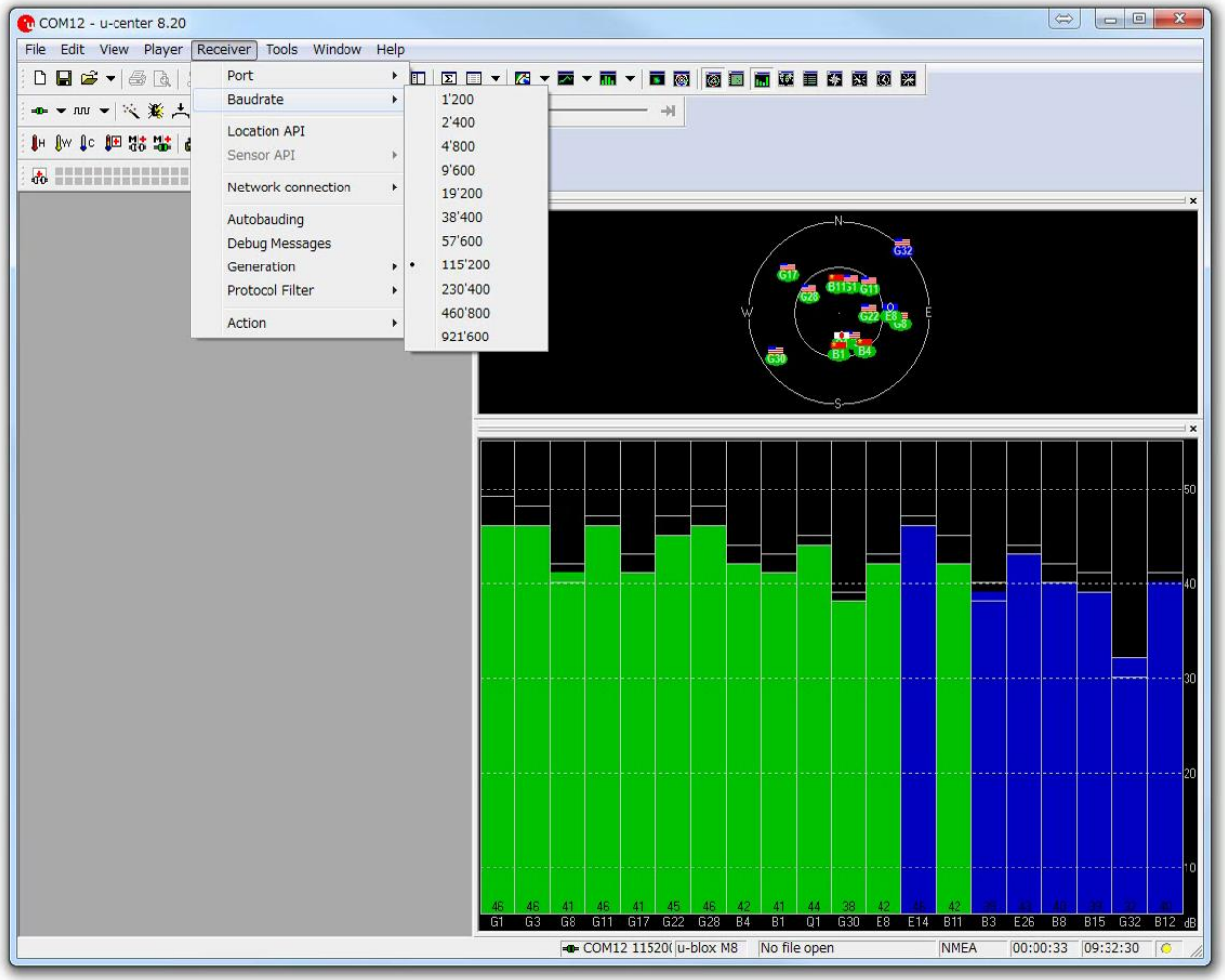
  Receiver->Port-> Select receiver port number



U-center : Receiver configuration settings

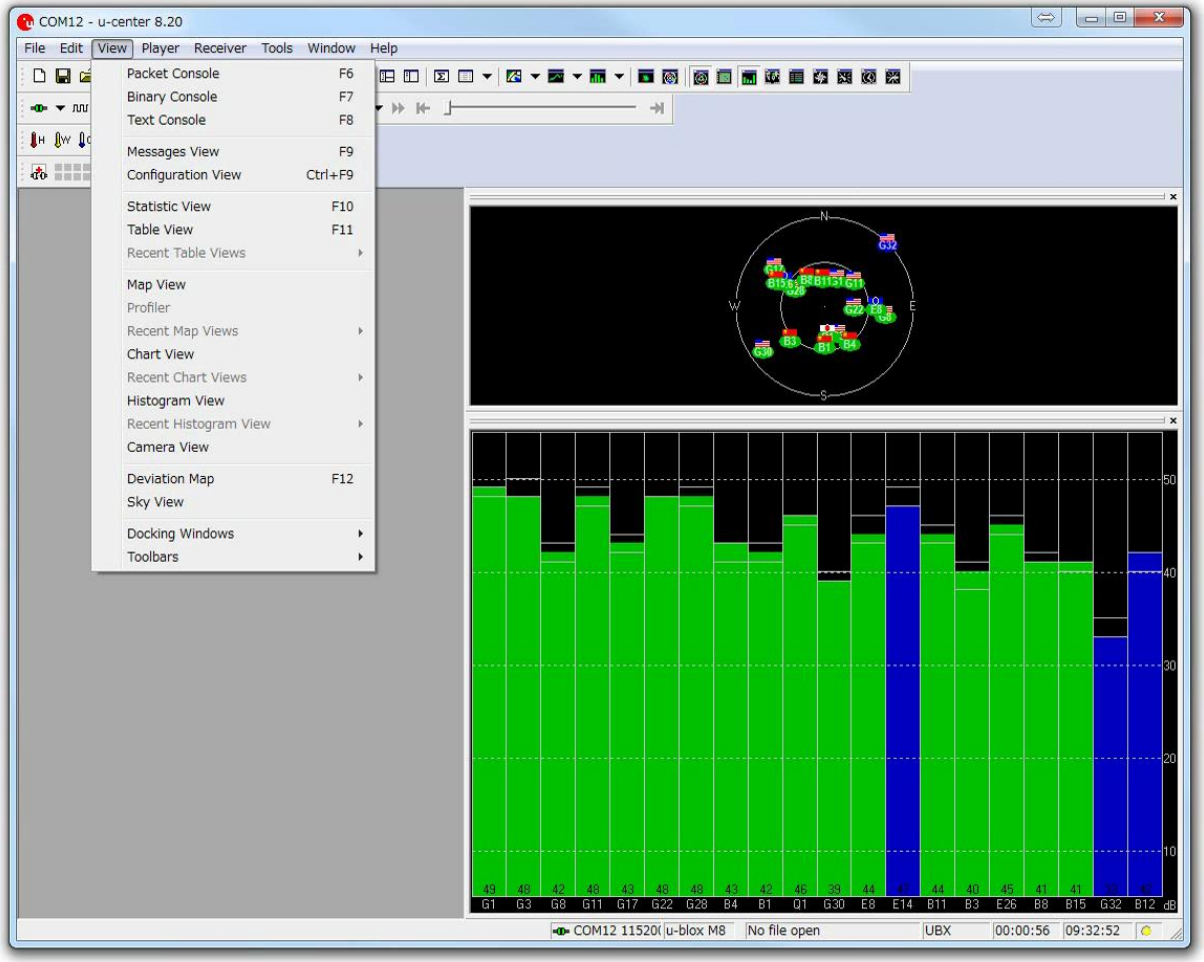
- Set USB Baud rate

  Receiver->Baudrate (Recommendation: 115200)



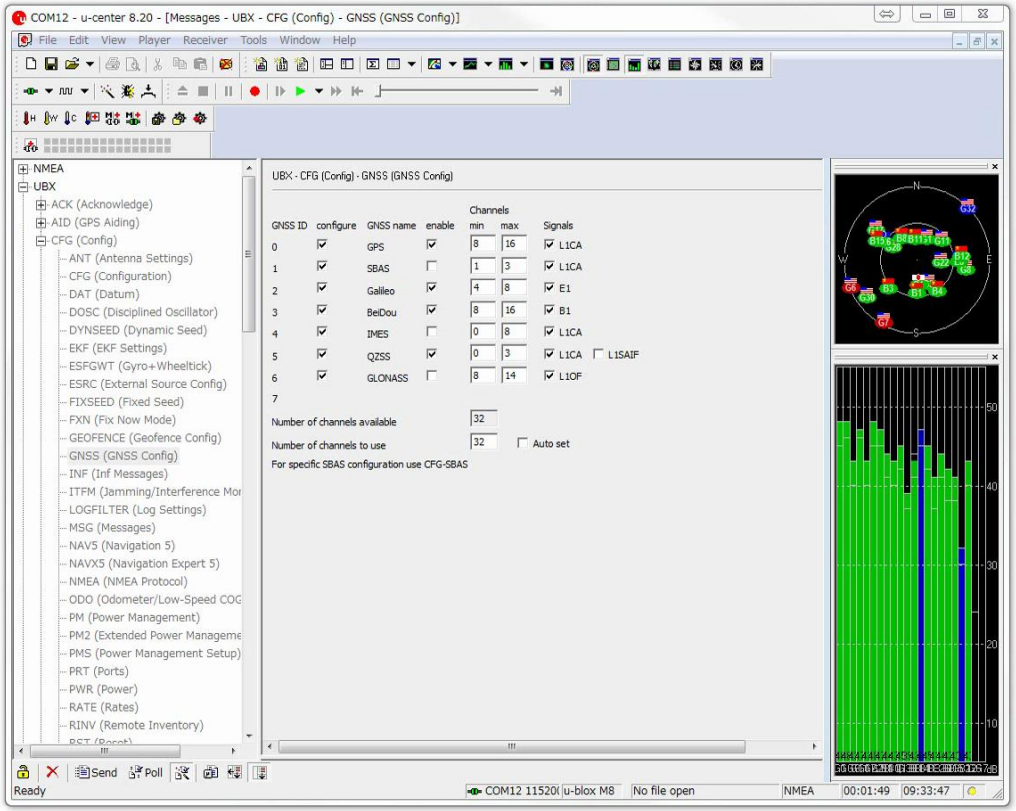
U-center : Receiver configuration settings

- Set detailed configuration settings
- View->message view (see next slide)



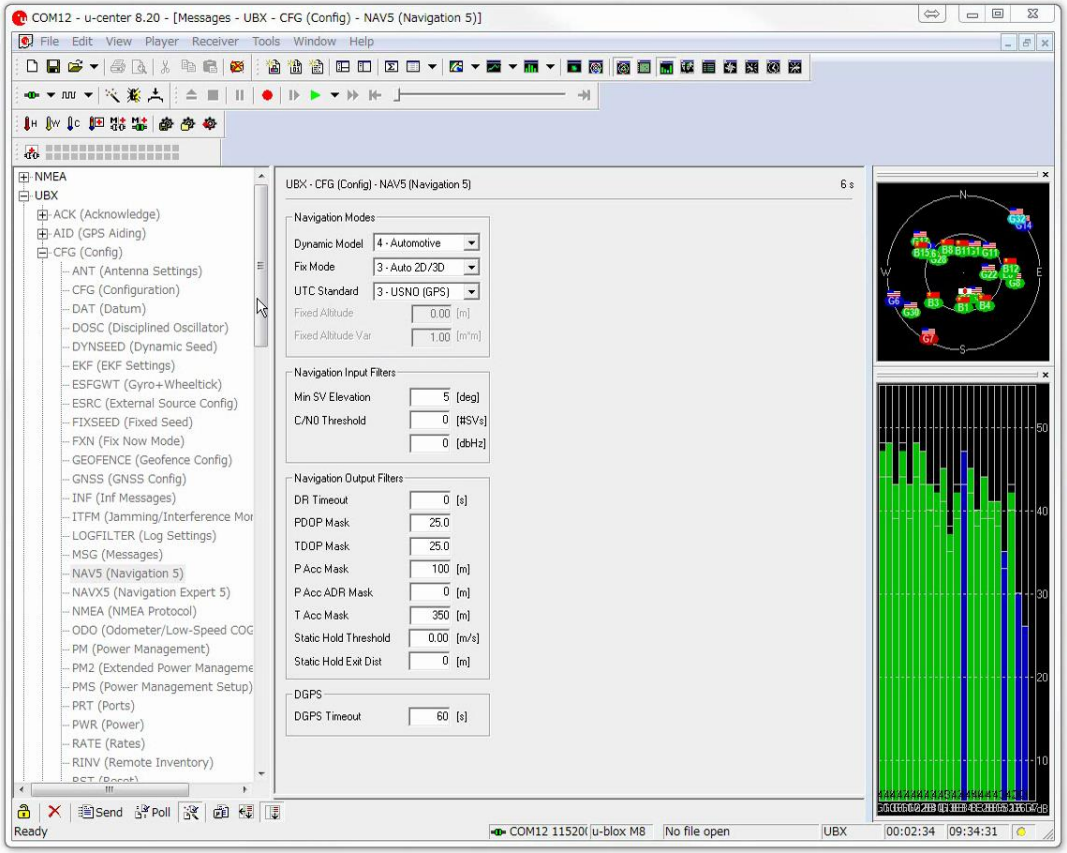
U-center : Receiver configuration settings

- Select satellites
  - UBX->CFG->GNSS
  - Cannot use GLONASS and Beidou at the same time
  - After changing Configuration, click Send



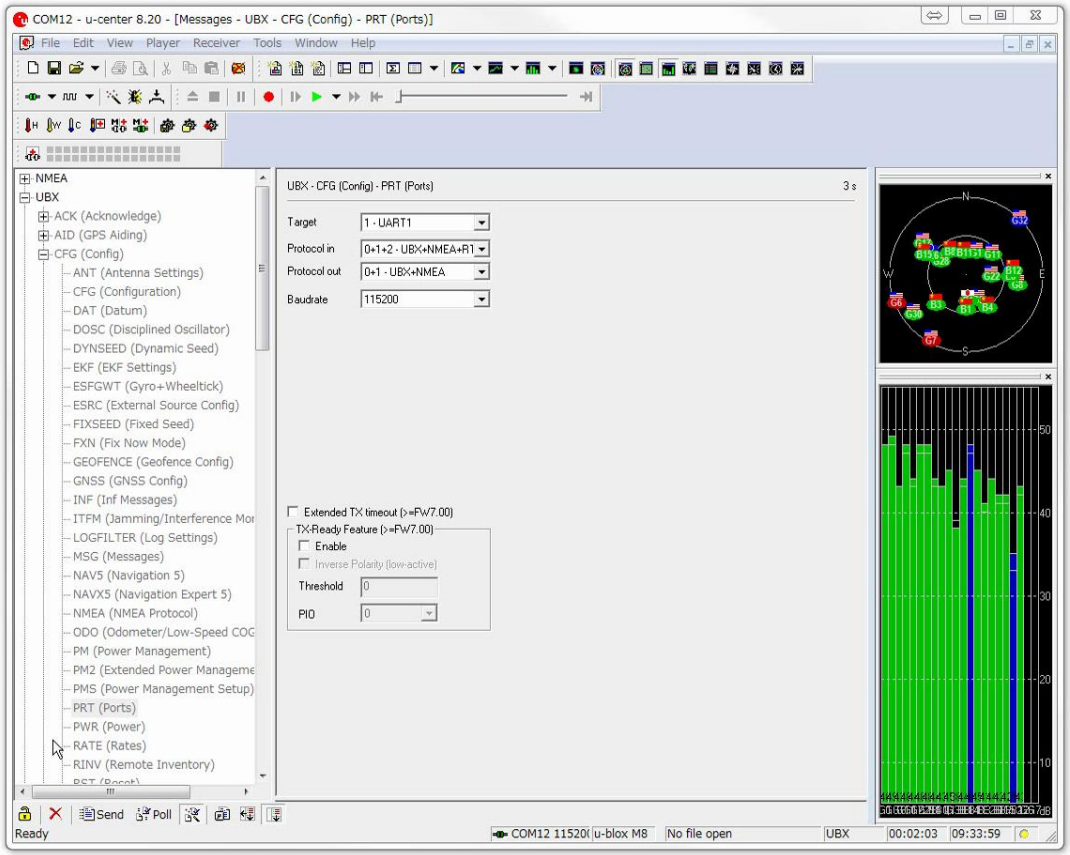
U-center : Receiver configuration settings

- Change NMEA data mode
  - UBX->CFG->NAV5
  - After changing Configuration, click Send



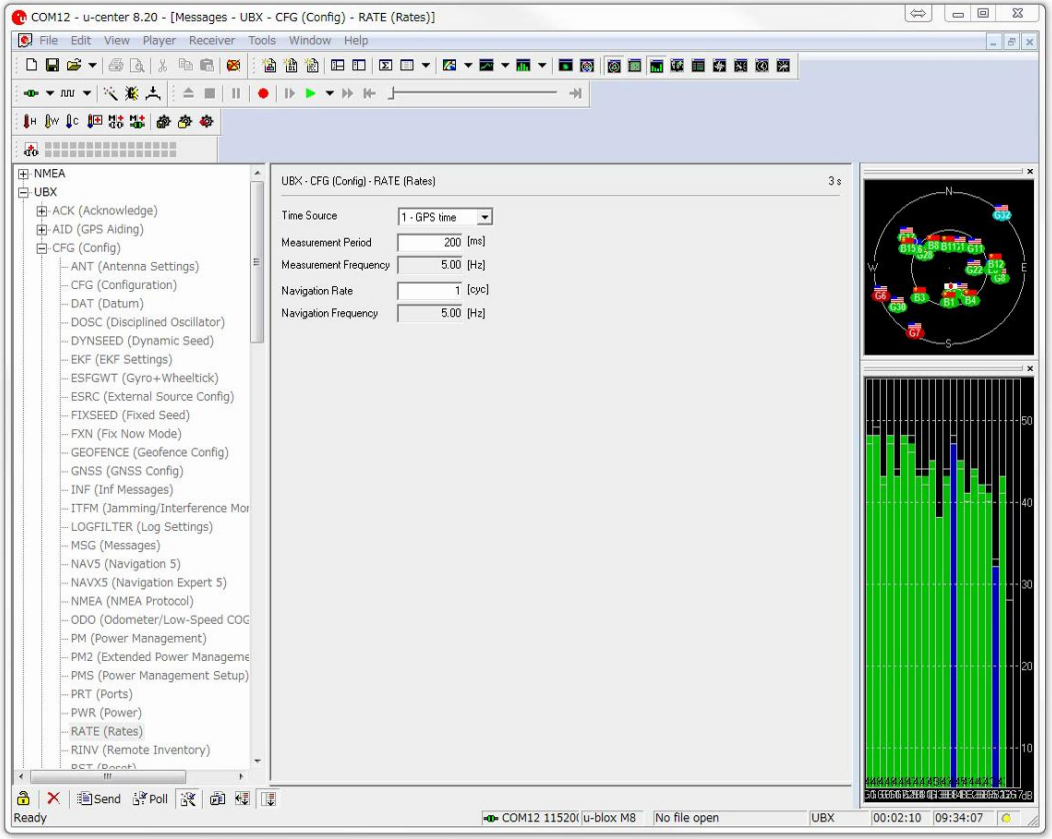
U-center : Receiver configuration settings

- Confirm output of each port
  - UBX->CFG->PRT
  - Baud rate and UART are the same as for USB (ex. 115200)



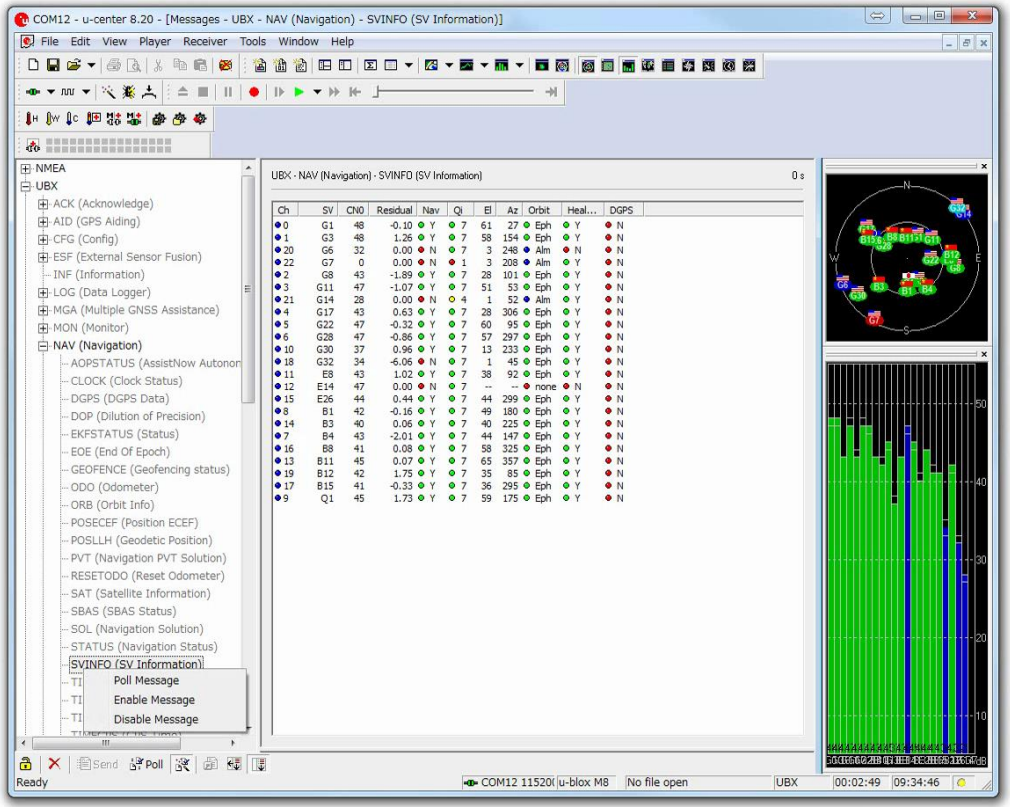
U-center : Receiver configuration settings

- Setting output data interval (data rate)
  - UBX->CFG->RATE
  - (200 ms = 5 Hz)



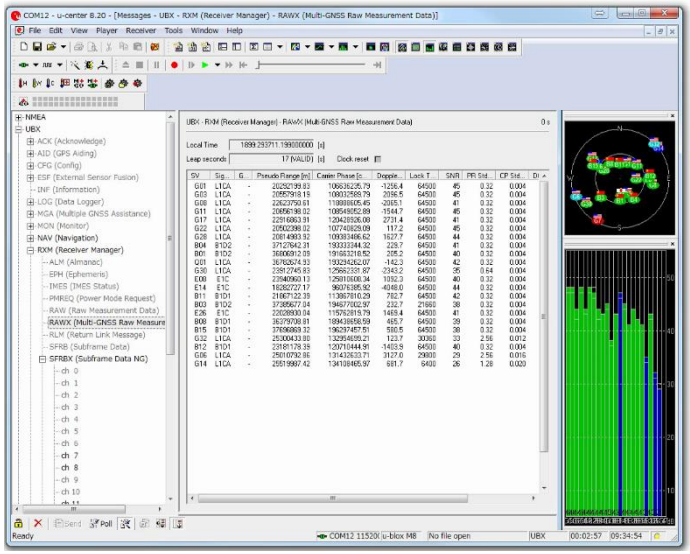
U-center : Receiver configuration settings

- Output SVINFO (recommended)
  - UBX->NAV->SVINFO
  - Right click SVINFO->Enable SV information Message & Poll Message



U-center : Receiver configuration settings

- Output RAWX (obs file)
  - UBX->RXM->RAWX
  - Right click RAWX
    - Enable Message & Poll Message
- Output SFRBX (nav file)
  - UBX->RXM->SFRBX
  - Right click SFRBX
    - Enable Message & Poll Message
- This data is used by RTKNAVI



U-center : Receiver configuration settings

- Save receiver configuration
- Receiver->Action->Save config
- After setting and saving, Close u-center