UTokyo/ICG GNSS Training, 11 – 14 January 2022

Software Installation and Setup
Check Sample Data Sets

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Following software will be used for the training

Processing Method	Software	Link to Download	Comments
RTK	RTKLIB	https://home.csis.u-tokyo.ac.jp/~dinesh/GNSS_Train.htm	
PPP	RTKLIB		
MADOCA - PPP	MAD-WIN		Requires password to unzip
U-blox Receiver Setup	U-center for Windows		Download u-center for Windows not u-center-2.

Following GNSS Data will be used for practice during training

Data	Software	Link to Download	Comments
Dataset 01	Static Observation	https://home.csis.u-tokyo.ac.jp/~dinesh/GNSS_Train.htm	All these sample data are prepared by researchers at TUMSAT (Tokyo University of Marine Science and Technology)
Dataset 02	Dynamic Observation		

List of files and folder in StaticData folder

Name	Date modified	Type	Size
PPP_correction	2022/01/07 11:41 AM	File folder	
F9P_181215_static	2020/01/07 12:53 PM	UBX File	55,461 KB
BaseStationPosition	2022/01/07 11:32 AM	TXT File	1 KB
F9P_181215_static_RTK.pos_sample	2022/01/07 11:39 AM	POS_SAMPLE File	1,595 KB
F9P_181215_static_SPP_sample	2022/01/08 5:09 PM	POS File	1,595 KB
F9P_181215_static_PPP_sample	2020/10/29 2:14 PM	POS File	1,703 KB
PPP	2020/10/29 2:16 PM	CONF File	6 KB
NetR9_181215_static.binex	2020/01/07 12:55 PM	BINEX File	61,899 KB

List of files and folder in DynamicData folder

Name	Date modified	Type	Size
RTK	2022/01/04 11:59 AM	CONF File	5 KB
F9P_dynamic_rover_RTKsample	2022/01/04 11:57 AM	POS File	1,566 KB
BaseStationPosition	2022/01/04 11:12 AM	TXT File	1 KB
ECJ02_base	2021/12/22 2:22 PM	UBX File	44,351 KB
F9P_dynamic_rover	2022/01/04 11:47 AM	UBX File	43,345 KB

NTRIP Access Information to Download Live GNSS Data from UTokyo in Real-time

NTRIP Address	Port	User ID	Password	Mount Point	Receiver Type	Data Type
157.82.xxx.xxx	2101				U-blox F9P	GNSS raw data in UBX format
157.82.xxx.xxx	2101				U-blox F9P	GNSS raw data in UBX format
157.82.xxx.xxx	2101				U-blox D9C	MADOCA Correction data in UBX format
157.82.xxx.xxx	2101				Sony Spresense	NMEA Output and Early Warning Message

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CSIS/UTokyo Homepage Links for Software and Data Download

https://home.csis.u-tokyo.ac.jp/~dinesh/GNSS_Train.htm

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UTokyo / ICG GNSS Training
11 – 14 January 2022
Training Schedule (click here to download)

Software Download Links					
RTKDROID Link	RTKLIB Link GITHUB Link	u-Center for Windows	u-Blox Driver Setup	u-Blox Data Log Setup	
	RTKLIB Software ZIP file download	MADOCA PPP Software Download Link			
Data for Training					
Dataset 01 (Static) 2022	Dataset 02 (Dynamic) 2022				
Other Sample Data					
Static Data	Dynamic Data M8T	Dynamic Data F9P	TUMSAT Base Station Coordinate	RTK Dataset 01 RTK Dataset 02	
Smart-Phone Data					
Xiaomi Mi8 (a)	Xiaomi Mi8 (b)	Xiaomi Mi8 (c)	Xiaomi Mi11 Lite 5G	OppoReno 3A	
Data 01	Data 02	Data 03	Data 08 Data 09	Data 10	
Data 04	Data 05 Data 06	Data 07			

https://home.csis.u-tokyo.ac.jp/~dinesh/LCHAR.htm

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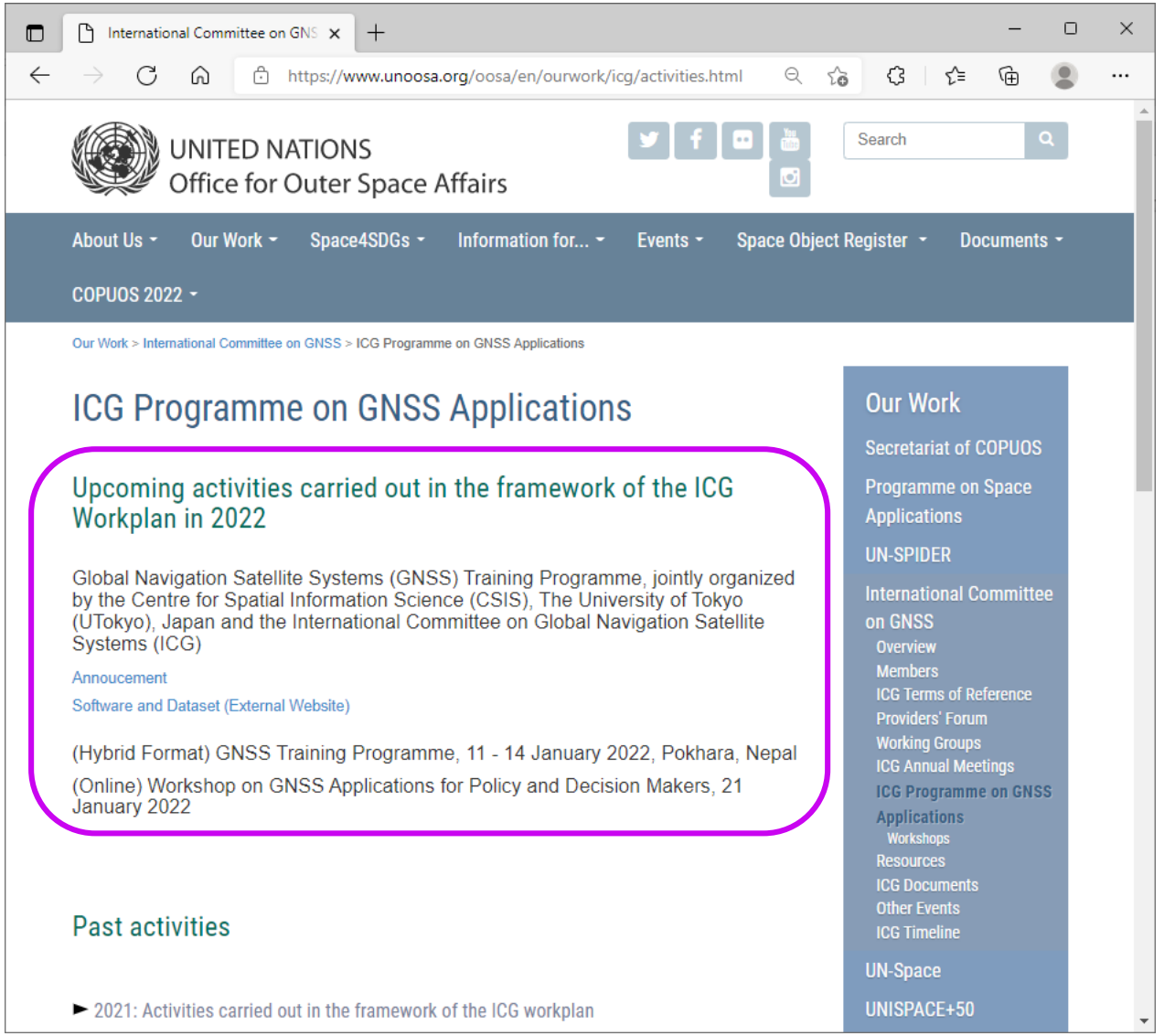
Low-Cost High-Accuracy Receiver Systems

Receiver Systems: Type A, Type B, Type C, Type D

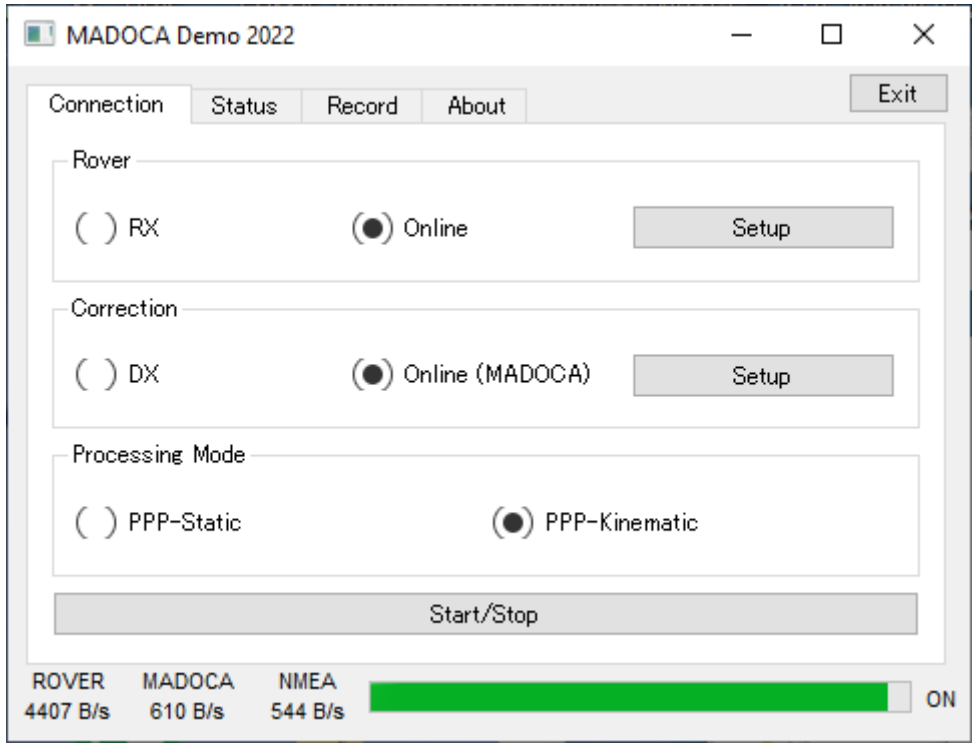
Note: APKs can be downloaded from the following links:
Please send e-mail to dinesh{@}csis.u-tokyo.ac.jp for password.
Following information are necessary:
1. Name
2. Affiliation (Organization Name)
3. Purpose (Optional)

	APK Name	Description
1	RTKDROID (click to download) - Register for Password and Updates	**RTK based on RTKLIB 2.4.3** Receiver Type: Single or Dual Frequency Receiver Receiver and Data Compatibility: u-blox: M8T, M8P, F9P in UBX Format Septentrio in SBF Format Other Receivers in RTCM3 Format Connection: (1) USB using OTG cable with Android Device (2) Bluetooth
2	MAD-WIN for MADOCA PPP (Click to Download)	Please send e-mail to dinesh@csis.u-tokyo.ac.jp for password and user instructions
3	MAD-PI MADOCA PPP based on RaspberryPi device	Please send e-mail to dinesh@csis.u-tokyo.ac.jp for password and user instructions Available only for joint research or project

UNOOSA / ICG Homepage
Presentation files can be downloaded from here.
All resource materials will be available either from ICG or CSIS homepage.



RTKLIB and MAD-WIN Setup

- RTKLIB
  - Download Version 2.4.3 b33, unzip, Goto BIN Folder
  - Double Click RTKLAUNCH.exe to start RTKLIB

- MAD-WIN
  - Unzip password: xxxxxxx
  - Double click Madoca_win.exe file
  - If you have the following message
    - The application was unable to start correctly (0xc000007b). Click OK to close the application
      - Inform us by e-mail
  - Follow-up Day-2 MADOCA PPP demo for additional information