

Data archive GNSS

This module is a large database with publicly available base stations for downloading observation files.

1. To start the module, go to the "Tools" tab, then "GNSS Data Archives" and select the database you need.

The screenshot displays the 'INTERNATIONAL GNSS DATA' application. At the top, there are tabs for 'PPK Post Processing', 'RTK Post Processing', 'LiDAR Post Processing', 'LiDAR Cloud Generation', 'Static Post Processing', 'Precise Point Positioning', 'AQUAMAPPER', and 'Tools'. The 'Tools' tab is active, showing a table of base station data. Below the table is a map of the world with numerous red location pins. On the left side, there is a control panel with various settings and buttons.

Station	Country	Latitude	Longitude	Altitude	Receiver	Antenna	Satellite System
ABMF	GLP	16.262	-61.928	25	SEPT POLARXS	TRM57971.00	GPS+GLO+GAL+BDS+SBAS
ABPO	MDG	-19.018	47.729	1552.992	SEPT POLARXS	ASH701945G_M	GPS+GLO+GAL+BDS+QZSS
AC23	USA	60.478	-150.878	80.301	SEPT POLARXS	TRM59800.00	GPS+GLO+GAL+BDS+QZSS
AC24	USA	59.682	-150.633	99.4	SEPT POLARXS	TRM59800.00	GPS+GLO+GAL+BDS+QZSS
ACRG	GHA	5.641	-0.207	83.4	DAVAD TRE_3S	SEPCHOKE_B3E6	GPS+GLO+GAL+BDS+IRNSS+SBAS
ACSO	USA	40.232	-82.982	249.387	SEPT POLARXS	TRM59800.80	GPS+GLO+GAL+BDS
ADIS	ETH	9.035	38.766	2439.149	LEICA GR50	LEIAR20	GPS+GLO+GAL+BDS+SBAS
ACGO	ARG	-34.874	-58.14	42.085	SEPT POLARSTR	LEIAR25_R4	GPS+GLO+GAL+BDS+SBAS
AIRA	FIN	61.824	150.6	314.64	TRIMBLE ALLOY	TRM59800.00	GPS+GLO+GAL+QZSS
A3AC	FRA	41.927	8.763	98.8	LEICA GR50	TRM15000.00	GPS+GLO+GAL+BDS+QZSS+SBAS
ALBH	CAN	48.39	-123.487	52	SEPT POLARXS	TRM59800.00	GPS+GLO+GAL
ALGO	CAN	45.959	-78.071	202	SEPT POLARXS	AOAD/M_T	GPS+GLO+GAL
ALIC	AUS	23.67	133.886	603.2	SEPT POLARXS	TWIVC650	GPS+GLO+GAL+BDS+QZSS
ALRT	CAN	62.494	-62.34	78.11	SEPT POLARXS	ASH701945D_M	GPS+GLO+GAL
AMC4	USA	38.803	-104.528	191.394	SEPT POLARSTR	TPSRCS	GPS+GLO+GAL+BDS
ANK2	TUR	39.843	32.775	1794.3	TRIMBLE F_NFT19	TRM15000.00	GPS+GLO+GAL+BDS

Specify the RINEX file/files to find out the measurement time interval or set it yourself:

Measurement frequency: 1 sec. 30 sec.

Date: Time:

Recording Start: 0:00

Recording End: 0:00

Output folder:

> Search in the network of operating base stations...
> 320 base stations were found on 10/29/2024.

OpenStreetMap | Lat: Lon:

WAITING FOR ACTION

2. Then download the data from your receiver to have the program select the date and time of the base stations or enter this data manually. Specify the folder where you want to save the result.

Specify the RINEX file/files to find out the measurement time interval or set it yourself: Select

Measurement frequency: 1 sec. 30 sec.

Date: Time:

Recording Start: 9/20/2024 07:00

Recording End: 9/20/2024 08:00

Output folder: Select

- > Search in the network of operating base stations...
- > 520 base stations were found on 10/30/2024
- > The type of base station antenna is not specified in the header of the Rinex file.
- > Parse C:\Users\mbere\Downloads\2024-09-20_07-44-57.obs...
- > APPROX POSITION X = 4388685.5959, Y= 527810.3661, Z= 4584483.9732
- > ANTENNA: DELTA H/E/N = 0
- > TIME OF FIRST OBS = 20/09/2024 7:45:18
- > TIME OF LAST OBS = 20/09/2024 8:15:06

Start Stop

3. In the table or on the map, select the base station from which you want to download data and press the "Start" button, the data download will start in the folder you specified.

INTERNATIONAL GNSS DATA

PPK Post Processing | RTK Post Processing | LIDAR Post Processing | LIDAR Cloud Generation | Static Post Processing | Precise Point Positioning | AQUAMAPPER | Tools | License | Settings

Station	Country	Latitude	Longitude	Altitude	Receiver	Antenna	Satellite System
VAR2	AUS	29.047	115.347	241.3	TRIMBLE ALLOY	AOAD/M_T	GPS+GLO+GAL+BDS+QZSS+IRNSS
VAR3	AUS	29.046	115.347	242.4	SEPT POLARIS	LEIAR25	GPS+GLO+GAL+BDS+QZSS
VAR8	AUS	29.047	115.347	243.3	SEPT POLARIS	LEIAR204	GPS+GLO+GAL+BDS+QZSS+IRNSS
YEBE	ESP	40.525	-3.089	372.8	LEICA GRS0	LEIAR20	GPS+GLO+GAL+BDS
VEL2	CAN	62.481	-114.481	181.008	SEPT POLARISSTR	LEIAR25 R4	GPS+GLO+GAL+BDS+SBAS
VELL	CAN	62.481	-114.481	181	JAVAD TRE_3N DELTA	AOAD/M_T	GPS+GLO+GAL
YIEL	OMN	22.186	56.112	95.1	TRIMBLE NETR9	ASH701945C_M	GPS+GLO
VKRO	CIV	6.871	5.24	270	JAVAD TRE_3 DELTA	ASH701945C_M	GPS+GLO+GAL+BDS
VONS	KOR	37.541	127.001	90.949	TRIMBLE ALLOY	TRIM99800.00	GPS+GLO+GAL
YSSK	RUS	47.03	142.717	91.289	JAVAD TRE_3N DELTA	ASH701933B_M	GPS+GLO
ZAMB	ZMB	-15.426	28.311	1324.914	JAVAD TRE_3 DELTA	AOAD/M_T	GPS+GLO+GAL+BDS
ZECK	RUS	43.788	41.565	1167	JAVAD TRE_3 DELTA	JAVRINGANT_DM	GPS+GLO+GAL
ZIM2	CHE	46.877	7.465	356.5	TRIMBLE NETR9	TRIM99800.00	GPS+GLO+GAL+BDS
ZIM3	CHE	46.877	7.465	356.5	TRIMBLE NETR9	TRIM99800.00	GPS+GLO+GAL+BDS+SBAS
ZIMM	CHE	46.877	7.465	356.4	TRIMBLE NETR9	TRIM99599.00	GPS

Specify the RINEX file/files to find out the measurement time interval or set it yourself. Select

Measurement frequency: 1 sec. 30 sec.

Date: Time:

Recording Start: 9/20/2024 07:00

Recording End: 9/20/2024 08:00

Output folder: Select

- > Search in the network of operating base stations...
- > 300 base stations were found on 10/30/2024.
- > The type of base station antenna is not specified in the header of the Rinex file.
- > Parse C:\Users\mbeni\Downloads\2024-09-20_07-44-57.obs
- > APPROX POSITION W = 4.538895, S = 50.927810, E = 4.589448, I = 5732.
- > ANTENNA, DELTA H/E/N = 0
- > TIME OF FIRST OBS = 2024/09/20 07:45:18
- > TIME OF LAST OBS = 2024/09/20 08:15:06
- > Measured distance = 79775.95 meters

Start Stop

OpenStreetMap | Lat: 46.6192610362 | Lon: 7.53366210938 | Go To | Markers | Clear | Fit

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Revision #5

Created 6 August 2024 14:36:31 by TOPODRONE SUPPORT

Updated 26 November 2025 15:40:56 by TOPODRONE SUPPORT