Supporting Information for Cost-efficient multi-GNSS station with real-time transmission for geodynamics applications

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The supporting figures provided herein help to illustrate the results of the main text.
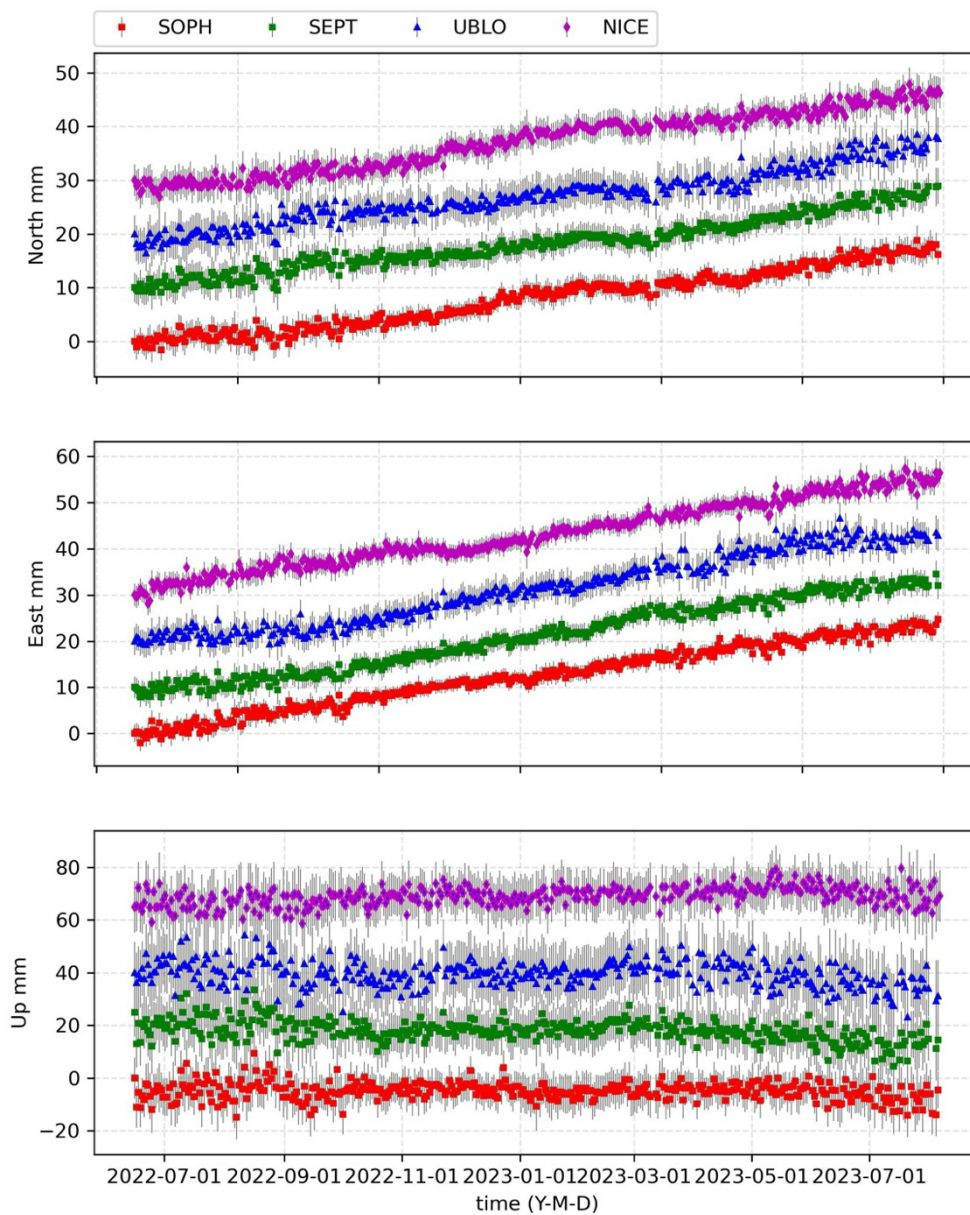

Figure S1: Daily position time series relative to ITRF14 for the NICE, SOPH, SEPT, and UBLO sites. The time series corresponds to the solution of the GPS constellation, estimated with the Gamit & Globk software (ver 10.71).
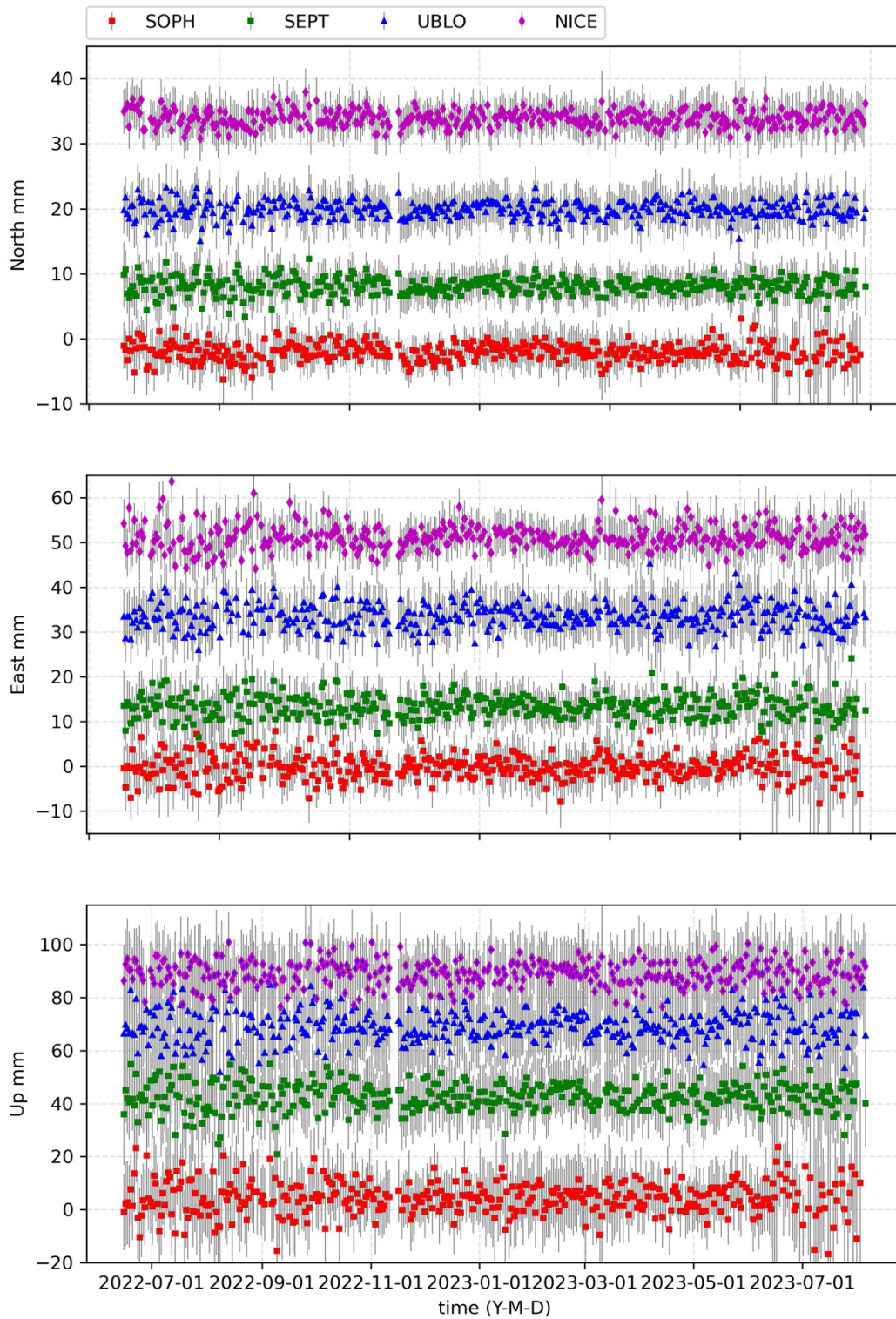
Figure S2: Detrended daily position time series relative to ITRF14 for the NICE, SOPH, SEPT, and UBLO sites. The time series corresponds to the solution of the GLONASS constellation, estimated with the Gamit & Globk software (ver 10.71).
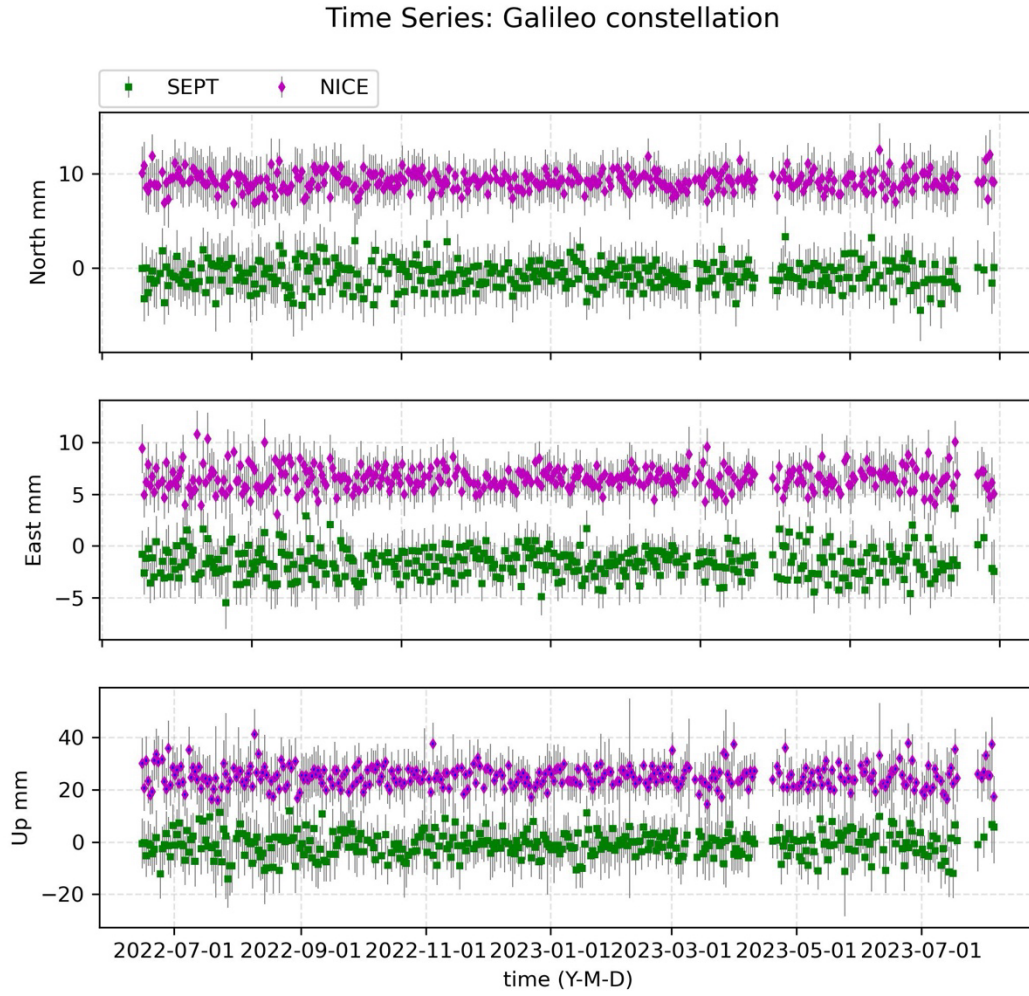
Figure S3: Detrended daily position time series relative to ITRF14 for the NICE and SEPT sites. The time series corresponds to the solution of the Galileo constellation, estimated with the Gamit & Globk software (ver 10.71).

Table S1: Summary of residual values from the low-cost and high-class geodetic stations described in the main text and other high-class geodetic stations used to process GNSS observations from Gamit & Globk. The time interval used to estimate wmrs values is over 1.1 years of observations, as described in the main text.

Site	Longitude	Latitude	WRMS (mm/yr)								
			GPS			GLONASS			Galileo		
			N	E	U	N	E	U	N	E	U
SOPH	7.0541	43.6114	1.0	1.2	2.9	2.1	2.7	6.9			
SEPT	7.0540	43.6114	1.1	1.5	4.1	2.0	2.8	7.2	1.5	2.1	4.5
UBLO	7.0540	43.6114	2.5	1.7	5.2	2.3	3.8	7.2			
NICE	7.3000	43.7255	1.9	1.2	3.2	1.6	3.5	6.3	1.2	2.5	6.0
TLSG	1.4850	43.5497	2.0	1.0	2.3	1.9	3.6	7.0	0.9	1.0	6.7
MARS	5.3530	43.2788	3.4	3.2	5.8	1.5	5.6	8.5	3.0	2.0	11.4
REDU	5.1449	50.0015	1.6	1.4	4.0	1.9	3.2	4.5	2.6	1.8	14.4
MICH	5.7174	43.9242	1.0	1.1	3.3	1.7	4.3	4.3			
RABU	6.9771	44.2678	1.7	2.4	4.3	2.3	6.9	7.4	2.4	3.2	6.5
KOS1	5.8182	52.1734	1.1	1.1	3.2	2.6	2.4	5.9	0.9	1.3	4.3
PADO	11.8961	45.4112	1.1	1.6	3.2	1.5	2.1	3.2	2.0	1.6	3.6
BZR2	11.3382	46.4958	1.5	1.5	3.3	1.2	3.6	5.3	0.9	1.5	4.9
BRST	-4.4966	48.3805	2.3	1.9	10.7	3.1	2.6	4.6	2.2	2.4	7.4
VILL	-3.9520	40.4436	1.2	1.0	7.1	2.4	4.1	6.0	1.2	3.3	4.8