

1) Validated / official products

No.	Product	Class	Sub-Class	Accuracy	Latency	Updates	Links
1	Definition of ETRS89	Reference System and Frame	Definition	1 cm	-	-	ETRS89 homepage
2	Definition of EVRS	Reference System and Frame	Definition	1 cm	-	-	EVRS homepage
3	Transformation between ETRS89 and ITRS	Reference System and Frame	Transformation Parameter	1 cm	-	Simultaneous with new ITRF realization	ETRS89/ITRS transformation
4	CRS - Transformation between national coordinate system and ETRS89	Reference System and Frame	Transformation Parameter	1 m	-	According supply by countries	CRS homepage
5	CRS - Transformation between National Height system and EVRS	Reference System and Frame	Transformation Parameter	1 - 10 cm	-	According supply by countries	CRS homepage
NEW	ETRF/ITRF transformation	Reference System and Frame	Transformation Service	1 cm	Few seconds	On request	EPN coordinate transformation service
10	EPN station coordinates Class A	Station	Coordinate	1 cm	15 weeks	15 weeks	EPN coordinates
11	EPN station velocities Class A	Station	Velocity	~ 1 mm /year uncertainty	15 weeks	15 weeks	EPN coordinates
12	EPN station coordinates Class B	Station	Coordinate	> 1 cm	15 weeks	15 weeks	EPN coordinates
6	Weekly coordinates of EPN stations	Station	Coordinate	0.5 - 1.5 cm	5 weeks	weekly	Weekly EPN solutions

No.	Product	Class	Sub-Class	Accuracy	Latency	Updates	Links
NEW (postponed)	EPN station position time series	Station	Coordinate	1 cm	15 weeks	15 weeks	EPN position time series
14	Station coordinates of validated EUREF campaigns	Station	Coordinate	1 - 5 cm	1 year	-	EUREF campaigns
16	EVRF2007	Station	Physical Height	1 - 5 cm	-	5 - 10 years	EVRF2007
17	EUVN-DA	Station	Physical Height	1 - 10 cm	-	5 - 10 years	EUVN-DA
21	Hourly troposphere parameters for EPN stations	Station	Troposphere	4 mm	3 weeks	weekly	EPN tropospheric delays
22	GNSS broadcast satellite orbit correction	Satellite	Orbit	10 - 15 cm	real-time	10 sec.	ASI broadcaster BKG broadcaster ROB broadcaster
23	GNSS satellite clock correction	Satellite	Clock	0.3 ns	real-time	10 sec.	ASI broadcaster BKG broadcaster ROB broadcaster

2) Observational & meta data

No.	Product	Class	Sub-Class	Accuracy	Latency	Updates	Links
20	Daily observation files of EPN stations	Observation	Data File	-	30 min	daily	BKG data centre OLG data centre ROB historical data centre
19	Hourly observation files of EPN stations	Observation	Data File	-	5 - 15 min	hourly	BKG data centre OLG data centre
18	Real-time observations of EPN stations using NTRIP	Observation	Data Stream	-	real-time	real-time	EPN real-time page ASI broadcaster BKG broadcaster ROB broadcaster
NEW	Highrate observation files of EPN stations	Observation	Data File	-	5 - 10 min	Quarter of an hour	BKG data centre OLG data centre
NEW	Meta data and monitoring of EPN stations	Station		-	Few minutes	According to notification by station provider	EPN station list
New	Station site log validation	Station			Few seconds	On request	EPN CB station sitelog check

3) Internal and other products / monitoring

No.	Product	Class	Sub-Class	Accuracy	Latency	Updates	Links
7	Daily coordinates of EPN stations	Station	Coordinate	0.5 - 1.5 cm	3 weeks	daily	Daily EPN solutions
8	Rapid daily coordinates of EPN stations	Station	Coordinate	1 - 2 cm	1 day	daily	BKG data centre
9- >remove	Hourly coordinates of EPN stations	Station	Coordinate	5 - 10 cm	1 hour	hourly	BKG data centre
15 >remove	EPN sub-network solution as contribution to the TIGA Project of IGS	Station	Coordinate	0.5 - 1.5 cm	3 weeks	weekly	
NEW	Site information of EPN stations	Station				daily or after configuration change	EPN site info

4) EUREF Standardization and Guidelines

No.	Product	Class	Sub-Class	Accuracy	Latency	Updates	Links
NEW	Guidelines for EPN stations	Station				If necessary	EPN guidelines (download)
NEW	Guidelines for EPN Data Centres	-				If necessary	EPN guidelines (download)
NEW	Guidelines for EPN Analysis Centres	-				If necessary	EPN guidelines (download)
New	Guidelines for EUREF densifications	Station				If necessary	EUREF guidelines (download)