

Belgian National Report

EUREF related activities of:

- National Geographical Institute
- Royal Observatory of Belgium



Official ETRF coordinates in Belgium

Short history

- First set derived from 1989 campaign
- 1994: LuxBD campaign including 4 permanent stations (ROB)
- 2002: Nationwide campaign to integrate all the RTK reference stations

Official ETRF coordinates in Belgium

Processing strategy in 2002

- For the four Belgian EPN stations : ITRF2000 coordinates from ITRF website
- ITRF2000 coordinates at mean epoch of observations were fully constrained during the network adjustment
- Results have been transformed to ETRS89 following the guidelines of the memo on specifications for reference frame fixing (Boucher & Altamimi)

Comparison of ETRF2000 coordinates

EPN Station		EPN solution Epoch 2000.0	Official Belgian solution	Δ (mm)
Brus	X	4027894.009	4027894.013	4
	Y	307045.602	307045.600	-2
	Z	4919474.909	4919474.914	5
Dent	X	4020711.732	4020711.725	-7
	Y	238850.884	238850.884	0
	Z	4928949.436	4928949.430	-6
Dour	X	4086778.412	4086778.412	0
	Y	328451.756	328451.750	-6
	Z	4869782.419	4869782.419	0
Ware	X	4031947.459	4031947.456	-3
	Y	370150.810	370150.808	-2
	Z	4911905.773	4911905.767	-6

	Δ (mm)
East	-3
North	0
Up	6
East	0
North	2
Up	-9
East	-6
North	0
Up	0
East	-2
North	-1
Up	-7