



GNSS station displacement analysis

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Time series of GNSS station results of both the EUPOS[®]-Riga and LatPos networks have been developed at the Institute of Geodesy and Geoinformation (University of Latvia). The reference stations from EUREF Permanent Network (EPN) in surroundings of Latvia have been used and Bernese GPS Software, Version 5.0, in both static and kinematic modes was applied. The standard data sets were taken from IGS data base.

The results of time series have been analysed and distinctive behaviour of daily and subdaily movements of EUPOS[®]-Riga and LatPos stations was identified.

The reasons of dependence of GNSS station coordinate distribution on possible external factors such as seismic activity of some areas of Latvia and periodic processes were given.