

Crustal deformation models for semi-dynamic datum

Yoshiyuki Tanaka[1]; Shigeru Matsuzaka[1]; Mikio Tobita[1]; Hiromichi Tsuji[1]; Yuki Hatanaka[2]; Tetsuro Imakiire[1]

[1] GSI; [2] Geographical Survey Institute

The Geographical Survey Institute (GSI) has published the Japan Geodetic Datum 2000 (JGD 2000) since April, 2002. Because the published coordinates of the control points are based on the coordinates at 1997.0, the results of current surveys based on the control points are affected by the crustal deformation which has accumulated from the original epoch to the current epoch. In order to maintain the consistency between present GPS surveys and the geodetic datum, the crustal deformation has to be modeled and corrected. In this presentation, we will introduce some methods for the spatial interpolation of the coordinates obtained at the continuous GPS observational points.