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Making comparison of coordinates obtained from Bernese GPS software for interior stations based on selected datum's kind

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Abstract

The Bernese GPS software is a suitable tool for geodetic and other applications using GNSS systems. This software is highly accurate and flexible source for post processing package. One of the most important applications of control networks is to create coordinate data sets for the analysis of GPS observations by using Bernese GPS software. In this article we have chosen 30 interior stations (NCC) and five outer stations (IGS). These IGS stations have precise coordinates. In this paper we use different datum for processing data. The datum was processed for instance 'Free network solution [U+060C] Coordinates fixed [U+060C] Coordinates constraint'. One of the results of this investigation is: The achieved values obtained from of free network solution are less than fixed coordinates.

Key words: Bernese GPS software, IGS, datum, coordinate, station, processing