



Improved ultra-rapid orbits by Geodetic Observatory Pecny

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The near real-time analysis of the global GPS network at Geodetic Observatory Pecny (GOP) contributes to the ultra-rapid orbit products of the International GNSS Service (IGS). The last developments in our processing strategy is described.

Besides achieving high quality of the product, the main focus is given also to the efficiency of our analysis to enable high rate product updates (up to hourly solutions). Additionally, a specific "ultra" ultra-rapid solution was developed, which can be available within 15 minutes after the data acquisition. The IGS real-time data support is incorporated in our processing.

The improvements were implemented in 2006 and a half-year backward evaluation of all estimated parameters with respect to the IGS final product is presented.