



CODE Contribution to IGS Reprocessing: Status and Perspectives

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Since 1992, the Center for Orbit Determination in Europe (CODE) is operated by Astronomisches Institut, Universität Bern (AIUB, Switzerland) in cooperation with the Bundesamt für Landestopographie (swisstopo, Switzerland), the Bundesamt für Kartographie und Geodäsie (BKG, Germany), and the Institut für Astronomische und Physikalische Geodäsie (IAPG) of Technische Universität München (TUM, Germany). Since the very beginning, CODE is an analysis center of the International GNSS Service (IGS).

The operational CODE processing is a rigorous GNSS analysis including GPS and GLONASS for all product lines of the IGS. The first CODE reprocessing run covers the time period January 1994 till December 2008. About 240 stations are included in the processing. Following the IGS guidelines for the current reprocessing effort, the analysis is limited to GPS. An extension to GLONASS is planned for the near future. Although these reprocessing activities are mainly performed by IAPG, full consistency with the current modeling setup of the operational CODE processing is realized.

We will describe the processing strategy of the CODE GPS reprocessing and present selected results. The benefits of the reprocessing are demonstrated by comparisons with the operational CODE products and the results from the reprocessing efforts of other groups, e.g. the Potsdam Dresden Reprocessing (PDR). A special focus is put on the combination and realignment of P1-C1 differential code biases (DCBs).