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The 2007 reprocessing of CEGRN: Improvement of the GPS campaign adjustments by the use of the latest ITRF and IGS processing standards

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The nine GPS campaigns of the Central European GPS Geodynamic Reference Network (CEGRN), observed between 1994 and 2007, provide both a common reference frame and the basis for investigating the geokinematics in Central Europe. The up to now last (re)processing with unique and at that time current settings was done in 2002. With the publishing of ITRF2005 - which among other correction changes also implies the change from relative to absolute antenna calibrations - the need of a complete reprocessing arose. CEGRN reprocessing guidelines, considering these and further developments, were compiled therefore. In a great effort the CEGRN analysis centres evaluated the new epoch campaign CEGRN07 and reprocessed also all previous campaigns according to these guidelines. This presentation gives an overview about the contributing solutions of the analysis centres. It reports furthermore on their subsequent processing to produce firstly homogeneous CEGRN campaign solutions and secondly a new velocity estimation by a multi-year combination. Improvements and critical issues of the combination are discussed.