Geophysical Research Abstracts
Vol. 12, EGU2010-6771-1, 2010
EGU General Assembly 2010

Optical observations of navigation satellites for determination of dynamical reference frames deflections

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Three summer sessions of optical observations of GNSS satellites were
taken at Terskol observatory. GPS and GLONASS satellites were photographed among stars during their crossing of celestial equator. Optical coordinates were determined and used as reference values for intercomparison of dynamical reference frame of GPS satellites against the dynamical reference frame of GLONASS satellites. Possible differences of two dynamical reference frames may cause
additional errors during joint processing of GNSS satellites observations and should be taken into account. Some results are presented. Sources of possible errors are analysed.