



Determination of terrestrial and celestial reference frames with the Vienna VLBI Software VieVS

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The Vienna VLBI Software (VieVS) has been developed at the Institute of Geodesy and Geophysics at TU Vienna since 2008. In this poster, we present the module Vie_glob which is the part of VieVS that allows the parameter estimation from multiple VLBI sessions in a so-called global solution. We focus on the determination of terrestrial and celestial reference frames (TRF and CRF) using all suitable VLBI sessions since 1984. We compare different analysis options like the choice of loading corrections or models for the tropospheric delays. Time series of station positions (using a previously determined TRF as a priori values) are presented and compared to other estimates of sites positions from individual IVS (International VLBI Service for Geodesy and Astrometry) Analysis Centers.