Geophysical Research Abstracts, Vol. 7, 02593, 2005
SRef-ID: 1607-7962/gra/EGU05-A-02593

Free Core Nutation: Direct Observations and Resonance Effects

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We have found recently, from the direct analysis of VLBI observations of celestial pole offsets from IAU2000 model of precession-nutation, that the period of Free Core Nutation (FCN) apparently grew from original 435 days to 460 days during the past ten years (Vondrak et al., AGU Fall Meeting 2004). At the same time, we also derived corrections of certain nutation terms from the GPS/VLBI combined solution. A study of indirect determination of FCN period from the corrected nutation terms through the resonance effects will be presented, and the differences between the results of these two approaches will be discussed.