Geophysical Research Abstracts,
Vol. 10, EGU2008-A-03920, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-03920
EGU General Assembly 2008

Monitoring the consistency between ITRF2005 and IERS Earth Orientation Parameters

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The objective of the presentation is the monitoring of the evolution of consistency with time between both the ITRF2005 and IERS 05 C04. Since both products are performed separately, it can be feared that small inconsistencies arise and increase with time between both entities. This monitoring is now regularly done. The previous studies made in September 2007 for polar motion, show small inconsistencies at the level of 30 microarseconds, smaller than the estimated noise. The new analyses were made in the first months of 2008. Combining additional input time series after the release of ITRF2005 from the four techniques (VLBI, SLR, GPS and DORIS) allows the assessment of two main procedures: (1) using CATREF combination model and (2) using EOP-only combination method as it is done at the EOP product centre. The main features of the two combination strategies are presented together with numerical estimates. Comparisons of results obtained by the two procedures are discussed in an attempt to evaluate the current accuracy of EOP determination by space geodesy techniques and to guide our conclusion for future development