

Current status of the ITRS realization

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Up to the ITRF2000, global long-term solutions were submitted by the analysis centers of the four techniques (VLBI, SLR, GPS, DORIS) for the ITRS realization. Starting with the ITRF2005, time series of station positions (weekly from satellite techniques and daily from VLBI) and Earth Orientation Parameters (EOPs) are the current ingredients of the ITRF construction. Time series are in fact the official combined solutions at the daily/weekly basis of the Technique Centers, with the exception of DORIS for which a combination center is not yet established. We focus in this paper on the main characteristics of the current ITRF formation, recalling the features of the combination model and its application for the stacking of time series or the combination of long-term solutions. Lessons from the ITRF2005 and future developments are discussed and illustrated by the most up to date analysis of the available time series of the 4 techniques.