



The ITRF: Lessons from ITRF2008 and future developments

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The up to date ITRF solution, namely the ITRF2008, incorporates reprocessed solutions from the four main space geodesy techniques (VLBI, SLR, GPS, DORIS) as well as local ties in co-location sites. After an evaluation of the main ITRF2008 features, and in particular its performance compared to ITRF2005, we investigate possible ways for future developments and improvements. The evaluation process will include a quantitative reassessment of the accuracy of its datum specification elements (origin, scale and orientation time evolution), as well as a precise estimation of linear crustal motion, on both components: horizontal (induced by tectonic plate motion) and vertical (caused by e.g. Post Glacial Rebound - PGR). The results of this study will guide our recommendations for future developments and improvements.