



Preliminary analysis in preparation for the ITRF2013

Zuheir Altamimi, Xavier Collilieux, and Laurent Métivier

Institut national de l'information géographique et forestière, LAREG - Université Paris Diderot, Paris, France
(zuheir.altamimi@ign.fr)

ITRF2013 is intended to be the next version of the International Terrestrial Reference Frame (ITRF) to be released by mid 2014. It will be constructed upon reprocessed solutions provided by the Technique Centers of the four geodetic techniques (VLBI, SLR, GPS, DORIS), and local ties at co-location sites.

To that end, we operate preparatory analysis and enhancement of the CATREF combination software targeted towards and improved ITRF2013 solution. Selected results of these preliminary analysis will be presented and discussed, focusing on the accuracy of the combined reference frame, including: impact of weighting and selection of local ties; evaluation of the accuracy of the origin and the scale using extended input data beyond the ITRF2008; impact of applying non-tidal atmospheric loading corrections on station positions, velocities and Earth Orientation Parameters.