

3.5.5 ITRS Centre

Contribution to the IERS Conventions

A new and complete chapter on the ITRS is now available, describing the mathematical theoretical definition and realization of the ITRS. It includes a full description of the ITRF versions, emphasizing on the ITRF2000, the Current Reference Realization of the ITRS.

ITRF Working Groups Activities

- IERS Working Group on the ITRF Datum: this group, chaired by Kristine Larson, continues his activities under a discussion forum between the members, essentially on the ITRF datum definition, in terms of rotational datum (sub-group chaired by Geoff Blewitt) and Geocentre Motion (sub-group chaired by Mike Watkins). A dedicated web site is available: <http://phys-geophys.colorado.edu/~kristine/ITRF/ITRF.html>. A special AGU Fall 2001 session was devoted to the TRF issues, convened by K. Larson and Z. Altamimi.
- Working Group on Local Ties: this group is created under the IAG/CSTG, chaired by Jim Long, taking over the activities of John Bosworth. Progress is made on documentation of local survey specification as well as on new surveys on some collocation sites.

Relation With the IGS

The ITRS Centre contributes to specifications for ITRF densification, initiated by the IGS for its part (regional solutions of weekly permanent GPS station positions). Work is still in progress for evaluation/comparison of the different proposed densification approaches.

Maintenance of the IERS Network

This activity includes update of the IERS network database in terms of new sites and stations, assignment of DOMES numbers, local ties, availability of IERS network information and ITRF products on the web and ftp server, as well as assisting the ITRF users for a proper use of ITRF products. Moreover, a new ITRS web site is developed and it is under its validation phase. This new web site will provide site information, station positions (at any epoch) and velocities in any ITRF version in SINEX or/and table list.

For more information, see also the report of the ITRS Combination Centre at IGN (section 3.6.1.2) and the report of the Combination Research Centre at IGN (section 3.6.2.9).

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