This report summarizes the activities of the IERS ITRS Centre during the year 2011.

**Maintenance of the IERS network**

The ITRS Centre assigns DOMES numbers to geodetic tracking stations or markers as unambiguous identifications of points in space, independently from the technique of their tracking instruments.

The IERS network database, which contains the descriptions of the sites and points, is continuously updated as DOMES numbers are assigned. DOMES number request form can be found on the ITRF web site <http://itrf.ign.fr>, and should be sent to domes@ign.fr. An updated list of all available DOMES number is available at <http://itrf.ign.fr/doc_ITRF/iers_sta_list.txt>. The IERS site information is available to the users through the ITRF website interface (see below).

**ITRF web site**

The ITRF web site, available at <http://itrf.ign.fr>, provides an interface to consult the IERS network database. Site and point information can be requested online; it contains approximate coordinates of the sites, the list of their points as well as their descriptions, their DOMES numbers and the list of ITRF versions in which they have been computed. Subsets of points can be selected and their ITRF coordinates can be requested at any epoch in any ITRF version if their coordinates are provided in the requested ITRF version.

The maps of the ITRF networks can be displayed depending on the measurement techniques and of the ITRF realization. Velocity vectors can be displayed as well as tectonic plates. The dynamical map can help users to familiarize with ITRF products and can be used for educational purpose. It can also be an interesting tool to select IERS sub-network depending on the measurement techniques, co-located hosted instruments or ITRF versions. ITRF94, ITRF96, ITRF97, ITRF2000, ITRF2005 and ITRF2008 solutions are available for download.

**Preparation for a new ITRF web site**

The ITRS Centre has started in 2011 the initial study analysis and preparation for a new design of the ITRF web site. It will be designed to provide more ITRF-related information to the users using more user-friendly interfaces. The specification document will be ready in 2012 and the development will start in 2013. The new web site is expected to be operational beginning 2014.

**Local ties of ITRF co-location sites**

The ITRS Centre collects all new surveys operated by either IGN or the hosting agencies of ITRF co-location sites. The reports of these surveys are posted at the ITRF Website and available to users.
Other activities

- Participation in most meetings of the analysis working groups of the Technique Centres (in 2011: IDS, IGS, ILRS);
- Convening and organizing an EGU session: Improved Terrestrial Reference Frames for Higher-Accuracy Applications;
- Participation and contribution to the IERS Unified Analysis Workshop held in Zurich, 16–17 September, 2011;
- Participation in the 6th meeting of the International Committee on GNSS held in Tokyo, 5–9 September, 2011.

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