3.6.2 Institut National de l'Information Géographique et Forestière (IGN)

This report summarizes the activities of the IGN combination centre during the year 2011. These activities are mainly related to the publication of the ITRF2008 results.

ITRF2008 publications

A detailed article on ITRF2008 results was prepared and published in Journal of Geodesy with the "open access" option so that the ITRF2008 users have full and free access to the details of the ITRF2008 analysis and results.

During 2011, detailed analyses of the ITRF2008 velocity field were undertaken in order to estimate a plate motion model consistent with ITRF2008. Indeed, for various geodetic and geophysical applications of ITRF2008, the aim of this study is to provide users with the most precise plate motion model derived from and consistent with the ITRF2008. An article with the title "ITRF2008 Plate Motion Model" was submitted to Journal of Geophysical Research in October 2011. More details about the results of this study will be summarized in the IERS Annual Report 2012.

Research and development activities

The members of the IGN CC, often in cooperation with other scientists, conduct research and developments activities relating to the ITRF in particular and reference frames in general. R&D activities include ITRF accuracy evaluation, mean sea level, loading effects, combination strategies, and maintenance and update of CATREF software. Scientific results of specific data analysis and combination are published in peer-reviewed journals, as listed in the references' section, but also presented at international scientific meetings.

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Zuheir Altamimi, Xavier Collilieux, Laurent Métivier