



## ITRF2008 Plate Motion Model

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Quality assessment of ITRF2008 solution has been undertaken, indicating the well performance of ITRF2008 determination of station positions and velocities, compared to past solutions, including ITRF2005. As a by-product, we estimated rotation poles for 15 tectonic plates, using a velocity field composed of more than 250 sites with long observation history. The main criteria selection are (1) the velocity formal error is less than 0.5 mm/yr and (2) the post fit residuals should not exceed the threshold of 1.5 mm/yr for each site. We examine the quality of the TRF2008 Plate Motion Model using different possible estimation options and by comparisons to other existing models. We also evaluate the impact of correcting or not horizontal post glacial rebound effects before rotation pole estimation.