



## **The ITRS/ITRF concepts and the IERS Conventions**

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The realization of the International Terrestrial Reference System (ITRS) has shown continuous progresses since its initiation in 1988. This is translated in the regular refinement of conceptual definition as well as data analysis strategy, both at the level of individual analysis centers providing input data and at the level of combinations. Succeeding the present ITRF2000 solution, the determination of a new global solution, ITRF2004 is on its way within IERS.

Furthermore, ITRF products are more and more widely used by numerous application fields. It is therefore highly important to provide openly the full range of information needed to do the best utilization of the ITRF and other IERS products .

A complete and up-to-date information about ITRS/ITRF is therefore mandatory in the IERS Conventions.

A survey of the various issues is presented, including the conceptual definition of system and frame, the physical models affection site motions, as well as the datum definition (origin, scale and orientation).