
A "Web Service" to Compare Geodetic Time Series

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Abstract

We have developed a geodetic database built on the concept of "Virtual Observatory" (<http://www.ivoa.net>). These time series come from our solutions of Earth Orientation Parameters, stations coordinates and velocities, polar motion, and start at the beginning of the 1990's. Solutions deduced from various techniques are available (SLR data, combined or not...)

This tool enables one to directly compare, in an easy, homogeneous and coherent way, results coming, for example, from various groups. One of the scientific goals consists in making different results be comparable one from another, and to check, for example, if there is or not systematic differences, or if the used reference frames are fully compatible or not.

I will show how this database works (directly through the Web, if it is possible), and I will mention some interesting scientific applications for the future.