

GSFC/NASA DORIS CONTRIBUTION TO ITRF2008

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Abstract

DORIS is one of the four space geodesy techniques entering in the realization of the International Terrestrial Reference Frame (ITRF). Until currently, two DORIS analysis centers submitted individual contributions to ITRF. For its next realization, the International DORIS Service (IDS) will submit a combined solution of the different DORIS analysis centers, including some new analysis centers such as the Geodetic Observatory Pecny (GOP), and the European Space Operations Center (ESOC).

The Goddard Space Flight Center is also proposing to submit SINEX solutions for a DORIS combination in preparation for ITRF2008. Using the NASA Goddard GEODYN/SOLVE package, SINEX solutions are given, covering five years of data from 2003 to 2007 for each of the available DORIS satellites: the SPOTs satellites (from 2 to 5), Jason-1 and Envisat. This presentation will focus on the analysis strategy, listing the parameters and the models used. We will show some analysis of the results (orbits, station positions, geocenter motion) and comparisons with some other DORIS solutions.