

Towards ITRF2008:- Status of DORIS Data Processing at Geoscience Australia

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As part of the IDS contribution to the ITRF2008, DORIS data for five satellites (SPOT-2, SPOT-4, SPOT-5, Jason-1 and Envisat) have been processed for the period beginning 2002 to end 2007 – producing weekly SINEX files. In addition, SLR data to Jason-1 and Envisat for the period beginning 2002 to mid 2008 have been processed in weekly arcs. The Geodyn0712 / Solve package is used for the data processing of the individual satellite arcs and final combination of the normal equations; with the computation standards being consistent with the IERS2003 conventions. The results are presented as (a) orbit fits for the individual satellites (DORIS and SLR), (b) a comparison with the DORIS orbits computed at the GSFC, (c) a comparison of DORIS and SLR determined orbits for Jason-1 and Envisat and, (d) geocentre variations as determined by DORIS only and a combination of DORIS/SLR.