A Comparison of SLR and DORIS Intra-Technique Combinations to the Space Geodetic Observations Currently Used in the IERS Bulletin A

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The IERS Rapid Service/Prediction (RS/P) center combines over 2700 EOP observations produced from space geodetic technique observations, such as Satellite Laser Ranging (SLR), Global Positioning System (GPS), and Very Long Baseline Interferometry (VLBI), to produce daily EOP solutions with predictions. Because the IERS customers accuracy requirements for predictions are always changing, the RS/P center is constantly looking for better observations and methods to meet these needs. Currently, the technique services have started offering minimally constrained EOP series produced by intra-technique combinations. This study compares the intra-technique EOP series from the International Laser Ranging Service, and the International DORIS Service to the EOP time series that are currently used in IERS Bulletin A and to excitation functions computed from atmospheric and oceanic angular momentum estimates from global numerical models.