

Local Surveys at Goddard

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ABSTRACT

This poster will provide a summary of the on-going local survey projects and recent results at the Goddard Geophysical and Astronomic Observatory (GGAO). The GGAO fills an important role for the realization of the International Terrestrial Reference Frame (ITRF) because of the four collocated geodetic space techniques, SLR, VLBI, GPS, and DORIS. Precise local survey ties, which determine the relative positions of the collocated space techniques, are critical to the combination of the different techniques in the ITRF solutions. Also the local survey projects at GGAO provide the accurate relative positions of the SLR ground calibration targets necessary to establish the operational calibration ranges used by the SLR system, MOBLAS 7. The poster will include a description of the GGAO survey control network, a description of the survey equipment and methods utilized, and a description of the survey data results and analysis.