6 System Biases session B: station issues

Chair: I. Prochazka, J. Eckl

6.1 Improving the Local Ties of a Fundamental Station by a Multi-Technique Ground Target

J. Kodet (1), U. Schreiber (1), J. Eckl (2), G. Herold (2), G. Kronschnabl (2), C. Plötz (2), A.Neidhardt (1), S. Mähler (2), T. Schüler (2), T. Klügel (2)

(1) Technische Universitaet Muenchen, Geodetic Observatory Wettzell
(2) Federal Agency for Cartography and Geodesy, Geodetic Observatory Wettzell

Variable System delays are an important error source for the techniques of space geodesy, such as SLR, VLBI, GNSS and DORIS. Therefore it is important to co-locate the various measurement systems in order to find and remove these systematic errors by comparing the different instruments. The Geodetic Observatory Wettzell is in a favorable position because it operates 2 SLR and 3 VLBI systems along with several GNSS receivers.
We have designed a local ground target, which is tying all these different measurement systems to a single point on the observatory, allowing regular intra- and inter- technique comparisons between all the available measurement techniques. This talk outlines the concept of the multi-technique ground target, introduces the design properties and shows the first experimental results.