



Delay Model Comparison for GNSS-VLBI Hybrid Observations

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A 24-hour validation experiment of the GNSS-VLBI Hybrid System, which integrates VLBI and GNSS techniques at the hardware level, was carried out in 2009. GNSS data were stably and simultaneously generated by the VLBI system for every GNSS satellite in the sky. In particular, GNSS signals were sampled, recorded, and correlated with the same system which is used for VLBI so that VLBI-like group delays were acquired for GNSS observations. In order to analyse those data, we need a corresponding light path difference model for obtaining accurate geometric delays of GNSS satellite signals. In this presentation, we calculate the respective geometric delays following different formalisms given in literature and compare their values.