

CONTRIBUTION OF MODELING DIFFERENCES TO SYSTEMATIC ERRORS OF THE CELESTIAL REFERENCE FRAME: MODEST/CALC/GLORIA

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Systematic differences between the radio source positions **derived** from diverse analyses can approach the level of the formal **statistical** errors **a few tenths of a milliarcsecond**. Some of the possible **causes** of such systematic differences are: different observing networks, different choices of models, and modeling software differences. In order to **isolate** the contribution of the last of these components, detailed comparisons of theoretical delay values are made for the GSFC, JPL, and Paris Observatory software packages Calc, Modest, and Gloria. It is concluded that software differences for identical choices of model components do not exceed 0.1 mas.