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DOR Local-correlation Delay Model Calculation Experiment in CE-3 Mission

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Content :

The beacon of CE-3 satellite have several tones for communication and VLBI tracking. In order to improve data transferring and processing efficiency, we tried the local-correlation method which was different from the one used in CE-3 project. The Time delay model used in local-correlation experiment also differed from normal time delay model. The result shows that there are a few dozen meters of discrepancy between orbit determination result and reference orbit. The equivalent delay difference is less than 1 ns.

Primary authors : HUANG, Yidan (Shanghai Astronomical Observatory) ; ZHENG, Weimin (Shanghai Astronomical Observatory) ; MA, Maoli (Shanghai Astronomical Observatory)

Co-authors :

Presenter : HUANG, Yidan (Shanghai Astronomical Observatory)

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