

A comparison of different ocean tides models

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Ocean tide models are an important constituent in precise orbit determination (POD) of nearEarth satellites since these effects influence both the station positions of ground-based observing stations and the satellite orbit itself. Ocean tide models express periodic variations based on amplitudes and phases of main tidal frequencies (main waves) and an interpolation of smaller tides (secondary waves). In recent years, different models were generated (e.g., EOT11a, FES2014, EOT20). We will present results regarding the performance of these models based on POD results of low Earth orbiting satellites.