

Observation Planning Software for FIMS

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Observation planning in space observation is an important technique to ensure spacecraft health and safety and to maximize observation efficiency and instrument performance. Planning objectives include analysis of observational constraints, sky coverage monitoring, observation sequence and priority for selected targets, and minimization of data loss. Basic algorithm and preliminary results of FIMS observation simulation will be presented. Two year of FIMS baseline mission is composed of sky survey and pointed observations, and earth monitoring for space physic research. Necessary software components and observational constraints for each operation mode will be discussed. We will also discuss possible orbit distribution schemes for both maximizing sky coverage and keeping allocated orbits for both astrophysics and space science.