

ジオスペース探査 ERG プロジェクト

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Geospace Exploration Project ERG

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The ERG (Energization and Radiation in Geospace) is a geospace exploration mission in Japan, and is especially focusing on the relativistic electron acceleration mechanism in the context of the cross-energy coupling via wave-particle interactions as well as the dynamics of space storms. The project consists of the satellite observation team, the ground-based observation team, and integrated-data analysis/simulation team, as well as the science working team and the project science team. The comprehensive instruments for plasma/particles, field and waves and wave-particle interaction analyzer are installed in the ERG satellite. The satellite will be launched in 2015. The Japanese ground-network teams including magnetometer, SuperDARN radar, optical imager, VLF, riometer, and LF-standard radio receiver networks join the ERG project, which are very powerful tool for geospace remote sensing. The integrated data analysis and simulation team is now developing the simulation tools by the ERG-science center. In this presentation, we will report the current status of the ERG project and discuss the cooperative observations between the ERG satellite and the ground-based observation operated by NIPR.