

ジオスペース探査計画：ERGプロジェクト

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Geospace Exploration Project: ERG project

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In order to investigate the acceleration process of relativistic particles in the Van Allen belts and global dynamics of geospace, we are proposing the ERG (Energization and Radiation in Geospace) project. The ERG satellite will be launched during the next solar maximum during which many space storms tend to occur. The planned apogee altitude is about 4 Re to measure the heart of the Van Allen belts, and the mission life will be longer than 1year. The ERG satellite is currently designed to carry a comprehensive set of particle, fields, and wave instruments that cover wide energy and frequency ranges. The project consists of not only the ERG satellite team but also ground network team and integrated data analysis team. Moreover, there are science coordination team and project science center team in the project. As one of activities of the ERG project, the project science team has been designing the CDF format of related ground-based observation data and developing the data-analysis tool. In this presentation, we will talk about the overview of the ERG project and the current status.