

ジオスペース探査ERGプロジェクトと国際連携

Geospace Exploration Project ERG: Contribution to Heliosphere/Geospace (H/GSO) system observatory

*三好 由純¹、篠原 育²、高島 健²、浅村 和史²、松本 晴久²、東尾 奈々²、三谷 烈史²、横田 勝一郎²、笠原 慧²、風間 洋一³、Wang Shaing-Yu³、平原 聖文¹、笠原 禎也⁴、笠羽 康正⁴、八木谷 聡⁴、松岡 彩子²、小嶋 浩嗣⁶、藤本 正樹²、塩川 和夫¹、関 華奈子⁷、加藤 雄人⁵、小野 高幸⁵

*Yoshizumi Miyoshi¹, Iku Shinohara², Takeshi Takashima², Kazushi Asamura², haruhisa matsumoto², Nana Higashio², Takefumi Mitani², Shoichiro Yokota², Satoshi Kasahara², Yoichi Kazama³, Shaing-Yu Wang³, Masafumi Hirahara¹, Yoshiya Kasahara⁴, Yasumasa Kasaba⁴, Satoshi Yagitani⁴, Ayako Matsuoka², Hirotsugu Kojima⁶, Masaki Fujimoto², Kazuo Shiokawa¹, Kanako Seki⁷, Yuto Katoh⁵, Takayuki Ono⁵

1.名古屋大学宇宙地球環境研究所、2.宇宙航空研究開発機構、3.Academia Sinica、4.金沢大学、5.東北大学、6.京都大学、7.東京大学

1.Institute for Space-Earth Environmental Research, Nagoya University, 2.JAXA, 3.Academia Sinica, Taiwan, 4.Kanazawa University, 5.Tohoku University, 6.Kyoto University, 7.The University of Tokyo

The ERG (Exploration of energization and Radiation in Geospace) is Japanese geospace exploration project. The project focuses on the geospace dynamics and accelerations of radiation belt electrons in the context of the cross-energy coupling via wave-particle interactions. The project consists of the satellite observation team, the ground-based network observation team, and integrated-data analysis/simulation team. The ERG satellite will be launched in FY2016. Comprehensive instruments for plasma/particles, and ELF/waves are installed in the ERG satellite to understand the cross-energy coupling system. In the ERG project, several ground-network teams join; magnetometer networks, radar networks, optical imager networks, etc, which provide a global view of geospace and complementary observation with the ERG satellite observation. Moreover, the modeling/simulations play an important role for the quantitative understanding. Besides research teams in the project, the science center has been operated. The science data from the project have been archived. Moreover, the science center has developed an integrated data analysis software that are a plug-in for SPEDAS in cooperation with the THEMIS mission. These data and softwares are available via the ERG-Science Webpage

(<http://ergsc.stelab.nagoya-u.ac.jp>). In this presentation, we will talk about an overview of the ERG project and discuss the international collaborations with Van Allen Probes, MMS, THEMIS, Cluster, etc and ground network observations under the framework of Heliosphere/Geospace (H/GSO) system observatory.

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