

Geospace Explorations: Toward cycle 25

*Yoshizumi Miyoshi¹

1. Institute for Space-Earth Environmental Research, Nagoya University

In this presentation, we will show current research activities and future perspectives of geospace, mainly focusing on magnetosphere and ionosphere. During solar cycle 24, new satellites NASA/THEMIS, Van Allen Probes, MMS and JAXA/Arase are operated and provide many new findings about geospace. Besides these in-situ observations, ground-based observations such as SuperDARN, EISCAT, global magnetometer etc provide global view of geospace phenomena, convection, global current, plasma wave distributions. Coordinated observations between in-situ satellite measurements and ground-observations are very useful to understand cause and consequence occurred in different regions. For solar cycle 25, new missions for geospace imaging are planned, which provides new view of geospace.

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