

Geospace Explorations: Toward cycle 25

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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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