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直接ジオスペース探査を通じた次期太陽活動極大期における日本の貢献

## Japan's Contribution during the Next Solar Max through the In-situ Geospace Exploration

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Geospace stands for the space environment constituted by the plasma particles and waves, the electric field and current, and the geomagnetic field, entirely surrounding the Earth. This region distributed widely beyond the geosynchronous orbit is quite influential for the space infrastructure like applications (weather/broadcasting/telecommunications) satellites, and also crucial for the space physics because a variety of particle acceleration/transport/loss processes occur and numerous high-energy/radiative particles are produced. Our Japanese research community of the solar-terrestrial physics (STP) is starting up a new mission for the Geospace exploration. This mission is called "ERG (Energization and Radiation in Geospace)," and we aim to establish a new paradigm on the STP research on the basis of newly integrated observations using several exploration satellites, the ground-based instruments, and the modeling/simulation schemes. In this talk, we present the current plan and status of the Japan's Geospace exploration and the contribution during the next maximum solar activity period.

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