

## EISCAT レーダーを軸とする北極域超高層観測の現状と将来展望

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### Now and future of EISCAT radar observations for the Arctic upper atmosphere research

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New EISCAT radar era has started in January 2007 after 10 years of collaboration since Japan joined the community in April 1996 as the 7th Associate. EISCAT is now working hard to run the radar continuously during the IPY period in order to be collaborating with global observing platforms, ground-based optical and radio-wave and onboard space vehicles like REIMEI and Cluster. EISCAT is also jointly working for the design study of new EISCAT\_3D active phased array interferometer system as an EU project which can be a new science infrastructure to attract more people. Here an overview on the present and near future prospect of EISCAT radar study will be given in view of pursuing comprehensive understanding of solar-terrestrial system and inherent coupling of polar atmospheres.