

Observations of ionospheric E-region irregularities by using the lower-thermosphere profiler radar

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The Lower Thermosphere Profiler Radar is a 31.57MHz radar located in the MU radar site. The radar can be operated continuously for studies on the morphology of ionospheric irregularities over Japan. Since the radar consists of six receiving channels, it is also possible to conduct radar interferometry observations for the study of small-scale structures in the ionospheric irregularities. In the symposium, the system description and initial results are presented.