

Measurement of ionospheric electric field associated with the sudden commencement by FM-CW HF radar at low-latitude

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Ionospheric electric fields associated with the sudden commencement were observed by the FM-CW HF radar at the low-latitude Sasaguri station (GM lat.23.2, GM lon.199.6), Space Environment Research Center, Kyushu University. Simultaneously, magnetic field variations were also observed at the low-latitude Kuju station (GM lat.26.0, GM lon.202.9), near Sasaguri.

DP_MI ionospheric electric fields were observed at 0730UT May.9, 2003, 0626UT Nov.4, 2003, and 0803UT Nov.20, 2003. In addition, DP_PRI ionospheric electric fields were also observed on Nov.4, and Nov.20, before DP_MI electric fields.