

Observations of ionospheric variations following the 13 January 2007 earthquake using GPS and SuperDARN Hokkaido radar: 2. radar

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Ionospheric disturbances due to the M=8.2 earthquake which occurred to the east of Kuril Islands (46.1 N, 154.2E, 30km depth) at 0423 UT, on January 13, 2007 were recorded by the Hokkaido HF radar (geographic coordinates: 43.53°, 143.61°). The radar recorded the impulsive perturbation of the Doppler velocity in the ground (sea) scatter echoes. Details of the observation and possible generation mechanisms of the disturbances will be presented.