Study of ionospheric disturbances using the remote HF wave receiver of the SuperDARN Hokkaido East radar

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We have been operating the remote HF wave receiver of the SuperDARN Hokkaido East radar in Nagoya and Rikubetsu (in the vicinity of the HF radar) since 2014 to monitor the ionospheric disturbances. Using the remote receiver data it is possible to monitor the upward / downward motion of the ionosphere at the ionospheric reflection point of the HF radar backlobe beams emitted toward Nagoya areas. Initial result of the observation of ionospheric perturbations using the remote HF wave receiver of the SuperDARN Hokkaido East radar will be presented.

Keywords: SuperDARN, remote HF wave receiver, ionospheric disturbance