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Presumption of structure and movement of SporadicE to use ionosonde backscatter

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Ionosonde observed with the National Institute of Information and Communications Technology (NICT) transmits the pulse of 1-30MHz from the ground, receives the reflection from the ionosphere on the ground, and has obtained the reflection altitude of the appearance of the reflected wave since delay time from the transmission time. Information to be able to read from ionogram is vertical apparent reflection height(h'E_s) and propagation distance of 1hop backscatter and 2hop backscatter. The structure of SporadicE can be presumed by the distance from NICT Kokubunji Station of the irregular structure of the sporadic E to understand from an observed backscattering and Speed and a movement direction of sporadic E provided by HFD observation. In this presentation, we will show Structure of the sporadic E which combined ionosonde with HFD observation.

Keywords: ionosphere, ionosonde, HFD observation