

## Change of Ionosphere Electron Density associated with Earthquakes by the Observation of FM-Radio wave Scattering.

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We start the measurement of electron density in the ionospheric disturbance associated with earthquakes. In order to detect electron density, we use the FM-radio wave scattering method. I have been already installed four observation points in Japan. The network has been useful to determine the location of localized ionospheric disturbance. Also, by the detection of the amplitude of FM-radio scattering wave, we can obtain the electron density change caused by ionospheric disturbance associated with earthquake. In one of events, we obtained the earthquake-related electron density that is three times as much as the ordinary density.