Observations of FM radio broadcast related to earthquakes -short term fluctuations-

Yoshikazu Yaji[1], Daisaku Takeda[2], Kurt Sakai[3], Toshiaki Takano[4], Shin Shimakura[5]

[1] Graduate School of Sci.and Tech.,Chiba Univ, [2] Gracuate School of Sci, and Tech.,Chiba Univ., [3] Graduate School of Sci. and Tech., Chiba Univ, [4] Graduate School of Sci, and Tech., Chiba Univ., [5] Graduate School of Sci. and Tech., Chiba Univ.

We have observed an FM radio broadcast beyond the range of sight to study the relation between anomalous propagation of radio wave and earthquakes at Chiba University, Tateyama and Katsuyama in Chiba prefecture. So far we classified daily data and suggested their relation to earthquakes, i.e. anomalous propagation of radio wave occurred within 2 days before earthquakes. In the Present work, in order to investigate the short-term fluctuation for minutes - dozens of minutes, the time scale of data was expanded. As a result, the rate of fluctuation data increased from 65% to 85% on the several days before earthquakes. In future, we want to pursue the cause of each fluctuations.