

Observation of the lower ionospheric altitudes by using of Tweek atmospherics

hiroyo ohya [1]

[1] Electronics and Mechanical Eng., Chiba Univ

Tweeks are VLF/ELF signals and their sources are mainly lightnings in the region of equator. Tweeks propagate in the Earth-ionosphere waveguide and are received at the observation stations. Tweeks are nonstationary signals which their frequency changes from 10 kHz to 1.6 kHz during 10 ~ 50 ms. The advantage for using tweek atmospherics is the wide observation of the variation of the lower ionospheric height in the direction of longitude. It is also effective in case of the disturbance of the ionospheric height. I show the method and the results of analysis with its accuracy. Phase Analysis Method is the model fitting by using of the pseudo-atmospherics.