

infrasonic signals with very low frequency

The problem of identification of infrasonic signals with frequency (0.002-0.02 Hz) was studied. Such infrasonic signals can be obtained from atmospheric storms. Signals amplitudes comparable with a noise. The data obtained from IMS station IS 43 were analyzed. Two identification methods of infrasonic signals were used. The first based on the Fourier and morphological analysis and the second based on correlation analysis. The obtained direction of arrival for the selected infrasound signals were compared with the direction of propagation of atmospheric fronts. Weather maps of atmospheric fronts were presented as well. The quite good correlations between calculated direction of infrasonic arrivals and that ones for atmospheric fronts was observed.

Primary author: TSYBULSKAYA, Nadezda (A.M. Obukhov Institute of Atmospheric Physics)

Presenter: TSYBULSKAYA, Nadezda (A.M. Obukhov Institute of Atmospheric Physics)

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