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Some Results of Recording Infrasound and Internal Gravity Waves from Atmospheric Fronts

The infrasound data from atmospheric storms obtained at the I43 IMS station were analyzed. The corresponding data of infrasound and internal gravity waves at the group of microbarographs in Moscow region were analyzed. The infrasound at a frequency of about 0.3 Hz from convective storms during August 12, 2016 was observed. The corresponding results of recording internal gravity waves from atmospheric storms are presented. The recordings are carried out by four microbarographs of Obukhov Institute of Atmospheric Physics RAS in Moscow. The distance between four microbarographs is from 7 to 54 kilometers. It was detected fluctuations of atmospheric pressure during the approach of atmospheric storm to the registration network and then its passing. The regularity of changes in the parameters of internal gravity waves (coherence, azimuth arrival, amplitude and horizontal velocity of propagation waves) is obtained. The high coherence of internal gravity waves between points registration separated by 60 kilometers in the periods of more than 30 minutes is obtained.

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