

## **A Case Study of Acoustic Effects from the Chelyabinsk Meteoroid: The System Spectral Analysis**

Infrasound effects from the Chelyabinsk meteoroid observed at the Ukrainian (2500km) and Russian(1417 km) research stations are described. The signal time delay and celerity have been determined by applying the basic for analyzing acoustic effects techniques, the system spectral analysis and the band-pass filtering. The basic periods and durations of the acoustic signals have been determined. The difference in the celerity of the infrasound and the speed of acoustic waves has been explained.

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