

on a Method for Improving the Accuracy of the Traveltimes Difference Surveying of Infrasound Detection Array

The traveltimes difference surveying of infrasound detection array is one of key factors that affects the accuracy of infrasound source localization. In this paper, the main methods of calculation the traveltimes difference of infrasound detection array are introduced, and then analyze on common method for improving the accuracy of the traveltimes difference calculation. Based on the infrasound wave signal influence factors in the case of long distance transmission, the correlation function fitting curve and resampling technique are proposed to improve the accuracy of traveltimes difference surveying.

Keywords: infrasound, array, the traveltimes difference

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