

1.1-P06. Detection of infrasound from Mt. Etna REB events at the experimental array in Meron, Israel

A great deal of infrasound observations of Mt. Etna appear in the literature, and major eruptions have long appeared in the Reviewed Events Bulletins (REB) of the CTBTO. However, thus far, most of these observations have been made from the immediate vicinity of the volcano and from its west, by the IMS infrasound station in Tunisia. There are limited infrasound observations in winter, when stratospheric wind conditions favor eastward propagation of infrasound. We present here the first extensive observations made from the east, during the winter months, when wind conditions allow for infrasound to be detected more than 2000 kilometers away from Mt. Etna at our experimental array in Meron, Israel. Using a basic propagation model, we were able to confirm our detection of the vast majority of REB events that occurred during the periods for which we have data.

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