

Prototyping the temporal infrasound observation kits and observation by using of them on a trial basis

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The infrasound observation system is installed in Isumi, Chiba-prefecture as a component of the International Monitoring System for CTBT's verification scheme. It is an array observation site and is comprised of six elements. It had been deployed on November 2004.

Many interesting infrasound signals are observed frequently at the site, however, almost all sources of these signals can not be explained yet. One of the reason for not making them clear is our poor experience on the infrasound signals. And other reason, it might be slightly significant, is that the location of its source can not be determined by only Isumi's array data (the back-azimuth and the apparent velocity of observed signals could be estimated, however, the distance between its source and Isumi could not be estimated).

Therefore, we tried to make simple infrasound observation kits by using of a differential pressure sensor and made temporal observation of a tripartite array.

In this presentation, our simple infrasound observation kit is introduced and the observed data during trial observation period would be discussed.