

Establishment of Nationwide Infrasond Observation Consortium and Future Plan for Disaster Mitigation Application

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Infrasond (low-frequency sound wave, Micro-pressure wave) is the wave generated by various geophysical phenomena and propagates long distance in Earth's atmosphere, and it is expected to be applied to disaster prevention/mitigation. A researcher group who have been continuously discussed with in this JpGU session is now establishing "Nationwide Infrasond Observation Consortium" (provisional) aiming at disaster-mitigation engineering application based on scientific production.

In this paper, we will introduce previously-accumulated validating insight for various geophysical events and artificial sound sources, as well as application examples in some model regions aiming at constructing nationwide remote-sensing facility for disaster prevention/mitigation with applying already existing 100 or more infrasond sensing facilities in Japan, then we expected it could be an opportunity to discuss about the near future vision to become.

We, on behalf of the consortium members, will wait and would like to be reviewed with giving opinions directly by, all of the researchers and developers who are interested in this theme, any fruitful ideas for our future plan as well as comments for collaborating activities are welcome.

Keywords: Infrasond, Nationwide consortium, Disaster prevention/mitigation application