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Infrasound Technology in Indonesia

The Infrasound experiments have started in Indonesia in 2004, with the support of DASE (French CEA) BMKG installed an infrasound experimental station in the airport of Palangkaraya in Kalimantan. However, this preliminary study which was performed with only one single infrasound station was very encouraging and has demonstrated the potential of using infrasound data and processing for remote monitoring of volcanoes in the Indonesian region. Then a station has been setup In Pelabuhan Ratu (Java) to assess station in a non-favorable environment (proximity of the ocean, cultural noise, etc…). The station is surrounded by the ocean (2km away from the seashore) and topography is strongly influenced by mountains. Therefore the experimental station has started to produce a very large number of automatic detections. The small aperture of the Pelabuhan Ratu array has also an impact on the accuracy of the detection characteristics; however this experiment has shown that we could have results even with a non-optimum environment. These experiences, fruit of the collaboration between BMKG and CEA have been really satisfying, therefore it is planned in the near future to continue the experiment on other locations like near Tondano Lake (North Sulawesi).

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