

## **IMS Infrasound Network: the potential studies for South East Asia region**

Traditionally, infrasound research has been driven largely by defense needs, namely to monitor nuclear and chemical explosions. However, there are growing numbers of potential scientific and civil applications for infrasonic observing systems. This field of very low frequency acoustics is globally well developed, which the world nowadays has an extensive worldwide network of infrasound sensors to monitor underground and atmosphere nuclear explosions under the Comprehensive Test Ban Treaty (CTBT). Natural infrasound sources such as avalanches, earthquakes, geomagnetic activity, meteors, ocean waves, severe weather, turbulence, and volcanoes offer great resources for comprehensive and interactive research programs. The evolving CTBT International Monitoring System offers exceptional opportunities to make this infrasonic data sets widely available and to explore their uses particularly in synergistic studies with seismic and hydroacoustic systems where diverse data sets can be readily melded. This study will review the broad range of research and studies possible using infrasonic observing systems, as well as its combination with other remote sensing systems in the context of South East Asia, and particularly Malaysia.

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