

## **Implementation Project Infrasound Portable Array in Costa Rica by PTS-CTBTO and OVSICORI-UNA and Analysis of Volcanic Source of Infrasound by NDC Costa Rica (Mt. Sinabung Volcano).**

Collaboration between OVSICORI-UNA and the Provisional Technical Secretariat of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO). The deployment and installation of a CTBTO infrasound mobile system in Costa Rica, would be beneficial for advancing the understanding of infrasonic sources in Central, Latin American and Caribbean regions. The proposed collaboration will also be an important contribution from OVSICORI-UNA to the volcanic monitoring in Costa Rica as it will expand the spatial coverage beyond that of the permanent International Monitoring System infrasound component in Latin America and the Caribbean. The Infrasound Portable Array will be installed in the North of country to have a quality signal monitoring from active volcanoes: Turrialba Volcano, Poas Volcano and Rincon de la Vieja Volcano. NDC of Costa Rica conducted a volcanic analysis of the infrasound source, the volcanic eruption event of Mt. Sinabung on February 19, 2018 at 01:53 UTC (08:53 local time). We correlate data from IMS infrasound stations: I52GB (BIOT/Chagos Archipelago, United Kingdom of Great Britain and Northern Ireland), I06AU (Cocos Islands, Australia), I19DJ (Djibouti).

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