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Infrasound at Costa Rica

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The NDC-CR has promoted the use of the infrasound methodology in Costa Rica and in the LAC region with the installation of permanent (IVTCR) and temporary (I069CR) stations in the country, as well as with the organization of regional workshop in the field (Infrasound workshop 2019 jointly by CTBTO and NDC-CR).

The I069CR and IVTCR identified different infrasound sources. Among the most relevant is the fall of the Agua Zarcas meteorite in Central Costa Rica, on April 23, 2019, 21:07 local time, meteorite from which more than 30 kg were recovered by locals and which has had a great impact on the national and international scientific community.

OVSICORI-UNA permanent stations have recorded specific events; for example, the landslide of $\sim 25 \times 10^6$ m³ on August 26, 2020, 04:00 am local time on the Irazú volcano; recorded by JTS (AS025), which is located ~ 125 km from the source.

Although infrasound instrument had been operating since 2007 at the JTS site and the OVSICORI-UNA seismic network had installed instruments near volcanic sources, it is until recently that the community had shown interest in this methodology and the CTBTO jointly with the NDC-LAC could play an important role to build capacity in the field.

Promotional text

Temporary and permanent infrasound stations had been installed by OVSICORI-UNA (NDC-CR) to characterized acoustic source in the zone, with great impact to help in the determination of volcano explosions. Data also used to study meteorite fall in April 23, 2019.

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