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results from Tsunami Warning Agreement Between CTBTO and NDC Madagascar

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This is the first study after the signature of the tsunami warning agreement between the CTBTO and Madagascar in 2019. On 2nd of August 2019 12:03:23 UTC, an earthquake of magnitude 7 occurred south-west of Sumatra Indonesia and generated a local tsunami warning. The goal of this project is to monitor tsunami events using International Monitoring System seismic stations, then to simulate an inundation effect on the east coast of Madagascar with Community Model Interface for Tsunami (ComMIT) software developed by NOAA Center for Tsunami Research (NCTR). This event was observed from seismic and hydroacoustic stations as defined in "Hydroacoustic data analysis before and after the pandemic plus its contribution to Tsunami warning system in the Indian Ocean". As a result, wave arrival time was 12:09 UTC at CMAR seismic station with 21 minutes of signal duration. Then, inundation effect was shown in some area with an average of 1m ocean wave amplitude.

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Promotional text

Result of Tsunami warning agreement

Oral preference format

in-person

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