

of IMS Infrasound Stations for Earthquake Detection: Case Study of the February 6, 2023, Türkiye Earthquake.

Tuesday, 5 November 2024 16:10 (10 minutes)

On February 6, 2023, a devastating earthquake occurred in a transcontinental area located between Europe and Asia, east of Nurdagi, in the Turkish province of Gaziantep, at an estimated depth of 24.1 kilometers. This earthquake caused damage to approximately 170,000 buildings. It is one of the largest earthquakes recorded in the region in over 100 years, with a magnitude of 7.8 Mw, resulting in a regrettable death toll of more than 59,000 fatalities and 107,213 injuries. This event marks a significant turning point in global seismological research and the field of earthquake-resistant engineering, following the reported ground accelerations during the event.

In terms of energy, this earthquake released an amount 500 times greater than the energy released by the Hiroshima bomb. This paper presents the results of the analysis of the available data from the IMS infrasound stations for the detection of this event, using DTK-PMCC.

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Session Classification: Poster

Track Classification: Poster session