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The T-Phase Observed from the Underground Nuclear Explosions of North Korea

North Korea conducted the third underground nuclear explosion on February 12, 2013 in the northeastern part of Korean Peninsula, where North Korea executed their first and second underground nuclear explosions. Analysis on the data recorded at seismic stations of Korea Institute of Geoscience and Mineral Resources revealed that a seismic array located in an island of East Sea recorded the T-phase generated from the second and the third underground nuclear explosions. The T-phase was converted from the P and S waves originated from the nuclear explosions. A detailed study was performed with spectrogram analysis, duration-amplitude discriminant and dispersion of the waveform.

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