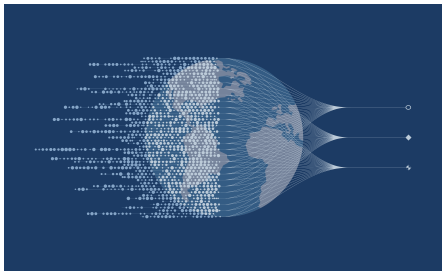

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# of Nuclear test event from Earthquake based on teleseismic data of PS26 station

The PS26 station was established in Niger in 2005 on a granite batholith. The PS26 data is of unrivaled quality and contributes to strengthening the verification system within the IMS. The station remains in no capable mission, but there is hope to see this station getting back within the network. In this work, we will use data from the PS26 station in order to show its contribution by integrating also those from other stations to carry out a comparative study of the difference in the detection of a nuclear test compared to a natural phenomenon. On the basis of the ratio of P/S waves for each event, we will demonstrate, depending on the nature of the event, this approach which will be able to initially make a delineation between an event resulting from an explosion or that resulting from an earthquake.
Data related to a nuclear test from North Korea's nuclear test on September 3, 2017, where selected and from the wave morphology analysis, will show a difference from earthquake, which helps to confirm the high probability of nuclear test based on seismic data recorded.

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