

Data Processing and Beamforming

Friday, 23 June 2023 09:00 (1 minute)

The PS26 is the first internationally recognized seismic station in Niger. The field study for the site installation was conducted in November and December 2001.

The PS26 station is located southwest of Niamey, near the town of Torodi. This region is part of the West African craton, composed of sedimentary belts of Birimian green rocks and granitic terraces of the late Archean or Neoproterozoic (2.0-2.1 Ga). The 16 sites are distributed over three concentric rings at distances of 0.75 km, 1.5 km and 3 km.

Seismometers are placed at about 50 meters depth. A GPS antenna is mounted on the roof outside each bunker of the installations. Among the 16 sites four sites including TOAO, TOC2, TOC4, TOC6 are in three components.

We will extract data from these three components at each of these four sites so that we can prove that the three components allow us to locate relatively events. This approach consists in demonstrating and assisting those who do not have the possibility of having data available at the levels of several stations with restricted data to characterize events.

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Promotional text

the presentation will highlight the data quality from PS26 array

Oral preference format

in-person

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Session Classification: Lightning talks: P5.3, P5.4

Track Classification: Theme 5. CTBT in a Global Context: T5.3 Regional Empowerment