

Monitoring System Portable Infrasond Array in Côte d'Ivoire: Opportunity to Study Local and Regional Infrasond Sources

Wednesday, 21 June 2023 09:36 (1 minute)

The National Data Centre of Côte d'Ivoire and the PTS installed a portable infrasond network (I68CI) from mid-January to December 2018 in the Comoé National Park located in north-east Côte d'Ivoire. This mobile station includes four sensors and use MB3d microbarometers with 50 Hz sampling frequency. The main objective of this one-year deployment is to better understand and characterize regional infrasond sources. Some regional and local infrasond sources are detected by both a mobile array (I68CI) and a fixed array (I17CI). Among these sources, we note Mbembele (Mali) and Tongon (Côte d'Ivoire) mine activities. Hydroelectric power dam (Buyo, Soubre and Taabo) activities are also detected in Côte d'Ivoire. The split characteristics of the tropical Mesoscale Convective System of 9 April 2018 in northern Ghana is also investigated using the mobile array (I68CI) measured data.

E-mail

benjamin.kouassi@gmail.com

Promotional text

Some regional and local infrasond sources are detected with combination of both the mobile array (I68CI) et fixed array (I17CI). Among these sources, we note Mbembele (Mali) and Tongon (Cote d'Ivoire) mines activities. Hydroelectric power dams (Buyo, Soubre and Taabo) activities

Oral preference format

in-person

Primary author: KOUASSI, Komenan Benjamin (Station Geophysique de Lamto)

Co-authors: Mr YOROBA, Fidele (Station Geophysique de Lamto); Mr DIAWARA, Adama (Station Geophysique de Lamto)

Presenter: KOUASSI, Komenan Benjamin (Station Geophysique de Lamto)

Session Classification: Lightning talks: P2.1, P2.3, P4.4

Track Classification: Theme 2. Events and Nuclear Test Sites: T2.3 Seismoacoustic Sources in Theory and Practice