

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

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The National Data Centre of Côte d'Ivoire and the PTS installed a portable infrasound 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 infrasound sources. Some regional and local infrasound 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.

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Promotional text

Some regional and local infrasound 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

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