



ID: P1.1-794

Type: E-poster

between rainfall variability and signals characteristics of infrasound events during the dry season in the central highland region of Madagascar

Infrasound is one of four technologies dedicated to monitor nuclear explosions. It is used as well to study other issues for the benefit of science or to improve human life. Nowadays, rainfall variability is a widely discussed topic due to climate change. This work probes the relationship between rainfall variability and the characteristics of infrasound signals recorded during the dry season in the central highland region of Madagascar. The analysis of rainfall patterns uses precipitation data and infrasound bulletins from 2003 to 2024. To obtain characteristics (azimuth, frequency contents, amplitude) of infrasound events. Infrasound data are processed by DTKPMCC. The results provide new perceptions into how infrasound behavior during the dry season correlates with rainfall variability. Among all infrasound events analysed, which serves as the most reliable indicator of rainfall variability?

E-mail

ahramanantsoa@gmail.com

In-person or online preference

Primary author: Dr RAMANANTSOA, Andry Harifidy (Institute and Observatory of Geophysics of Antananarivo (IOGA))

Co-authors: Mr ANDRIANAIVOARISOA, Jean Bernardo (Institute and Observatory of Geophysics of Antananarivo (IOGA)); Mr RANDRIANARINOSY, Fanomezana (Institute and Observatory of Geophysics of Antananarivo (IOGA))

Presenter: Dr RAMANANTSOA, Andry Harifidy (Institute and Observatory of Geophysics of Antananarivo (IOGA))

Session Classification: P1.1 The Atmosphere and its Dynamics

Track Classification: Theme 1. The Earth as a Complex System: T1.1 The Atmosphere and its Dynamics