

## **of improvement of characterization and localization of phenomena detected by IS17 station using a infrasound portable array**

A better localization of infrasound events in West Africa and on the African equatorial band requires fairly close infrasound station data. This improvement of localizations is possible due to the zonal organization of altitude wind jet over this region. In Africa, Côte d'Ivoire has an infrasound station (I17CI) certified by the CTBTO since 2002. The few existing infrasound stations in this continent (Tunisia, South Africa, Djibouti, Central African Republic) are quite far thereof. In West Africa, we note the lack of other infrasound station that could allow improvement of events localization with I17CI. Thus, an infrasound portable array facility with CTBTO in Côte d'Ivoire will improve the detection of events and their locations. Note that Côte d'Ivoire has expertise in infrasound equipment. This project will also establish a collaboration with neighboring countries such as Burkina Faso, Mali, Ghana, etc.

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