

## **Sub-Regional Capacity in Infrasound Monitoring with the Possible Deployment of IMS Portable Infrasound Array in Cote d'Ivoire**

Infrasound monitoring is one of the four Comprehensive Nuclear-Test-Ban Treaty (CTBT) monitoring technologies globally deployed by the Provisional Technical Secretariat (PTS) to continuously monitor the planet for signs of nuclear explosions in the atmosphere or shallow underground. There is continuous interest by the PTS to enhance its capability in acoustic source detection, localization and characterization. Hence, the commencement of the deployment of IMS portable infrasound array on a temporary basis in some regions of interest. These portable infrasound array deployment are expected to assist in monitoring/detecting, understanding and categorizing infrasound signals of unknown origins. With the possible deployment of this portable infrasound array in Cote d'Ivoire under discussion for further consideration, it can additionally be tailored to build Sub-regional capacity in infrasound monitoring coupled with the planned project objectives. Thus upon approval, the deployment process may be used to offer technical training in installation and operation of the system to selected participants from NDCs within the West African sub-region. Since neighboring countries like Ghana, Liberia, Burkina Faso, Nigeria among others do not have such CTBTO monitoring facility within their territories. Thus an opportunity to receive practical technical skills in infrasound monitoring for better source characterization.

**Primary author:** AMARTEY, Edmund Okoe (Ghana Atomic Energy Commission)

**Presenter:** AMARTEY, Edmund Okoe (Ghana Atomic Energy Commission)

**Track Classification:** Analysis of Sources and Scientific Applications