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TECHNOLOGIES IN THE VERIFICATION REGIME

The International Monitoring System (IMS) uses four major technologies in its verification regime. The four technologies, namely seismic, hydroacoustic, infrasound and radionuclide are best suited to monitor the globe for any activities underground, underwater and in the atmosphere. The first three are the known waveform technologies that help to detect and locate events. Kenya, in collaboration with the Provisional Technical Secretariat, established two primary IMS stations (I32KE and PS24) and a well-equipped National Data Centre for data analysis. Our objective is to introduce data from other certified infrasound and seismic IMS stations over the last decade for scientific studies and civil applications using the PMCC, geo-tool etc. This presentation demonstrates how infrasound data is analysed and used to assess the impact of mining explosions and their effects on the environment. Additionally, we also focus on the seismoacoustic and regional events. Kenya is located within the seismically active rift system running all the way from Afar in the North to Mozambique, which is the main source of seismic activity in Africa. This study also aims to capture these events and their source implications and effects on the widening of the rift.

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