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loss of coherence and network covering methods to improve I17CI detections by adding dummy sensors

In the International Monitoring System of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO), Côte d'Ivoire benefits from two primary stations: seismic (PS15) and infrasound (I17CI) respectively for monitoring underground and airborne nuclear tests. Upgrading the infrasound station I17CI from four to more sensors is part of the CTBTO's medium term objectives. Thus, this research project is part of the preliminary studies prior to the implementation of this major CTBTO project. We combined coherence and network covering methods to take part of the similarity of signals across all sensors and also network sensitivity to event detection by adding dummy sensors.

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