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Observation and events identification from I33S station

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I33S infrasonic station located at Imerintsiatosika-Madagascar has been collecting data from 2001. This station belongs to the 60 infrasonic stations operated by the CTBT/IMS in the world. PMCC method is used to process the data. Data processing leads to 2 classes of signals as High Frequency (up to 0.5Hz) and Low Frequency (less than 0.5Hz) and recognise natural and man-made events. Generally, natural events produce low frequency infrasound such as ocean tides, cyclone and volcano eruption occurred far away the station. Thunderstorms produce high frequency signal and have been recorded by the station. Man-made events produce high frequency infrasound such as quarry blast, aircraft with helices and explosion.