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permanent and seasonal infrasound sources detected by I17CI station over West Africa form 2009 to 2016

The characterization of infrasound sources detected by I17CI station was carried out using CEA infrasound bulletins from October 2009 to June 2016. The signals were processed in the frequency range [1 - 2] Hz. Two types of regional infrasound wave emitting sources were found. The emitting sources are seasonal and permanent sources. Seasonal sources are mainly convective systems over West Africa. Infrasound waves are generated by the deep convection of thunderstorms, lightning. The seasonality of these infrasound waves is related to the latitudinal shift of the Inter-Tropical Convergence Zone (ITCZ) over West Africa. Permanent stationary sources are mainly industries, hydroelectric dam mines and airports located in southeast Côte d'Ivoire and west Ghana.

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