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An Assessment of Infrasound Events in the REBs Produced in the Year 2016

Assessment of Infrasound technology event contribution towards the REB production for the year 2016 at the IDC is performed. During that year 37,090 REB events were produced using the three technologies (Infrasound, Seismic, and Hydroacoustic). To accomplish the assessment task geographical, seasonal and daily occurrence distributions are considered. Seismic only events contribution to the number of events in REB is over 90% and follows the active seismic zones. The geographical distributions show that most of the Infrasound only events are located around man-made activities. The mixed technology events (Infrasound and Seismic) are few in number and are located in few geographical locations. Seasonal occurrence distribution of Infrasound events shows that relatively less number of events occurs during the summer time. This could be due to the seasonal variation of winds. The weekly and daily distribution of these events shows that they are mainly observed during the weekdays and between 06:00-20:00 hours (UTC). These investigations indicate that most of the Infrasound events in the REB are related to man-made activities and their location and time of occurrence are fairly known. In this respect the results obtained here can be used to categorize these events and thus help allocate resources accordingly.

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