



Progresses with the IDC Infrasound system

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The International Data Centre (IDC) advances its methods and continuously improves its automatic system for infrasound technology. The IDC focuses on enhancing the automatic system for the identification of valid signals and the optimization of the network detection threshold by identifying ways to refine signal characterization methodology and association criteria. An objective of this study is to reduce the number of associated infrasound arrivals that are rejected from the automatic bulletins when generating the reviewed event bulletins (REB). Progresses related to several ongoing projects at the IDC will be reviewed: - improving the detection accuracy at the station processing stage by introducing the infrasound signal detection and interactive review software DTK-(G)PMCC (Progressive Multi-Channel Correlation) and by evaluating the performances of detection software; - development of the new generation of automatic waveform network processing software NET-VISA to pursue a lower ratio of false alarms over GA (Global Association) and a path for revisiting the historical Infrasound Reference Event Database (IRED). The IDC identified a number of areas for future improvement of its infrasound system that will be addressed here.