

Years of Infrasound Arrivals in the International Data Center Bulletins: A Review

Infrasound re-entered automatic processing at the International Data Center, Vienna, on 11th February, 2010. This presentation provides a review of the infrasound arrivals that have been incorporated into the automatically generated Standard Event Lists (SEL's) and the analyst-reviewed Reviewed Event Bulletin (REB) over the past five years. The analysis focuses upon events in western Eurasia; significant numbers of events are recorded in this region, in part due to a higher density of International Monitoring System (IMS) infrasound arrays. In particular we focus upon the geographical clustering of events that contain only infrasound arrivals (and not seismic arrivals). One example is an analysis of an event cluster within the REB over the North Sea, a known area of sonic boom generation. Data recorded across the LOFAR microbarograph network in the Netherlands provides a method of comparison between arrivals recorded across the sparse IMS network with data recorded at near-regional ranges (<600km). We also examine the relationship between the arrivals that are automatically associated in the SEL3 and those arrivals that pass analyst-review and enter the REB.

Primary author: GREEN, David (AWE Blacknest)

Presenter: GREEN, David (AWE Blacknest)

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