



Smooth re-introduction of infrasound data analysis into operations at the International Data Centre: Procedures, analysis and results

M. Fisseha, A. Kasmi, A.S. Ndiath, M.F. Ocal, K. Sitnikov, N. Brachet, J. Coyne
CTBTO PTS/IDC, Vienna International Centre, P.O. Box 1200, 1400 Vienna, Austria

The International Data Centre (IDC) of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) Preparatory Commission, in Vienna receives processes, distributes and archives data and products from a global network of seismic, hydroacoustic, infrasound and radionuclide stations.

Automatic event lists generated using detections from waveform data are reviewed by analysts to produce timely, high quality Reviewed Event Bulletins (REB). Currently, the REB is produced primarily using seismic and hydroacoustic data, as infrasound data are not fully operational yet.

In the first quarter of 2007, the IDC implemented new interactive review tools (ARS-Geotool-PMCC, Infrasound Intranet) which facilitate the analyst review of infrasound data. The IDC Infrasound specialist group also developed new procedures for smoothly re-introducing infrasound data into the REB.

The members of the infrasound specialist group look for contributing phases from infrasound stations for selected events. As a consequence, a growing number of events built with infrasound data have begun to appear in the REB. However, this contribution remains incomplete due to limited analyst resources.

This presentation will give an overview of the guidelines and best practices that are currently being used by the infrasound group for saving events in the REB. It will also provide examples of infrasound signals from a variety of sources which contribute to REB events.