



ID: O2.3-070

Type: **Oral**

observation of surface explosions in Israel region.

Thursday, 1 July 2021 11:35 (15 minutes)

The International Data Center (IDC) analyze routinely seismoacoustic data for producing a list of seismoacoustic events as part of the Comprehensive Nuclear-Test Ban Treaty (CTBT) verification regime.

However, the fusion between seismic and infrasound data is not yet satisfactory.

A set of seismoacoustic events with known location, origin time and if possible their energy, is necessary in order to improve our understanding, and to calibrate our algorithms and stations.

Sayarim shooting range is located at the south of Israel, it hosted several sets of dedicated calibration explosions during summer 2009 and winter 2011.

In addition several times per year, large explosions of the order of 20-40 ton, are detonated at the range.

Some of the explosions were detected by the IMS infrasound stations.

In this work, we present the results of seismic and infrasound analysis of these explosions based on data from IMS stations and local stations.

Promotional text

In this work, we present the results of seismic and infrasound analysis of explosions, in Israel, based on data from IMS stations and local stations.

Primary author: Mr BEN-HORIN, Yochai (Soreq Nuclear Research Center, Yavne, Israel)

Presenter: Mr BEN-HORIN, Yochai (Soreq Nuclear Research Center, Yavne, Israel)

Session Classification: T2.3 - Seismoacoustic Sources in Theory and Practice

Track Classification: Theme 2. Events and Nuclear Test Sites: T2.3 - Seismoacoustic Sources in Theory and Practice