



The Geophysical Institute of Israel conducted an explosion of 102 ton of explosives in order to calibrate acoustic and seismic sensors of Israel and countries in the Mediterranean region, Europe and Asia

The Seismological Division of GII, operating in the frame work of the Ministry of National Infrastructure, conducted on January 26th, 2011 an Explosion of 102 ton of explosives (ANFO type), in the site of Sayarim, South Negev. The experiment has been done for acoustic and seismic scientific causes:

- To improve the understanding of acoustics waveform in the atmosphere
- To calibrate the seismic network of Israel and monitoring stations of countries in the Mediterranean region, Europe and Asia.
- Determination and resolution improvement of seismic events.
- Upgrading the Earthquake Catalog in the region

The experimental explosion is part of a scientific research project; an



Israeli - European joint venture initiated and financed by the CTBTO organization (situated in Vienna, Austria), which is responsible for the establishment of the Comprehensive Nuclear-Test-Ban Treaty (CTBT).

The results of the experimental explosion done by GII, will be public domain and the report will be open to all the scientific community - to add value to the investigation of acoustic waves in the atmosphere and earthquake research. The processing and interpretation of the data will be done by GII's scientists and will last few months.

It is worthwhile to mention, that GII conducted similar experiments in the past; on June 2004 an explosion of 32 tons in the area of Sayarim, on June 2005 an explosion of 20 tons in the quarry of Beit Alfa and on August 2009 a similar surface explosion where acoustic wave were monitored as far as 3,500 Km., near Paris, France.

