



## **The developement of the Romanian infrasound network array**

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The infrasound technology in Romania was developed in the framework of three national projects in the field of Monitoring of anomalous phenomena associated with earthquakes, explosions and storms with the very start in 2005. In the last years we have developed in the epicentral zone two triangle-shaped infrasound arrays, the first one having 400 m aperture and the second one 2.5 km aperture. The sites are also equipped with seismic, electric and triaxial fluxgate magnetic sensors. First configuration, surrounding a central point (Plostina-Vrancea) have been completed with other three sites with a larger aperture, needed for a better event azimuth identification. In one site there are installed two types of sensors for reliability studies.

At present the infrasound array from Plostina consists in 6 elements: three elements built in Basic Design Requirements for Pipe Arrays with Chaparral sensors (Model25, 0.1Hz to 200 Hz) and Quantera 330 digitizer with porous pipe garden house installed on external ring and the other three with MBAZEL2007 ( $\pm 50$ Pa) microbarometer with porous pipe and Hi6 digitizer.