



Electromagnetic and Infrasound Monitoring Network in Romania – First data, first results

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The paper presents a complex geophysical monitoring and recording system, deployed in Romania, partially at Plostina site (PLOR 1-4) and partially at Surlari site (SULR). Plostina is located at 45.8512 N latitude and 26.6499 E longitude in the Vrancea (Romania) epicentral zone and is one of the most modern monitoring sites under the administration of the National Institute for Earth Physics (NIEP), Romania. Surlari is located at 44.6798 N latitude and 26.2543 E longitude, outside of the Vrancea epicentral zone, being under the administration of the Bucharest University (BU) and NIEP.

Starting with July 2006, NIEP, AZEL - Designing Group S.R.L. and BU made a research consortium who's project -"Complex Multidisciplinary Research System On Precursory Phenomena Associated With Strong Intermediate Vrancea Earthquakes, In Conformity With The Latest International Approaches - MEMFIS"- was financed by the Romanian Ministry of Research and Education, through the Programme "Excellency Research" and had as a final purpose a new and modern geophysical monitoring network, that uses specific instrumentation providing information on acoustic (both earth's seismic and atmosphere's infrasonic activities), electric, magnetic and electromagnetic fields.

The main goal is to verify if there could be established some correlations between the behaviour of the monitored fields and the preparatory stage of strong intermediate earthquakes in Vrancea zone. The first recorded data will be presented together with their correlation with earthquakes and storms occurrence.