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years of operation in Romania of the I67RO PTS portable infrasound array

PTS portable infrasound array (I67RO) has been deployed in September 2016, in western Romania, for one-year experiment, within a collaboration project between National Institute for Earth Physics (NIEP) and PTS/CTBTO. Operated and maintained in the framework of Romanian infrasound monitoring network, I67RO array has been proven effective in supporting NIEP efforts for monitoring of natural and anthropogenic acoustic sources. Therefore, NIEP expressed the strong interest to continue this collaboration, and PTS agreed to extend the period of the array deployment in Romania for a second year – until October 2018. I67RO four-element array covers a 0.9 km aperture area, being equipped with CEA/DAM MB2005 microbarometers and Reftek RT 130 data loggers. Data are processing and analyzed on routinely basis at NIEP by using a duo of infrasound detection-oriented software (DTK-GPMCC and DTK-DIVA) packaged in the CTBTO NDC-in-a-Box. We present the results of these activities, i.e. station monitoring performance (array detection capability, types of sources detected). A chronology of I67RO operation and maintenance since array deployment is showed as well. This joint experiment contributed both to advance the understanding of infragenic sources in Central-Europe and to support ARISE project in order to expand the spatial coverage of the European infrasound network.

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