

First Infrasound Array in Hungary

The Geodetic and Geophysical Institute of the Hungarian Academy of Sciences joined to the Atmospheric dynamics Research InfraStructure in Europe (ARISE2) project in 2016. This year we have deployed an infrasound array in Piszkesteto, Hungary. The array is the first infrasound station in Hungary and it consists of 4 elements, equipped with SeismoWave MB3d microbarometers and wind noise filtering system. The aperture of the array is approximately 200 m which is optimal for the detection of local events. The central element of the array is co-located with the broadband seismological station, PSZ. In the surroundings of the array there are several mines from where we regularly detect seismic signal of explosions, and we expect also infrasonic detections. The infrasound array began its operation this spring, and shall make the infrasound recordings available to the ARISE community. We present data from the first months of operations, noise spectra and preliminary results of event discrimination using both seismic and infrasound data.

Primary author: CZANIK, Csenge (Research Center for Astronomy and Earth Sciences, Geodetic and Geophysical Institute,)

Presenter: CZANIK, Csenge (Research Center for Astronomy and Earth Sciences, Geodetic and Geophysical Institute,)

Track Classification: 1. The Earth as a complex system