

Improving the infrasound monitoring capability in Europe incorporating CEEIN

Established in 2018, the Central and Eastern European Infrasound Network (CEEIN) consists of six national microbarograph stations in Hungary, Romania, Austria, and Czechia. This joint experiment aims to contribute both to advanced understanding of infrasound sources in Central-Europe and to the ARISE design study project, as an enhancement of the European infrasound network. Several events of interest including accidental explosions, bolides, North Sea sonic booms, volcanic eruptions and severe weather phenomena have been studied. Data processing and analysis have been performed by using the latest version of DTK software (GPMCC and DIVA). Network performance modeling were undertaken and proved that the European detection capability is significantly improved by incorporating data from the CEEIN.

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,)

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