

of the European infrasound network performance incorporating CEEIN

The Central and Eastern European Infrasound Network was established in 2017 and it joins 9 recently installed infrasound arrays located in Hungary, Romania, Czechia, Austria and Ukraine. The collaboration 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. The arrays significantly improve the infrasound station coverage of the Central European region. 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.

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