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The Annual Hungarian Seismo-Acoustic Bulletin of Ground Truth Events

The first infrasound array in Hungary (PSZI) started operation in May 2017. On its recordings several different natural and man-made sources have been identifed, including quarry blasts, bolides, thunderstorms, volcano eruptions and microbaroms. Between June 2017 and December 2018 the Hungarian National Seismological Network recorded seismic signals from more than 1000 surface explosions in approximately 70 quarries in Hungary, Slovakia, Romania, Croatia and Austria. 25% of them was also detected by the PSZI infrasound array. The back-azimuth and velocity gained from the infrasound detections are used as a completion to the seismic arrivals for the relocation of these events by the iLoc location algorithm. These explosions form the base of the first Hungarian Seismo-Acoustic Bulletin which is planned to be published in February 2019. The HSAB will include all the identified seismo-acoustic and acoustic-only events detected by the PSZI array since its installation. The Central and Eastern European Infrasound Network (CEEIN) was established in 2018 and includes 6 infrasound stations in Hungary, Romania, Czechia and Austria. In case of the events recorded by more CEEIN stations all the CEEIN detections are included in the Bulletin. From 2019 the Hungarian Seismo-Acoustic Bulletin will be published yearly.

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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