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The Hungarian Seismo-Acoustic Bulletin

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The first infrasound array in Hungary (PSZI) has been installed in May 2017. The detections of the array mainly consist of quarry blasts, microbaroms, thunderstorms and bolides. 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. About 25% of them generated also an infrasound signal 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 7 infrasound stations of 4 member countries: Hungary, Romania, Czech Republic 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.