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The Central and Eastern European Infrasond Network Bulletin

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To fill the gap in infrasond network coverage, the Central and Eastern European Infrasond Network (CEEIN) has been established in 2018 with the collaboration of the Zentralanstalt für Meteorologie und Geodynamik (ZAMG), Vienna, Austria; the Institute of Atmospheric Physics of the Czech Academy of Sciences (CAS IAP), Prague, Czech Republic; the Research Centre for Astronomy and Earth Sciences of the Eötvös Loránd Research Network (ELKH CSFK), Budapest, Hungary; and the National Institute for Earth Physics (NIEP), Magurele, Romania. The Main Centre of Special Monitoring National Center for Control and Testing of Space Facilities, State Agency of Ukraine joined CEEIN in 2019. We present the first CEEIN bulletin (2017-2020) of infrasond-only and seismo-acoustic events, and using ground truth events, we demonstrate how adding infrasond observations to seismic data in the location algorithm improves location accuracy. We show how the CEEIN infrasond arrays improve the detection capability of the European infrasond network and identify coherent noise sources observed at CEEIN stations.