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IMS infrasound data products for atmospheric studies and civilian applications – 2021 and 2022 updates

Patrick Hupe¹, Lars Ceranna¹, Alexis Le Pichon², Robin S. Matoza³, and Pierrick Mialle⁴

¹Federal Institute for Geosciences and Natural Resources (BGR), B4.3, Hannover, Germany (patrick.hupe@bgr.de)

²CEA, DAM, DIF, F-91297 Arpajon, France

³Department of Earth Science and Earth Research Institute, University of California, Santa Barbara, CA, USA

⁴CTBTO, IDC, Vienna, Austria

We present recent and planned updates of the infrasound data products of all certified infrasound stations of the International Monitoring System, which was established in the late 1990s for verification of the Comprehensive Nuclear-Test-Ban Treaty (CTBT). The updates extend the four data products initially published for the 2003 to 2020 period (<https://doi.org/10.5194/essd-14-4201-2022>) by two years and thus complete a 20-year period.

Our intention for these data products is to facilitate using this unique global infrasound dataset for scientific applications. The products open up the IMS observations to user groups who do not have access to IMS data or are unfamiliar with data processing using the Progressive Multi-Channel Correlation (PMCC) method. We demonstrate the updated data products based on recent and global infrasound sources such as volcanic eruptions and ocean ambient noise and highlight the provided detection and quality parameters.