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P3.5-855

- Ambient noise conditions at infrasound stations are **highly variable** by location (e.g., vegetation, WNRS) as well as season and daytime.
- A high temporal resolution of ambient infrasound **noise characterization is crucial** for assessing the detection probability of explosions.
- For a realistic estimate of the station noise statistics, we computed power spectral densities for continuous records at **all elements of the 53 IMS stations** that were operational in **2019–2024**.
- Hourly noise calculations** are useful for the assessment of the detection capability of the IMS network at high temporal resolution – towards (near-)real time (see **O4.1-407**).
- Find out more about the **spatio-temporal comparison** of the IMS infrasound stations' noise at **P3.5-855**!



IS26, Germany



IS27, Antarctica

