

## **Status of infrasound and seismic metrology at CEA**

The level of confidence expected by the measurement produced by geophysical measurement chains is a guarantee of quality for the data that are processed in the subsequent analysis process and the elements necessary for the resulting decision-making. The CEA's metrology activity in the infrasound and seismic fields has historically contributed to the development of this confidence. The fields of low-frequency dynamic environmental metrology are not for the most part covered by the international metrology organizations, both private and public, responsible for materializing and ensuring the connection of measurements to the international system of units, although this is a fundamental part of the guarantee of measurement control. In order to respond to this lack, the CEA has been developing for several years an R&D activity in metrology aimed at equipping itself with laboratories, standards and calibration methods designed to meet current and future metrological challenges. This presentation will focus on CEA's metrology activity through its new measurement and testing facilities dedicated to infrasound and seismic sensors as well as its R&D work in metrology.

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