

## **way of modernization of infrasound observation network of Ukrainian NDC**

To date, the Ukrainian infrasound observations network requires global modernization and technical re-equipment. To create conditions for compliance with the international practice, Ukrainian NDC plans to carry out work related to improving the characteristics of the two infrasound arrays. The first phase will be significantly expanded arrays aperture and improved characteristics of a noise reducing systems. The dimensions of the aperture will be increased from 130 to 700 meters. Moreover, the all infrasound arrays will be placed inside the protected area. In the second phase, the lower range of infrasonic signals recording will be expanded. To this end, the design parameters microbarographs bandpass filters are modified, and in some cases, exposure of filters on the signal path to be excluded. After this modernization, microbarograph will be able to record signals from atmospheric pressure variations (periods 1 - 10 hours). In this mode microbarograph will be used for registration of small-scale airborne gravity waves and other global long-period signals of natural origin.

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