

## **for installing the four-element infrasonic array at the Ukrainian Antarctic Station Academic Vernadsky.**

Since 1996, Ukraine operates a scientific station in Antarctica. The station is called Academic Vernadsky and it is located on Galindez Island, 7 kilometers from the shoreline of the Antarctic Peninsula. In 2001, on the station was installed a seismoacoustic complex of equipment for studying geophysical processes and climate. This complex consists of a three-component seismograph and one microbarograph. To date, the issue of modernizing the infrasonic component of the complex has become acute. The infrastructure of the station and the size of the island allow it to accommodate a four-element infrasonic array in the form of a triangle with one element in the center with a maximum aperture of 600 to 750 meters. Elements of the array are planned to be placed on rocky bases, rather than on ice, which will somewhat simplify the operation of the system. This array is planned to be used for studying natural phenomena in Antarctica and in combination with other means for studying global climate changes. 45 km to the north from Vernadsky is the station Palmer (USA), which also has an infrasound complex. The joint use of data from two stations will make it possible to locate local sources of infrasonic signals.

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