

The press service of the Murmansk Arctic University (MAU) reported that scientists of the university created a system that automatically measures the mass of cargo on ships at low temperatures. The new technology has already begun to be used in a simplified form in the Murmansk Sea Trade port.

Typically, the mass of the cargo is determined by the drafts of drafts, in which a specialist must manually read the depth tags on board the vessel. This takes considerable time and requires access to the ship. Automation of the process helps not only reduce measurement costs, but also reduce a simple vessel in the port.

The development of the MAU is built on domestic components, including metal structures, sensors, communication systems and uninterrupted power sources. Scientists managed to adapt the system to extremely low temperatures of the Arctic, establishing accurate data transfer and stable work in severe conditions.

To date, the transport barge in the port has already been equipped with the basic version of the system. Measurements comparable in accuracy with the traditional method are transmitted in real time to employees. This simplifies control and accelerates logistics.

Now preparations are underway for the implementation of the full version of the system and the testing of its autonomy in the field.