The Arctic Vector in the Uniformity of Measurements Ensuring in Yakutia

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key words

North Yakutsk support zone, unit transfer system, autonomous operation, metrological laboratory

The solution of the most important tasks of the development of the Russian Arctic zone is impossible without high-quality and reliable metrological support, including in the North Yakutsk support zone. We analyzed the factors influencing the metrological activity in this region. We noted the differences in ensuring the uniformity of measurements in the territories located north and south of the Arctic Circle.
We believe that new branches of the Yakutsk CSM should be created on the basis of a block-modular principle, which will allow them to be transported to a new location without violating the metrological serviceability of standards and measuring equipment. Today, it is promising to develop a mixed radial-circular system for ensuring the uniformity of measurements based on mobile-stationary CMS and metrological laboratories, taking into account bilateral comparisons. There are also technical possibilities for creating Arctic versions of metrological laboratories, as well as traditional mobile laboratories based on road, water, rail and air transport, which is most applicable in the conditions of the north.

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