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The experience of weather services for international sports and cultural events is analyzed on the basis of the developed Roshydromet concept, which includes a comprehensive system for the development of high-detail weather forecasts based on the application of the results of numerical weather prediction with high spatial and temporal resolution. It is shown that the developed concept is applicable to weather services for Moscow as a megalopolis. The concept is under development and adaptability of use to any outdoor event. Special attention is paid to the diagnosis of severe weather events using remote sensing of the atmosphere and observations at weather stations. The relevance of the results is confirmed by the application of the presented approaches during the preparation of weather services for the 2023 FISU Summer World University Games in Yekaterinburg.

Keywords: sports and cultural events, specialized high-detail weather forecast, key factors of weather services, local weather offices, the concept of weather services, integrated weather forecasting system, specialized web interface, high-resolution models.

Fig. 29. Ref. 14.