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**Analysis of the synoptic processes leading to the occurrence of tornadoes in the Kursk region and nearby areas** / Sannikova G.V. // Hydrometeorological Research and Forecasting, 2023, no. 2 (388), pp. 93-113.

The cases of tornado occurrence in the Kursk region and the nearest areas of the Belgorod and Orel regions in 2003 and 2019–2022 are considered. The conditions for the occurrence of the analyzed severe weather event are analyzed on the basis of surface, aerological, and satellite observations. The cases of mesocyclone tornadoes that led to the most devastating consequences, including death of people, are identified. The cloudiness parameters, air mass types, and variants of synoptic conditions accompanying tornadoes are systematized. The necessity of using data of numerical simulations with mesoscale models for tornado detection using DMRL-C radars is demonstrated.

*Keywords:* tornado, supercell, Chernozem region, Kursk region, DMRL-C

Tab. 4. Fig. 9. Ref. 15.