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Diagnosis of squalls in snowstorms based on DMRL-C Doppler weather radar data /
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The results of studying the diagnosis of squalls in snowstorms based on DMRL-C Doppler weather radar data are presented. The diagnosis of squalls is performed using the algorithm developed in the Hydrometcentre of Russia for diagnosing showers based on the maximum convective velocity calculated from radar data (maximum radar reflectivity in a cloud and the cloud top height). The algorithm implies the determination of the fact of the occurrence of squalls for three speed gradations (15-19 m/s; 20-24 m/s; ≥ 25 m/s) and the refinement of wind speed during a squall.

Keywords: diagnosis, radar data, snowstorm, squall

Fig. 6. Ref. 7.