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Impact of dust and sand storms on the aviation operation and assessment of conditions for their occurrence at aerodromes in European Russia / Ivanova A.R., Skriptunova E.N., Komasko N.I., Zavialova A.A. // Hydrometeorological Research and Forecasting, 2020, no. 4 (378), pp. 78-95.

A review of literature on the impact of dust and sand storms on the air transport operation is presented. Observational data on dust storms at the aerodromes of European Russia for the period of 2001-2019 are analyzed. The seasonal variations in dust transport episodes at aerodromes and its relationship with visibility changes are discussed. The characteristics of dusty air masses and advection are given. It is concluded that the frequency of dust transfer episodes for the aerodromes under study has decreased over the past five years, except for Gumrak aerodrome (Volgograd).

Keywords: dust storm, sand storm, aviation, visibility, seasonal variations, aerodrome of European Russia

Fig. 6. Tab. 4. 6. Ref. 16.