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**Experience of using the Kalman filter to correct numerical forecasts of surface air temperature** / Alferov Yu.V., Klimova E.G. // Hydrometeorological Research and Forecasting, 2020, no. 4 (378), pp. 28-42.

A possibility of using the one-dimensional Kalman filter to improve the forecast of surface air temperature at an irregular grid of point is studied. This mechanism is tested using the forecasts obtained from different configurations of two different numerical weather prediction models.

An algorithm for the statistical correction of numerical forecasts of surface air temperature based on the one-dimensional Kalman filter is constructed. Two methods are proposed for estimating the bias noise dispersion. The series of experiments demonstrated the effectiveness of the algorithm for the bias compensation. The most significant results are achieved for the models with large bias or for long-range forecasts. At the same time, the use of the algorithm has little effect on the root-mean-square error of the forecast.

*Keywords:* hydrodynamic model of the atmosphere, numerical weather prediction, statistical correction of numerical forecasts, Kalman filter

Fig. 8. Ref. 12.