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**Testing a new SnowDraw snow cover model for climate forecasting of Elbrus glaciation dynamics** / Drozdov E.D., Toropov P.A. // Hydrometeorological research and forecasts, 2025, no. 4 (398), pp. 74-93.

A new specialized SnowDraw snow cover model of intermediate complexity aimed at climate forecasting of glacier dynamics and river runoff in mountainous regions was tested for the Elbrus mountain glacier. The model verification versus direct observation data from the mountain glacier demonstrated a high-quality reproduction of the seasonal dynamics and water content of the snow cover. A comparison of results of the presented model with other available models of different complexity (NoahMP, SNOWPACK) demonstrated that it is a computationally efficient and high-quality tool for forecasting snowpack dynamics and glaciation in the mountains. Using the presented model as the IGRICE parameterization module for mountain glaciation allowed obtaining estimates of a long-term snow cover distribution and a snow component of runoff for the Elbrus glaciation.

*Keywords:* numerical modeling, observations, snow cover, verification, Elbrus, Garabashi glacier, IGRICE model

Fig. 6. Ref. 22.