DOI: https://doi.org/10.37162/2618-9631-2023-3-125-138

Spatial distribution of meteorological conditions in the Zeravshan River basin and their correlation with the Zeravshan River runoff / Normatov I.Sh., Sharofzoda F.A., Normatov P.I., Ashurov M. // Hydrometeorological research and forecasts, 2023, no. 3 (389), pp. 125-138.

Correlations between average long-term values of meteorological parameters at weather stations over the period of 1950–2021 are investigated for the western, central, and eastern subregions of the Zeravshan River basin. The analysis of the data made it possible to obtain the information about the air masses transporting moisture, as well as about the distribution of precipitation depending on local orography, geographic latitude, and elevation. The seasonal distribution of long-term average annual runoff of the Zeravshan River is studied. The correlation analysis revealed that the maximum value of the correlation coefficients between the period of maximum runoff (VI-VIII) and the value of precipitation and temperature corresponds to the spring (III-V) and summer (VI-VIII), respectively.

Keywords: correlation, Zeravshan River, precipitation, temperature, river runoff

Tab. 2. Fig. 8. Ref. 15.