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SEASON DYNAMICS OF THE TEMPERATURE MODE OF BILOOZERSKYI MASSIVE OF RIVNE NATURAL RESERVE

Purpose. The purpose of the research is to analyze the temperature regime of the Biloozerskyi massive of Rivne Nature Reserve according to the data of the three nearest meteorological stations and to identify its dynamics and patterns.

Methods. In the work are used the results of observations of the air temperature of the meteorological stations in Sarny, Lyubeshiv and Manevychi for the period of 2006-2018, which are freely available on the Internet: <http://www.pogodaiklimat.ru>. Climatological information was analyzed during the research

. Mathematical statistics calculations have been applied to determine the decade air temperatures. Techniques for building graphical models (Excel software) for the annual course of air temperature were used. Graphic models set the date of transition of air temperature across thresholds, the length of periods with different temperatures and the length of periods with winter thaw and high summer temperatures.

The work is based on statistical, analytical, comparative, graphic and descriptive research methods.

Results. The daily, ten-day, monthly, annual, and long-term values of air temperature were analyzed and the date of steady transition of average daily air temperature across thresholds was established. The dynamics of starting and ending dates of different seasons and their duration are investigated.

It is established that the duration of different seasons varies and varies significantly over the years.

The cold season covers the winter and is characterized by alternation of cold and warm periods: the flow of cold air masses is accompanied by a decrease in air temperature, and the flow of warm air masses is accompanied by short or long thaws.

In general, most of the winter is thawed days. The warm season covers spring, summer and autumn. Spring is the least longest and most dynamic period of the year. According to the peculiarities of the development of circulation processes and the rate of change of air temperature, spring and autumn are divided into several periods. The division of the transitional seasons into periods is conditioned by the beginning and the end of the warm period and the periods of vegetation and active vegetation. Summer is the longest period of the year. The summer is characterized by periods with high temperatures, when maximum temperatures are recorded in different grades.

Scientific novelty. The research of the temperature regime of the protected area under the conditions of modern climate change is carried out. The dates of beginning and ending of different seasons, their duration and dynamics are established and regularities are formed.

The practical significance. The materials of the research can be used for further meteorological research of nature reserves, for the needs of recreation, agrometeorology and in the educational process in the study of regional disciplines.

Keywords: air temperature, steady transition of air temperature, seasons, Rivne Nature Reserve.

References

1. Voloshynova N. O. Klimatychni osoblyvosti Rivnenskoho pryrodnoho zapovidnyka za 2000-2008 rr / N. O. Voloshynova, A. O. Horbach // Zberezhennia ta vidtvorennia bioriznomanittia pryrodno-zapovidnykh terytorii / Red. kol. Budz M. D. ta in. – Rivne: VAT «Rivnenska drukarnia», 2009. – S. 755-759.
2. Zuzuk F. V. Klimat / F. V. Zuzuk, I. M. Netrobchuk, M. M. Hanushchak // Pryroda Zakhidnoho Polissia, prylehloho do Khotyslavskoho kar'ieru Bilorusi: monohrafiia / za red. F. V. Zuzuka. – Lutsk: PP Ivaniuk V. P., 2014. – 246 s. – S. 66-90.
3. Pavlovska T. S. Heohrafiia Volynskoi oblasti [Tekst]: navch. posib. / T. S. Pavlovska; za red. prof. I. P. Kovalchuka. – Lutsk: Vezha-Druk, 2019. – 212 s. – S. 52-57.
4. Pohoda y klymat. [Elektronnyi resurs]. – Rezhym dostupu: <http://www.pogodaiklimat.ru/>

5. Tarasiuk N. A. Atmosferna tsyrkuliatsiia ta dynamika vitrovoho y termichnoho rezhymiv na terytorii pivnichnoho skhodu Volynskoho Polissia / N. A. Tarasiuk, F. P. Tarasiuk // Pryroda Zakhidnoho Polissia ta prylehlykh terytorii: zb. nauk. pr. / Volyn. nats. un-t im. Lesi Ukrainky; [vidp. red. F. V. Zuzuk ta in.].— Lutsk, 2008.— № 5. — S. 13-23.

6. Tarasiuk F. P. Klimat mista Sarny ta prylehlykh terytorii / F. P. Tarasiuk, N. A. Tarasiuk // Pryroda Polissia: doslidzhennia ta okhorona / Red. Zhuravchak R. O. — Rivne: Ovid, 2014. — 680 s.: il. — S. 237-246.