Formulation of the problem. In recent years, the cluster approach has become a key tool of tourism policy in the leading European countries. However, our country still has little experience in creating tourist clusters, since it is a relatively new direction in tourism development. In addition, Ukraine has insufficiently developed legal and informational support for creation and operation of tourist clusters.

To assess the potential of tourist cluster development in Kharkiv region it is necessary to analyze a number of factors, such as natural-geographical, historical-cultural and socio-economic ones, which determine the creation of a regional tourist market.

Analysis of recent research and publications. Many works by foreign and Ukrainian scholars, including A. Trebukh [12], S. Sokolenco [9], M. Porter [6], M. Rutinsky, T. Tkachenko [11], I. Dyshlovoi [4], M. Slipenchuk and others, are devoted to the theories and methodologies of tourist clusters. A tourist cluster is understood as a set of economic functions and methodologies of tourist clusters. A tourist cluster is understood as a set of economic functions and methodologies of tourist clusters. A tourist cluster is understood as a set of economic functions and methodologies of tourist clusters. A tourist cluster is understood as a set of economic functions and methodologies of tourist clusters.
The territory, located at moderate latitudes, receives sufficient amounts of solar radiation: sunlight duration in winter is 8 hours, in summer - 16-17 hours. Total duration of sunshine is gradually increasing from March (116 hours) to June (290 hours), furtheron it decreases. In total, it is over 1900 hours per year. The temperature regime of the territory is determined by annual radiation balance, positive in summer and negative in winter.

Instability of air temperature in winter is due to a significant change in circulatory factors in the Atlantic-European region [3]. In summer, the temperature regime of the territory is determined by radiation factors. The hottest months of the year are July and August with average monthly temperature of 22.7 °C and 21.5 °C, respectively. The southeastern part of the region is distinguished by high air temperatures and low rainfall [7-8].

In the warm period of the year, the surface of the region is a green array of forests, fields, meadows. The amount of solar radiation is sufficient. Evaporation increases in conditions of cloudless weather, contributing to the development of convective clouds, forming stormy short rains. Forests are preserved in the river valleys: on steep slopes, upland terraces and the Siversky Donets catch. Forest arrays soften temperature indices relative to the open area, reduce wind speed and have greater air humidity.

Thus, on the territory of Kharkiv region winter is moderate and cold, while the summer is moderate and hot. In general, the eastern part is colder than the western one. In the north-western areas there are fewer dry wind days.

Humidity affects weather conditions of the territory, determining its recreational and tourist use. Rainfall distribution per months and territories is uneven in the studied region: in the cold season there is less precipitation, with rain and snow predominating. In the warm period of the year precipitation is more intense but less prolonged.

Modern wind conditions are characterized by decrease in wind speed: winter period with a maximum in February is characterized by the highest speed. In summer, there is a significant decrease in speed with minimum is June. Eastern winds have greatest repetition in the cold period of the year (December, January, February, March). Western and northwestern winds prevail in summer, south-eastern ones prevail in spring.

Analysis of wind directions repetition indicates the warm and winter seasons. Winds of a western component dominate in the warm season, while in winter they blow eastward.

Hence, climatic resources of Kharkiv region are favorable for recreation, especially for summer types, such as beach, sports, cognitive recreation.
Table 1
Territory assessment for stationary recreation [14].
Climate, vegetation, reservoirs, relief are gradually assessed

<table>
<thead>
<tr>
<th>Indices</th>
<th><strong>Climate</strong> (favourable climatic conditions during:)</th>
<th><strong>Forest vegetation</strong></th>
<th><strong>Water reservoirs</strong></th>
<th><strong>Relief</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Best</strong></td>
<td>10-11 months: - - warm summers and moderately cold winters with a stable snow cover; - hot long summer and short warm winter without a stable snow cover</td>
<td>dry pine, broadleaf, coniferous-deciduous forests, mixed with admixture of subtropical species</td>
<td>warm seas with temperature of &gt; 17 ° C for 3-4 months</td>
<td>mountainous (up to 2 km), foothill, ordinary: divided</td>
</tr>
<tr>
<td><strong>Good</strong></td>
<td>7-9 months: hot and dry summers and mild winters with stable snow cover</td>
<td>dry dark coniferous, deciduous, cedar, small-leaved forests</td>
<td>warm lakes and large rivers, cool seas with temperature 16 ° C for 2-3 months</td>
<td>step-by-step, erosion-divided</td>
</tr>
<tr>
<td><strong>Satisfactory</strong></td>
<td>3-6 months: cool rainy summer and mild winters with unstable snow cover or hot dry summers and harsh winters.</td>
<td>partially marshy dark conifers, deciduous and mixed forests</td>
<td>cool lakes, water reservoirs, rivers and cold seas</td>
<td>Hilly, weakly divided</td>
</tr>
<tr>
<td><strong>Bad</strong></td>
<td>2-3 months: hot dry summers and unstable winter with little snow cover or without it.</td>
<td>Near-tundra woodland, deciduous forests in combination with bogs</td>
<td>warm small and large cool water reservoirs</td>
<td>flat-hilly</td>
</tr>
<tr>
<td><strong>Very Bad</strong></td>
<td>1-2 months: short cool summers and long winter or hot summers and snowless winters</td>
<td>marsh forests, forest tundra, forests in swamps and small forest areas among agricultural lands</td>
<td>cold water reservoirs and cold small rivers with temperatures &lt; 12 ° C.</td>
<td>flat or mountainous (inaccessible terrains)</td>
</tr>
</tbody>
</table>

Table 2
Parameters of optimum climatic conditions for recreation [14]

<table>
<thead>
<tr>
<th>Indices</th>
<th>Summer period</th>
<th>Winter period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average daily air temperature, °C</td>
<td>15 - 26</td>
<td>-10 … -25</td>
</tr>
<tr>
<td>Wind speed, m/s</td>
<td>Up to 5</td>
<td>Up to 5</td>
</tr>
<tr>
<td>Heliotherapy, days</td>
<td>105 - 120</td>
<td>-</td>
</tr>
<tr>
<td>Duration of beach-bathing period, days</td>
<td>60 - 90</td>
<td>-</td>
</tr>
<tr>
<td>Snow cover thickness, cm</td>
<td>-</td>
<td>10 - 40</td>
</tr>
<tr>
<td>Duration of the period for winter sports, days</td>
<td>-</td>
<td>45 - 60</td>
</tr>
</tbody>
</table>

According to N. Fomenko’s methodology of estimating the recreational territory (Table 1), the climatic resources of the studied region correspond to the indicator "good", as well as to the parameters of optimal climatic conditions for recreational purposes (Table 2).

Water resources of Kharkiv region are represented by rivers, lakes, swamps, ponds, reservoirs, canals, water conduits, underground waters. All watercourses and water objects of the region belong to the basins of the Don and the Dnieper rivers, covering respectively 3/4 and 1/4 of its territory, and are objects of national importance. The river network is unevenly distributed across the territory. The main river of the region is Siversky Donets with tributaries of the Oskil, Udy, Mzha. In Kharkiv region there are 57 reservoirs and 2538 ponds. Among them there are large reservoirs: Pecheniz'ke on the river Siversky Donets, Chervonooksilske on the Oskil River, Chervonopavlivske on the Dnipro-Donbas Canal.
Kharkiv region is weakly and unevenly supplied with groundwater resources [1]. However, there are conditions for recreation development, especially in the coastal zones of such watercourses and reservoirs as the Siversky Donets, the Oskil river, and the Pecheniz’ke and Chervonozkilske reservoirs built on them. The region ranks fifth in Ukraine (after Chernihiv, Kyiv, Poltava and Kherson) in total groundwater reserves. Here, there are sufficient reserves of underground waters with low-mineralized hydrocarbon calcium composition, sodium chloride of various mineralization with healing properties and are used for therapeutic purposes. Resort and health-improving territories occupy 12,000 hectares. Kharkiv region is one of the main centers of balneotherapy on the left bank of Ukraine. The richest mineral water reserves are Berezivsky mineral waters and Rai-Olenivka [13]. These water resources correspond to the indicator "satisfactory" according to [14] (see Table 1).

The territory of Kharkiv region is located in two landscape zones - the forest-steppe (northern part of the region) and the steppe (southern part). Today steppe vegetation has almost disappeared, which is explained by excessive agricultural activity. The steppes have been plowed, with the exception of small protected areas of natural parks. Forests occupy 318 thousand hectares on the territory of the region. More than 1000 species and forms of trees and shrubs grow in the forests and parks of Kharkiv region.

The most widespread forest species are pedunculate oak and Scots pine. Spruce is also often found, as well as linden, maple, ash. Significant areas of broadleaf forests have survived on elevated sections of the right bank of the Siversky Donets and its tributaries Udy, Lopan, Kharkiv, and others. Forest resources according to N.Fomenko [14] (see Table 1) correspond to the indicator "good".

Conclusions. Thus, the main factors determining the organization of tourist and recreational activity on the territory of Kharkiv region are relief, climate, water and vegetation resources [13]. The region under study has sufficient recreational and tourist resources and good potential for their development, primarily of cognitive, river recreational, green and ecological tourism.

References
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