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Complex study of current state of the Bolgar fortified settlement territory (Tatarstan, Russia)

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Abstract

© 2018 Academy of Sciences of Tatarstan, A.Kh. Khalikov Archaeology Institute. All rights reserved. The scientific task of creating a system for assessment of cultural heritage object (monument of archaeology) territory state using both archaeological and geoecological research methods has been solved by the authors. A new method for assessing the risks of destruction of archeological monuments within the territory of the Bolgar fortified settlement with the use of remote sensing methods, complex field studies and cartographic-geoinformation approaches to data processing is developed. Modern instrumental methods have been used in order to collect information on dangerous exogenous processes and anthropogenic impact within the monument territory. An analysis of the changes in the functional use of the Bolgar fortified settlement territory with the aid of a multi-time aerial survey was carried out. Series of both inventory and evaluation maps, as well as recommendations for minimizing the impact on the archaeological heritage object under study are the results of the conducted studies. The obtained results will be used by the authors for creation a methodology for assessing the risks of destruction of archeological monuments.

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Keywords

Anthropogenic factor, Archaeology, Cultural heritage, Exogenous processes, Fortified settlements, Geoinformation systems, Middle Ages, Remote sensing

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