

## GEOINFORMATION ASSESSMENT OF THE RISKS OF FOREST FIRES IN THE BASIN OF LAKE BAIKAL ON THE MATERIALS OF STATE STATISTICS

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The article presents the results of geoinformation mapping of the risks of natural forest fires in the territory of the transboundary basin of lake Baikal based on the materials of the state statistics of Russia and Mongolia for the period 1998-2018. A comparative spatio-temporal analysis of the frequency and area of fires, their scale is performed, the main factors of fire hazard and the causes of fires are considered. A method of geoinformation mapping of forest fires based on statistical materials has been developed. As a technological solution for storing, processing and calculating operations with statistical data, the creation of a vector storage of statistical data of the ArcGIS software environment is proposed. The repository is compiled by means of overlay operations with layers of territorial divisions of statistical accounting of forest fires, a fragment of the repository is presented. The integral risk was assessed in the context of forest areas based on the calculation of specific indicators of physical, economic and social risks. A map of the integral risk of forest fires in the lake basin within the boundaries of forestries has been compiled.

**Keywords:** natural forest fires, fire hazard, statistical materials, risk assessment, geoinformation mapping, GIS

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