

# Some Theoretical Aspects of Geo-Cartographic Modeling

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**Key words and phrases:** probability of model, geological field, geologic-cartographic object, geo-cartographic modeling, cartographic information, forecast estimation criterion, the factor of minerals, modeling, search criterion, prediction of deposits.

**Abstract:** The paper deals with the questions of geological and cartographic modeling for the purpose of predicting mineral resources deposits in GIS technologies. It reveals a new understanding of cartographic information. The definition of geo-cartographic- objects and classification of prediction criteria along with their significance are given. The formula of probability model in terms of the number of used objects is produced. Consideration is being given to the algorithm of prediction modeling.

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