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## DEVELOPMENT OF METHODS FOR DETERMINING THE AREA FLOODED BY DEM FOR HYDROLOGICAL MODELING (FOR EXAMPLE, THE AKSAI RIVER BASIN)

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References: 17th International Multidisciplinary Scientific GeoConference SGEM 2017, [www.sgem.org](http://www.sgem.org), SGEM2017 Conference Proceedings, ISBN 978-619-7408-03-4 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 23, 465-472 pp, DOI: 10.5593/sgem2017/23/S11.057

### ABSTRACT

Mathematical modeling of river flow formation processes is the basic research and engineering tool for modern hydrology. Despite a number of undoubted successes in modeling and a fairly wide introduction of models into practice, a number of problems remain that point to the fundamental difficulties of traditional approaches to the problem. The most important among such tasks are: assessment of the regime of extreme hydrological events, primarily floods; Use of hydrological models on unexplored basins; Perspective forecast of the hydrological regime under expected

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