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EVALUATION OF THE HEC-1 MODEL FOR FLOOD FORECASTING AND SIMULATION IN THE HORMOZGAN PROVINCE, IRAN

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ABSTRACT

Frequent flood occurrences in the Hormozgan province in the south of Iran cause immense damage to infrastructure, parts of cities and numerous villages, and also claim a number of lives. To study floods of this province, and a means to control them, an integrated plan in a multidisciplinary perspective was formulated with a focus on the hydrology of the province. The main obstacle for hydrology studies was the availability of discharge data. Because of this problem, rainfall-runoff simulation was identified as the better way to analyze flood hydrographs and frequency. To acquire data, more than 90 rainfall stations and 20 discharge stations in the province and surrounding areas were analyzed. For proposed simulation we assessed different models, and from them we selected HEC-1. Results of wide implementation of this package to the study area show its good performance for flood simulation and prediction, but some points should be considered. These are discussed in the paper.

Reference: Morid, S., H. Ghaemi, H. Mir Abolghasemi, and M. Abediny; *Evaluation of the HEC-1 Model for Flood Forecasting and Simulation in the Hormozgan Province, Iran*, *Journal of Environmental Hydrology*, Vol. 9, Paper 9, May 2001.

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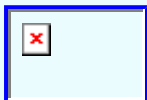
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