عنوان مقاله:

Computation of Flood Severity in a River Valley for long-term Flood Safety Management

محل انتشار:

هشتمین سمینار بین المللی مهندسی رودخانه (سال: 1388)

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خلاصه مقاله:

Climate changes strongly affect the occurrence of floods. This paper emphasizes the importance of flood severity computation in a river valley. For hydraulic analysis, about 329 km long, the Jhelum river valley downstream of Mangla dam in Pakistan has been considered. The project reach has been modelled for unsteady flow conditions with MIKE 11 (1D). The flood severity has been computed downstream of the dam for different flooding scenarios by following various flood severity criteria and results have also been compared. The information about flood severity at downstream river locations plays a very important role in dealing with flood risk assessment and damage estimation.

کلمات کلیدی:

extreme flooding, flood severity, Jhelum river valley, MIKE 11