

“Monitoring of Bank line Erosion of River Ganga, Malda District, West Bengal: Using RS and GIS Compiled with Statistical Technique”

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Abstract

The creation of regional imbalance, inequalities and differentiation in India, starts with the physiographic element and ends with economic, and socio-cultural parameters of the inhabitants/population. An attempt has been made to analyze and report the river bank erosion due to morphometric changes of the river Ganga, Malda district making thus portion a high risk zone. In geomorphic orientation the shifting course of river Ganga is causing large scale disaster in terms of flooding and bank failure in Malda and Murshidabad Districts, West Bengal, India. River bank erosion/failure and flooding in these two districts have become a chronic phenomenon since early '60s and the problem manifested itself to formidable magnitude during the last five decades. For that physical process namely river bank erosion may affect the economic and socio-cultural aspects and creates drastic change over the period. Continuous monitoring and maintenance of these flood induced river bank management are necessary for the beneficial result. The distressed people demand a holistic and positive approach to tackle the problem.

Keywords: River Migration, banks failure, paradigm shift, mitigation of disasters, Sustainable water resource management, remedial measures.