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## **Bank erosion processes in Mekong river**

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Bank erosion models have supplemented in recent years by the combination of fluvial erosion and mass wasting. As a one of the largest rivers in the world, Mekong river has its own characteristic of monsoonal flow regime leading to unique bank erosion processes. A finite element seepage module analyzes saturated and unsaturated parts of the river bank, a limit equilibrium stability model is applied for bank stability and empirical methods calculates the bank erosion rate, and all are fully coupled through the whole high flow year. Results are used to evaluate the magnitude of hydraulic erosion in river bank retreat, the role of pore water pressure and how important of hydrological and hydraulic factors such as rainfall and hydrograph which affect the bank erosion processes.