



Assessment of flood-sensitive areas by hazard, vulnerability and risk

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Free surface flow is strongly influenced by the presence of hydroengineering works. These structures also affect the size of the flooded areas, respectively the floodplain limits. Floods are extreme natural phenomena, not disaster themselves; they become disaster only as affecting the human factor and its activities. A very difficult problem about the assessment of flood-sensitive areas is to identify the actual damage, comparing and summing them, given that the damage has different causes. To define the concepts and elements for integrated risk assessment imply that all risks of the human and environment in a given region, can be systematically identified, analyzed and assessed.