



Operation of Dautieng reservoir for impacting to the risk of flooding in downstream under climate change

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The potential impacts of climate change on reservoir operation are a result directly in flooding in downstream. That are examined in this study for case Dautieng reservoir in Vietnam. A combine of effective methodologies is used to investigated: (1) Resulting from IPCC's scenarios (IPCC: Intergovernmental Panel on Climate Change) and basing on historical climate data, future climate data are generated by downscaling of Global Climate Model (GCM), (2) modelling watershed-based hydrologic and reservoir operation on basis of the climatic scenarios; (3) investigating various scenarios of reservoir operating rules to meet the risk of flooding in downstream. The results reveal that the impact of different climate change scenarios on operation rules in flood risk management will be probably significant and require adaptive ways for the future.