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Assessment on the Change of Inhabited Condition in Riverine Wetland under Climate Change

Jungwook Kim, Jaewon Jung, Young Hye Bae, Soojun Kim, and Hung Soo Kim

Inha University, Center for Hydrology and Ecology, Civil Engineering, Korea, Republic Of (rlawjddnr1023@gmail.com)

Abstract

Recently, the importance of wetland and its functions were come to the fore, so many wetland reconstruction projects were conducted. But, there is limited number of study for the environmental change. The objective of the study is therefore to forecast the change of inhabited condition for vegetation communities. With the Binae wetland, which are reconstructed as riverine wetland, the correlation between streamflow and inhabited condition was analyzed. Also, future meteorological data and runoff analysis were conducted based on the climate model and climate change scenarios, and inundation area and depth were simulated with HEC-RAS and RAS Mapper. As the result, the countermeasure is essential to deal with the change of inhabited condition in near future

Keywords: riverine wetland, climate change, inhabited condition