

EGU2020-6425

<https://doi.org/10.5194/egusphere-egu2020-6425>

EGU General Assembly 2020

© Author(s) 2020. This work is distributed under the Creative Commons Attribution 4.0 License.



Exploring Regional Drainage with Ecosystem Service in Taiwan

Yu-Min Fu, Yu-Chen Hsu, and Hung-Pin Huang

In Taiwan, the regional drainage is the system of two or more of urban, agricultural and enterprise drainages. Communities locate in or around the urban river, farmland or estuary are significantly involved in four services of ecosystem services. From 2016, central government forced each public construction project has to implement ecologic check work. However, these check work did not yet follow the idea of ecosystem services so that the operation of public construction projects in these two years could not reach the target completely. This study introduces the idea of ecosystem services into the ecologic check work of regional drainage projects to explore the feasibility of selected parameters in ecosystem services.

This study refers to ecosystem service strategies such as the Millennium Ecosystem Assessment (MEA, 2005), the Economics of Ecosystems and Biodiversity (TEEB, 2010) and the Common International Classification of Ecosystem Services (CICES, 2017), considering the extensiveness, feasibility, and regional characteristics of regional drainage for ecosystem services. In addition, this study designs two checklist forms for master plan and project, respectively. After implementing ecologic check work for three cases in Taiwan, the result explores the feasibility of ecosystem services in regional drainage system.