

# 水庫防洪運轉優選模式之建立-以石門水庫為例

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## 摘要

This paper developed a reservoir operation optimization model for flood control to identify the optimal releases during typhoon. The objectives of optimization model include: (1) maximizing the peak flow reduction at selected downstream control-points; and (2) meeting reservoir storage at the end of the flood. The study area is Shihmen reservoir system. In this paper, several typhoons are selected for applying optimization model. Comparing three scenarios of the historical operations and the optimization model running, the results show that optimization model are produce much better performances of two scenarios.

關鍵字：Flood control, Optimization model, Reservoir