

気象予測データの利用可能性に関する研究

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概 要 :

本報告書では、洪水時のダム管理に焦点を当て、気象庁が実施している予測雨量と地上雨量の比較を行うとともに、短時間の予測雨量を用いた流出予測シミュレーションを行い、現状の降雨予測情報の高水管理への適用性について考察する。

キーワード：降水短時間予報、数値予報、メソ・モデル、領域モデル、分布型物理モデル

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THE STUDY ON APPLICABILITY OF PRECIPITATION FORECASTING
INFORMATION FOR RIVER FLOOD MANAGEMENT

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Synopsis

In the past decades, weather forecast systems have been continuously improved due to sophisticated sensing and numerical modeling technique. Meanwhile most of the reservoir operations have been managed by empirical technique though there is still room for improvement by using such weather forecast systems. In this study, three kinds of grid-based weather forecast results have been compared with observations of rain observation station on the ground, and one of them is tested through applications for flood forecast in reservoir watersheds. The study shows that : 1) rainfall forecast of leading time of two hours is considerable for use; 2) dimension of floods could be held by using such systems; 3) accuracy of such systems would be raised if concerning area is larger than 1,000km²; 4) flood forecast using such systems especially when the leading time is several hours is effective for reservoir control.

Key Words : *precipitation forecasting information, river flood management, RAP, SRF, MSM, RSM*

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