Water resources Allocation of Major Watercatchment during Pro-long Drought in Peninsular Malaysia

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ABSTRACT

Existing estimation of water yield as water resources within multiple watercatchment is difficult and very limited for separate distinguished watercatchment. Thus, the information on water yield is not readily available, even if it available the reliability is very arguable due to scarcity of in-situ observation of the parameters involved over the reasonable period of observation. This then lead to difficultness on managing water in ensuring availability in watercatchment of owned agencies territory and fail to supply within consumer area. Even if the data available, it is far from reach in the knowledge for the neighboring watercatchment. In this paper, we emphasized on estimating water yield in watercatchment and asses the capability of satellite in delivering the measurement over multi-watercatchment in Malaysia Peninsular using hydrological models with primary input from TRMM and MODIS satellite data. Three crucial areas were selected due to their high demand on water usage on different sector namely Perak River Basin, Selangor River Basin and Pahang River Basin. The hypothesis is satellite data is capable in determining available catchment to be used as a second option in fulfilling the water scarcity in a primary watercatchment. Early results indicate that satellite data is capable in delivering most suitable catchment as a secondary source in urge condition.

Preferences: Oral presentation.

Proposed Presenter: Muhammad Izuan Nadzri.