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Baseflow measurement and analysis of Nakdong River in South Korea

Ryoungeun Kim¹ and Sangdan Kim²

¹Division of Earth Environmental System Science, Pukyong National University, Busan, Republic of Korea (fmryoung@naver.com)

²Department of Environmental Engineering, Pukyong National University, Busan, Republic of Korea (skim@pknu.ac.kr)

The Nakdong River is the longest river in Korea with watersheds throughout the Yeongnam region of Korea, and plays an important role as a water source for agricultural water, water supply and industrial water. There is a growing recognition that baseflow measurements are important for effective water management in these large watersheds. To effectively quantify baseflow, specific conductance (SC) data is used, the most effective parameter collected continuously. The baseflow is effectively measured by using SC data and watershed information such as runoff and precipitation for tank model and soil and water assessment tool (SWAT). Our results show that a management approach that considers surface water as well as subsurface water as a resource is important for the effective management of current and future water resources.

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