

STUDY OF FLOOD RISK EVALUATION TECHNOLOGY USING RADAR RAIN GAUGE INFORMATION

Abstract : Many flood damages have been recently occurred in small-scale rivers by typhoons, fronts etc. which brings localized heavy rain in a short time. Therefore, advanced risk management such as flood forecast/warning is needed. In this research, we analyzed the characteristics of space-time distribution (DAD analysis) of heavy rain using the radar rain-gauge and the ground rain-gauge information for recent typical storm events. We also examined the relationship between their DAD characteristics and rainfall of the designed flood, and the possibility to construct 'indicator of flood' using the relationship.

Key words : risk management, radar rain-gauge, DAD analysis, Heavy rain, Indicator of flood