# Abstract Details



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**Title:** Numerical Simulation of a Heavy Rainfall Event at a Mountain Area o Korean Peninsula: Role of Topography and GTS Data

**Abstract:**

The intense precipitation event that occurred on 31 July 1998 caused extensive flooding around Jiri mountain in the southern part of Korea precipitation event was simulated using a fine terrain data and NCEP/ Reanalysis plus GTS(Global Telecommunication System) as initial data MM5 mesoscale model. A control experiment simulates the observed precipitation peaks and the magnitude of the most intense precipitati The results of the experiment indicate that the precipitation is associa with the convergence of the upstream flow blocked by the mountain. sensitivity experiments were conducted to investigate the effects of G and topography. Even though only one GTS site exists in the model d the GTS produced a striking increase of the amount of precipitation compared with the experiment without GTS. The role of the topograp crucial the determination of the distribution and the amount of precip

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