



## **The flash flood disaster in Japan in recent years, and its analysis.**

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In recent years, in Japan, flash flood disasters by localized torrential rain have occurred frequently. We report the flash flood disaster which recently occurs in Japan. In addition, we try classification of them from occurrence mechanism.

Now, in Japan, there is the rainfall observation system by rain gauges (approximately 7,300 points) and radar rain gauges (46 points). Therefore, Japanese can know the real-time and high spatial resolution rainfall data. But, the forecast of local flash flood is not transmitted yet.

Taking the small drainage basin of mountain region where a flash flood disaster occurs as an example, we executed the calculation of peak discharge and flood hydrograph. The good result was obtained by adopting the spatially distributed rainfall data derived from the rainfall observation system as a result of the verification calculation.

In addition, we consider the feature of the drainage basin where flash flood is easy to occur due to localized torrential rains.