

## ***Interactive comment on “Simulating typhoon-induced storm hydrographs in subtropical mountainous watershed: an integrated 3-layer TOPMODEL” by J.-C. Huang et al.***

### **Anonymous Referee #1**

Received and published: 27 May 2008

The paper describes a study on using TOPMODEL in a small catchment in Taiwan. Although TOPMODEL has been applied to many catchments around the world and there are no new concepts/tools introduced in this paper, it is still useful to see the unique experience when such a model is trialled in a subtropical catchment. The confidence interval information is quite helpful. The scientific methods and assumptions are clearly outlined. The conclusions are sound. I support its publication if the following modifications could be implemented:

1) The authors should compare their parameters and modelling results with the published results from other researchers so that readers can see how different the case

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study is to other similar/dissimilar catchments.

2) There is only one raingauge in the catchment. Maybe the authors could get some nearby gauges to validate the rain gauge quality if possible.

3) P1106 L22, 'Here we applied the most economical empirical approximation'; why? Please explain.

4) P1111 L25, 'A sensitivity analysis is performed by changing 50.0% in single parameter';. Again, it would be useful to compare the sensitivities in this study with other published results.

5) Table 1 Total discharge (cms)? The unit is confusing. Is it a total volume of runoff? In that case,  $m^3$  should be used.

6) P1127, Fig 1 contours are not very visible. Please re-draw it with clearer lines.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 5, 1101, 2008.

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