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Interactive comment on “Integrating spatial and temporal probabilities for the annual landslide hazard maps in Shihmen watershed, Taiwan” by C. Y. Wu and S. C. Chen

C. Y. Wu and S. C. Chen

cywu@alumni.nchu.edu.tw

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The comments and corresponding responses were listed in the supplement.

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/1/C384/2013/nhessd-1-C384-2013-supplement.pdf>

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 1, 471, 2013.

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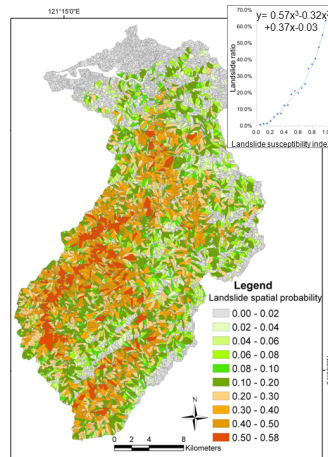
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Figure 7. Landslide spatial probability for the established model. The landslide susceptibility indices of fig. 5 were converted to landslide spatial probability using the relationship as shown in the upper right.

Fig. 1.

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1 Table 1. The multi-year landslide inventory in Shihmen watershed

Date	Landslide amount	Landslide area (ha.)	Note	Date	Landslide amount	Landslide area (ha.)	Note
1996/01/01	96	140.21	Before Typhoon Herb	2005/08/16	2152	807.17	After Typhoon Maska
1996/11/08	168	154.93	After Typhoon Herb	2005/09/21	2075	796.13	After Typhoon Taim
1999/08/17	331	214.95	Before Chichi Earthquake	2005/11/11	1726	816.61	After Typhoon Longwang
2000/01/29	357	289.61	After Chichi Earthquake	2006/10/20	1033	781.49	After Typhoon Shanshan
2000/10/11	610	295.77	Before Typhoon Xangsane	2007/08/28	2013	656.68	Before Typhoon Krosa
2001/03/15	803	584.72	After Typhoon Xangsane	2007/12/21	2062	700.08	After Typhoon Krosa
2001/08/22	556	428.30	After Typhoon Toraji	2008/08/16	1728	566.56	Before Typhoon Nuri
2001/10/13	691	429.84	After Typhoon Nuri	2008/08/24	1708	559.71	After Typhoon Nuri
2004/02/10	682	425.12	Before Typhoon Aere	2008/11/06	2000	704.44	After Typhoon Jangmi
2004/11/02	2188	750.52	After Typhoon Aere	2009/05/08	1889	732.22	Before Typhoon Morakot
2005/03/16	1437	632.63	Before Typhoon Haitang	2009/08/20	1860	779.31	After Typhoon Morakot
2005/07/25	2006	733.34	After Typhoon Haitang	2009/10/21	2521	789.92	After Typhoon Parma

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Fig. 2.

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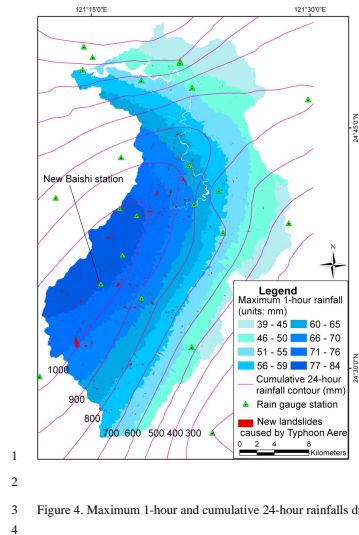


Figure 4. Maximum 1-hour and cumulative 24-hour rainfalls during Typhoon Aere.

Fig. 3.

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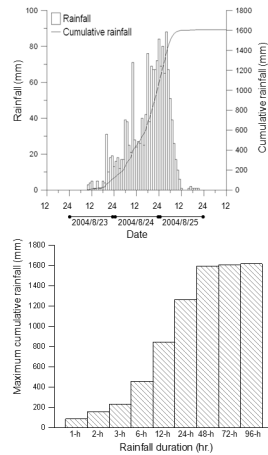
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3 Figure 2. The temporal pattern of rainfall recorded from New Baishi station during Typhoon
4 Aere.
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Fig. 4.

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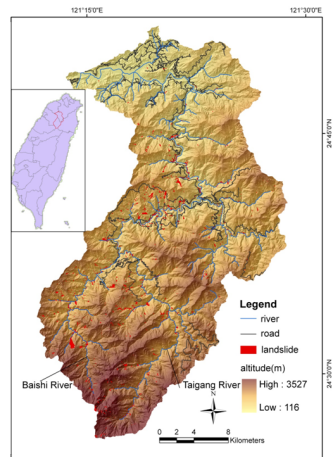
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3 Figure 1. The river system, roads, and topography of the Shihmen watershed. The landslides
4 were caused by Typhoon Aere in 2004.
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Fig. 5.

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