

## ***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

Received and published: 26 June 2013

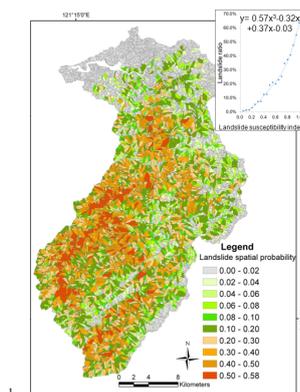
The comments and corresponding responses were listed in the supplement.

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

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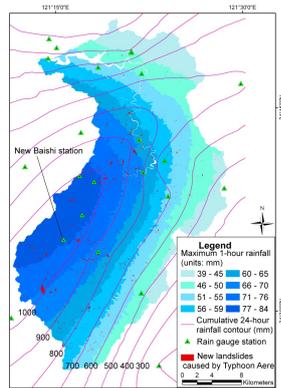
1 Table 1. The multi-year landslide inventory in Shihmen watershed

| 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 Maria    |
| 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 Chachi Earthquake | 2005/11/11 | 1726             | 816.61               | After Typhoon Lingsang |
| 2000/01/29 | 357              | 289.61               | After Chachi 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 Haitung   | 2009/08/20 | 1860             | 779.31               | After Typhoon Morakot  |
| 2005/07/25 | 2006             | 733.34               | After Typhoon Haitung    | 2009/10/21 | 2521             | 789.92               | After Typhoon Parma    |

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Fig. 2.

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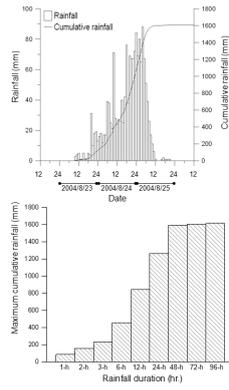
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3 Figure 4. Maximum 1-hour and cumulative 24-hour rainfalls during Typhoon Aere.

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Fig. 3.

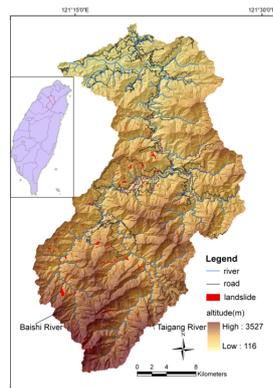
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3 Figure 2. The temporal pattern of rainfall recorded from New Baishi station during Typhoon  
4 Aere.  
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Fig. 4.

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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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