

Interactive comment on “Glacier lake outburst floods of the Guangxieco Lake in 1988 in Tibet, China” by J. J. Liu et al.

J. J. Liu et al.

chouchoujj@163.com

Received and published: 12 February 2014

Dear editor/reviewers:

We have made a thorough revision following the comments and instructions given by the two reviewers. The revisions are as follows:

1. The title and some sentences, which may be questionable (such as P4606L20-21, P4607L6. . .and so on) are all corrected or deleted.
2. References for the related statements (e.g., P4607L20, P4608L5) are added to the text.
3. We've deleted the data about the outer slope and runoff in the original text, because
C2547

they were measured in 2007 irrelative to the outburst conditions. It was written in the text to give the readers a more comprehensive understanding of a local region from June to July.

4. Although the relationships between the GLOFs and monsoon was mentioned by reviewer 1 sometimes. We insist that the GLOFs depend more on the local climate than on the monsoon, and there seems to be no direct evidence for the effect of monsoon, so the monsoon is not taken into account in our discussion.

5. The slope of ice snout was measured to be 2°-5° in fieldwork in 2007. it was not the slope in the outburst year.

6. The calculation of the volume of ice avalanche and discharge after peak discharge were both directly cited from the results in Lv et al (1999). In the references, the calculation method has not mentioned. We've asked the authors but received no response yet.

7. The outburst detail about the changes in lake area before and after outburst, the calculation of peak discharge and the definition of flood types all are added.

8. The Fig.1, Fig.3 and Table.4 were mentioned by reviewers all are corrected.

9. The Fig.4, Fig.6 and Fig.8 are added into text to explain the possibility of ice avalanche and describe the cross-sectional profiles of the Midui Valley.

We also have made a complete revision both of the organization and expression. We hope the revision will be satisfactory for your approval.

Yours sincerely,

Li Yong

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/1/C2547/2014/nhessd-1-C2547->

