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Interactive comment on “Paleoclimate and paleoseismic events discovered from the Diexi barrier lake on the Minjiang River, China” by X.Q. Wang et al.

X.Q. Wang et al.

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Received and published: 19 June 2014

All comments by Referee 1 have been addressed. Please also refer to the revised manuscript in Supplement.

Specific comments:

1 In section Geological background, author said “ The research area is located at northwestern Sichuan Plateau at the western edge of Tibetan Plateau...”(Row 19, Page 2691). In section Discussion author said “...we are considering that the climate change and geology environmental evolution of the eastern edge of Tibetan

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Plateau..."(Row 24, Page 2684). Please give more accurate description about the geography location of research area.

Reply: Addressed. There was a mistake in stating the geography location of the research area. It should be " The research area is located at northwestern Sichuan Plateau at the eastern edge of Tibetan Plateau...". Please see the revised manuscript (Row 24, Page 2684).

2 In Fig.1, the location of Diexi barrier lake can not be found. If it is necessary, please supply it.

Reply: Addressed. Please see the figure attached as below.

3 In section Methodology (Row 6 10, Page 2686), please give nationality for every criterion so that audience can know the application scope for every criterion.

Reply: Addressed. The nationality of test methods/standards have been indicated in the manuscript (Row 6 10, Page 2686). The relevant references are also given in the revised reference list (Pages 2693 - 2694).

4 Please give the scale for both Fig. 4 and Fig. 11.

Reply: Addressed. Please see the attached figures as below.

Technical corrections:

1 Row 24, Page 2689, the word Refering should be Referring.

Reply: Addressed. Please see the revised manuscript (Row 24, Page 2689).

2 Row 21, Page 2691, the word chage should be change.

Reply: Addressed. Please see the revised manuscript (Row 21, Page 2691).

We thank both reviewers and the editor for carrying out a deep reviewing and providing valuable comments to improve the quality of the manuscript.

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Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/2/C1134/2014/nhessd-2-C1134-2014-supplement.pdf>

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 2681, 2014.

NHESD

2, C1134–C1139, 2014

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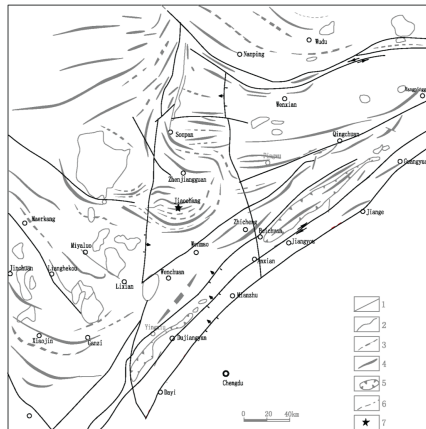
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1. Main faults; 2. Boundary of intrusive rock; 3. Syncline; 4. Anticline; 5. Klippe; 6. Inferred fault; and 7. the Dniester barrier lake

Fig. 1. Regional geology

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Fig. 4. Structure of lacustrine sediment in the Diexi barrier lake

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Fig. 2. Fig. 4. Structure of lacustrine sediment in the Diexi barrier lake

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Fig. 11. Earthquake-induced disturbance layer in the sediment exposed on an outcrop

Fig. 3. Fig. 11. Earthquake-induced disturbance layer in the sediment exposed on an outcrop

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