

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

Anonymous Referee #2

Received and published: 6 June 2014

The manuscript “Paleoclimate and paleoseismic events discovered from the Diexi barrier lake on the Minjiang River, China” presents a detailed study on paleoclimate and paleoseismic events in the Diexi barrier lake area by testing sediments from the center of the lake. The paleoclimate and paleoenvironment indicators, such as sporopollen, carbon and oxygen isotope, organic matter, calcium carbonate, granularity were tested and analyzed. Based on this, climate and environment evolution as well as seismic events in between 30 000 aBP and 15 000 a BP are outlined for the studied area. The study methods used in the manuscript are rigorous. The presented data are new and reasonable. The findings and conclusions are meaningful and valuable. The language

C1025

is precise and the overall presentation is clear. This reviewer, therefore, recommends the manuscript to be published in NHESS.

However, the following corrections should be addressed by the authors before publication. 1) Page 4, Lines 14 and 16: “Paleo-seismic” should be consistent with “Paleoseismic” in other places. 2) Page 3, Line 9: “reflect” should be “reflects”. 3) Page 6, Lines 6 and 7: “Spore-pollen” should be “Sporo-pollen”. 4) Page 5, Line 2: should be “the North Chinese plate”. 5) Page 5, Line 13: “is” should be “was”. 6) Page 5, Line 24: “were” should be “was”. 7) Page 7, Line 25: “earthquakes” should be “earthquake”. 8) Page 10, Lines 2 and 3: “climate” should be “climates”. 9) Page 9, Line 18: “Segment IV” should be “Segment IX”. 10) Page 11, Lines 6 and 8: “is” should be “was”. 11) Scales are needed for Figs. 4 and 11.

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

C1026