

Interactive comment on “Rn and CO₂ geochemistry of soil gas across the active fault zones in the capital area of China” by X. Han et al.

X. Han et al.

subduction6@hotmail.com

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Dear anonymous referee #2,

Thanks a lot for your valuable comments that improve English and the presentation much of the manuscript. The paper has been thoroughly and carefully revised according to your comments. The reply to each comment is following:

(a) Page 1730, line 5. Thank you very much for this suggestion. We considered carefully and it seems no problem for the using of ‘were’ in the text, so just keep it.

(b) Page 1730, line 15. Thank you very much for this suggestion. The word ‘Soil-gas’ has been changed to ‘Soil gas’.

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(c) Page 1730, line 24. Thank you very much for this suggestion. We considered carefully and it seems no problem for the using of ‘related to seismotectonic activity’ in the text, so just keep it.

(d) Page 1730, line 26. Thank you very much for this suggestion. The phrase ‘soil Rn, He and CO₂ in active and inactive faults in two areas of Italy’ has been changed to ‘Rn, He and CO₂ in soil gases in two Italian areas characterized by different seismotectonic activity’.

(e) Page 1731, lines 6-7. Thank you very much for this suggestion. The phrase ‘located in active tectonic zone’ has been changed to ‘located in the area of active tectonics’.

(f) Page 1731, lines 13-15. Thank you very much for this suggestion. The sentence that ‘The capital area of China (38.7~41.3°N, 114.1~119.9°E) is a densely populated and economically developed region, which consists of Beijing, Tianjin, Zhangjiakou and Tangshan, etc’ has been changed to the sentence that ‘The capital area of China (38.7~41.3°N, 114.1~119.9°E) is a densely populated and economically developed region, which consists of Beijing, Tianjin, Zhangjiakou and Tangshan, etc (Fig. 1)’.

(g) Page 1731, line 17. Thank you very much for this suggestion. The ‘earthquakes’ has been changed to ‘earthquakes’.

(h) Page 1731, line 20. Thank you very much for this suggestion. We considered carefully and it seems no problem for the using of ‘have’ in the text, so just keep it.

(i) Page 1734, lines 22-24. Thank you very much for this suggestion. The sentence ‘Meteorological parameters, such as temperature, atmospheric pressure, wind, precipitation and air moisture, varied slightly between the two times soil gas surveys (Fig. 2)’ has been changed to the sentence that ‘Meteorological parameters in the first soil gas survey were similar to those in the second soil gas survey (Fig. 2)’. The readers can judge this clearly according to Fig. 2.

(j) Page 1737, line 25. Thank you very much for this suggestion. The word ‘Hink’ has

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been changed to 'Hinkle'.

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