

Interactive comment on "Hydrochemical characteristics of the hot spring waters in the Kangding district related to the Lushan M_S 7.0 earthquake in Sichuan, China" by Z. Chen et al.

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I must apologize for responding the comments so late. Comment: Authors report that anomalous geochemical signals occurred before a seismic event. Graphs have been forced to demonstrate the above assumption. Anyway no experimental data were continuously recorded before the shock, thus the identified anomalies could be obviously a consequence of the seismic event and not precursors of it. Anyway data are interesting and deserve to be published. It is suggested to downplay the supposed precursory character of signals modifying graphs and text accordingly.

C3572

Thank you very much for your valuable and instructive comments on the manuscript. The paper has been thoroughly and carefully revised according to your comments. The reply to each comment is as followed:

Actually, the latest data were measured in 2010, and there were no obviously hydrochemical variations before the main shock. However, the hydrochemical anomalies were observed 3-5 days after the main shock, and the amplitudes were obviously, as high as 231.9 mg L-1. Usually, hydrochemical anomalies related to earthquake can last for one month after the main shock (Du et al., 2008), such as those related to the Wenchuan ðlŚĂðlŚĘ 8.0 earthquake with the epicenter 300km northeast to that of the Lushan ðlŚĂðlŚĘ 7.0 earthquake (Chen et al., 2014). Therefore, the observed hydrochemical anomalies after the Lushan ðlŚĂðlŚĘ 7.0 earthquake could be the continuous precursory related to the main shock. In addition, 36 aftershocks with ðlŚĂL higher than 4.0 occurred within 5 days after the main shock. Therefore, the aftershocks could have play an important role in producing the hydrochemical anomalies observed after the main shock.

We had made the modification in the text.

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