

# ***Interactive comment on “Analysis of the Geomagnetic Component Z Daily Variation Amplitude Based on the China Geomagnetic Network” by Xudong Zhao et al.***

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Thank you for your kind comments. 1. The author will rejust Figure 13 in 3 rows and 3 columns to show the comparison more clear. 2. The geomagnetic field from the earth interacts with neutral wind in the ionosphere producing the electric field of ionospheric generator. The combination of this electric field and the conductivity in the ionosphere makes effects to the Sq current system. The geomagnetic field is mainly from the main field of the earth. The period of the main field could range from about thirty years to ten thousand years. It has little change in about twelve years. On the other hand, the main field in the local region which the stations distribute is almost the same. The effect of

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the geomagnetic field could be ignored. And the conductivity and neutral wind in the ionosphere are the major factors influence the Sq current system. These supplements will be added in the updated manuscript.

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