

# ***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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This article uses twelve years data from the Geomagnetic Network of China to analyse the daily variation amplitude of Z. The idea of this manuscript is original. And it may provide some background information to researchers who use the daily variation amplitude of geomagnetic component Z. The comments below may be helpful to improve the quality for publication. 1. Figure 13 maybe need to be reshaped, for example, each column represents every seasonal months and each row represents every comparison pair of stations. This distribution of figure could make the comparison more evident. 2. Line 270 which mentioned “The changes of conductivity and neutral wind in the iono-

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sphere are closely related to solar, and they mainly control the intensity and structure distribution of Sq current system." should also include the contribution of the geomagnetic field. The geomagnetic field interacts with neutral wind producing the electric field of ionospheric generator. The geomagnetic field maybe need to add some discussion to illustrate whether it has effect in this study. The manuscript is well written and the results are reasonable. I would hope this article will be published in this journal.

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