



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

Anonymous Referee #1

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This paper investigated the daily variation amplitude of geomagnetic component Z from GNC for about a whole solar cycle. Three useful results were obtained: The Z daily variations amplitude in the same season were due to the different ionospheric conductivity in different phases of the solar cycle; The neutral wind could be the main factor for the stronger effect of the Z daily variations amplitude in equinox months; The 12%-41% of the Z daily variations amplitude increase in Yunan Province could be attributed to the complicated underground electrical structures. In general, this paper is well organized and written and the results from this paper are important for the further study of the Sq current structures as well as the underground electrical conductivity. I recommend it to be published in this article.

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<https://doi.org/10.5194/gi-2020-48>, 2020.

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