Thank you for your affirmation and sincere suggestions on our work.

- **Comment:** Some pictures in the article need to be redrawn, such as Figure 2 and Figure 3, try to ensure that there is no Chinese in the pictures.

Reply: Thank for your comment. We will translate all Chinese in Figure 2 and Figure 3 into English in the revised manuscript.

- **Comment:** When analyzing the FTD of restored data, it is not only necessary to give the range of 3δ, but also the corresponding confidence interval.

Reply: PauTa Criterion (3σ Criterion): For a large set of data with a normal or approximate normal distribution, 99.7% of the values are distributed in the \((\mu-3\sigma,\mu+3\sigma)\) interval. The values beyond this interval are generally considered as outliers. In this paper, we used this method combined with the geomagnetic Ap indices to identify outliers in the data. We will further account this issue in the revised version.