Response to referee comments

Manuscript title: Characterization of the South Atlantic Anomaly

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We thank the reviewers and editor for their comments on the manuscript. We have taken into consideration in preparing our revision and made minor amendment/additions of sentences to improve the revised manuscript. All lines and page numbers mentioned are referring to the revised manuscript (Track Changes-Simple Markup).

Revised Submission

(1) Comments from Referees: Page 7, line 5, ‘it can interpret as both that’ should be ‘it can be interpreted…’

(2) Author’s response: We have change it at page 7, line 5.

(3) Author’s changes: If the Hurst exponent is in the range of 0.5<\text{H}<1, it can be interpreted as both that a high value in the series will probably be followed by another high value also that the values a long time into the future will serve to be high.

(1) Comments from Referees: Page 8, line 8, ‘Active period can be define as a day’ should be ‘be defined as…’

(2) Author’s response: We have change it at page 8, line 8.

(3) Author’s changes: Active period can be defined as a day from 1 UT until 24 UT where the existence of the geomagnetic storm is below \(-30\ \text{nT}\).

(1) Comments from Referees: Page 9, line 3, ‘The explanation on choosing 11 March 2011 compare to the other date can be explained more detail by …’ should be ‘compared to the other date can be explained in more detail by…’

(2) Author’s response: We have change it at page 9, line 3.

(3) Author’s changes: The explanation on choosing 11 March 2011 compared to other date can be explained in more detail by referring Fig. 4.

(1) Comments from Referees: Page 10, line 4, ‘The periodogram is on 03 February 2011 station THL’ should be ‘The periodogram is obtained from station THL on 03 February 2011’.

(2) Author’s response: We have change it at page 10, line 7 and line 8.

(3) Author’s changes: The periodogram is obtained from station THL on 03 February 2011.