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<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 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**.