

Interactive comment on “Characterization of gravity waves in the lower ionosphere using VLF observations at Comandante Ferraz Brazilian Antarctic Station” by Emilia Correia et al.

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Answer to Referee#2

We would like to thank Referee#2 for the comments and suggestions. In the following we include our answers point-by-point.

The new texts are in green and replace the old ones marked as strikethrough. Referee Comment: Hence I do not give any major comments except one comment: Authors are totally silent in the manuscript on the geomagnetic condition from solar origin. Please note that activities like solar flares even of the modest C-class are known to change the

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D-region electron density concentration especially during daytime. Did authors considered this aspect in their analysis? It will be of significance to include the geomagnetic condition during the days of analysis presented in manuscript. This comment was considered in Page10, lines 17-24

Minor comments: 1. Page 2, Line 7: which is a great circle path -> with its great circle path Done

2. Page 2, Line 27: In the last decades -> During last decades Done

3. Page 4, Line 18: Earth-ground cavity -> via multiple reflections. Done

4. Page 5, Line 4: It is used the tool developed by Torrence and Compo (1998) and including the rectification -> The tool used is developed by Torrence and Compo (1998) and includes the rectification Done

5. Page 13, Line 1: which is a great circle path -> with its great circle path Done (Page 13, line 5)

Please also note the supplement to this comment:

<https://www.ann-geophys-discuss.net/angeo-2019-123/angeo-2019-123-AC3-supplement.zip>

Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2019-123>, 2019.

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