

Authors Response

Review Report

This manuscript reports a newly established multi-static meteor radar in southern Argentina. The analysis follows the authors' work on other systems. The results are robust and informative. The figures are also well prepared. The analysis of keograms showing the horizontal structure of some waves is novel and provides new information on the spatial structure of the waves.

- 5 **General Reply:** *We thank the reviewer for the assessment of our submitted manuscript and appreciate the feedback. We have updated and clarified the comments. Below, we have provided point-by-point replies to the raised concerns in the attached PDF. The revised manuscript is prepared with latexdiff.*

Minor Comments

There are a few minor technical details to be corrected before this manuscript is ready to be published. They are listed below.

- 10 1. Line 132: Argentina time is UTC-3. 8-12 UT is 5 a.m.- 9 a.m., which is early morning, not 'afternoon hours.' Same error for the 'midnight' and 'evening hours.'

Response: *We have updated the hours accordingly.*

2. Line 193: explain what 'customized normalization' mean.

- 15 **Response:** *We have revised the text "customized normalization" in the revised manuscript. Particularly, the wavelet amplitudes are normalized by a factor to account for the wavelet scale and sampling interval of the wind time series, resulting in amplitudes expressed in physical wind speed units (m/s).*

3. Figures 7, 9, 10: The two black lines are hardly visible. Consider using another color or another way to indicate this period of interest.

Response: *Thank you for this comment. We have changed the colormap and used red to indicate the period of interest.*

- 20 4. Figure 8: The vertical white lines are not explained in the caption.

Response: *We appreciate the reviewers' comment. The vertical white lines represent data gaps, and we have added this to the figure caption.*

5. Figures 10, 11: For plots that are zoomed in to 3 days, several tick marks on the x-axis have the same labels (of the same day). This is not informative. Please use date plus UT hours for each tick mark to differentiate them.

25 **Response:** *We appreciate the reviewers' comment. We have updated the figures, replacing the x-axis labels with the date and the UT hours for each tick mark.*