

Interactive comment on “Whistler waves produced by monochromatic currents in the low nighttime ionosphere” by Vera G. Mizonova and Peter A. Bespalov

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The paper entitled “Whistler waves produced by monochromatic currents in the low nighttime ionosphere” [No.: angeo-2020-51] discusses an important problem concerned with a full-wave approach to find the field of monochromatic whistler waves which are excited and propagating in the low nighttime ionosphere. The source current is located in the horizontal plane and can have arbitrary distribution over horizontal coordinates. The ground-based horizontal magnetic field and electric field at large altitudes are calculated. The character of wave polarization on the ground surface is investigated. The percentages of source energy supplied by the Earth-ionosphere

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waveguide and carried upward ionosphere are estimated. Received results are important for the analysis of ELF/VLF emission phenomena observed both on the satellites and on the ground.

We prepared a revised version of our paper. The reply contains author’s response, marked and clean versions of the paper. The issues raised by referee have been fully addressed in the revised version and in the response, and we thus hope that the paper will now be considered acceptable for publication.

With respect, on behalf of all co-authors Peter A Bespalov IAP, Nizhny Novgorod, Russia 12 October 2020

Please also note the supplement to this comment:

<https://angeo.copernicus.org/preprints/angeo-2020-51/angeo-2020-51-AC2-supplement.pdf>

Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2020-51>, 2020.

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