

Interactive comment on “The Tropical Tropopause Inversion Layer” by R. Pilch Kedzierski et al.

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Dear editor Peter Haynes,

We thank the referees for the helpful comments which helped to improve the manuscript significantly. We are particularly grateful for the suggestions about the hydrostatic adjustment mechanism, which clarifies our results in section 3.2. Also, we included a new section 4.3 to discuss how much of the TIL is left without the equatorial wave signal, other mechanisms that could enhance the remaining TIL, and the forcing of the secondary N₂ maximum. We find that this new subsection puts our results in a better context and makes the paper rounder as a whole.

Please find the revised manuscript with highlighted changes in the supplement, and the point-by-point responses to the referees comments as individual replies. We hope the new version of the manuscript fulfills the referees' requests.

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Yours sincerely,

Robin Pilch Kedzierski, Katja Matthes, Karl Bumke

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/acp-2016-178/acp-2016-178-AC4-supplement.pdf>

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-178, 2016.

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