

Weather Clim. Dynam. Discuss., referee comment RC2  
<https://doi.org/10.5194/wcd-2020-63-RC2>, 2021  
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## Reply on CC1

Darryn Waugh (Referee)

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Referee comment on "The wave geometry of final stratospheric warming events" by Amy H. Butler and Daniela I. V. Domeisen, Weather Clim. Dynam. Discuss.,  
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Nice analysis Nick.

I too was surprised by the temporal variation in fig 1c - not only the lack of a strong trend but also lack of a pause or even reversal of trends around 2000. Your plot using Black and McDaniel data looks much more what I was expecting, and appears to show a similar reversal in trends around 2000 as in ozone and tropospheric circulation metrics (see fig 1 of Banerjee et al 2020).

I agree that the paper would be improved if it included some discussion of their method compared to metrics used in previous studies.