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Atmospheric Chemistry and Physics Discussions

# *Interactive comment on* "Local and Remote Response of Ozone to Arctic Stratospheric Circulation Extremes" *by* Hao-Jhe Hong and Thomas Reichler

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Dear reviewers,

We also apply the following changes in the revised manuscript to better describe the work of Lubis et al. (2017):

L355-358: "We also did not explicitly consider so-called Downward planetary Wave Coupling events (DWCs) (Lubis et al., 2017), relatively short-lived events (< 10 days) associated with increases in ozone before and decreases during the event, leading to a relatively small net response. Our VI events also need to be distinguished from



so-called reflective winters, introduced by Shaw and Perlwitz (2013) and discussed by Lubis et al. (2017) to indicate winters in which wave reflection dominates. Although defined in different ways, there is some overlap between years with VIs and reflective winters and they are both associated with negative anomalies in wave driving and ozone."

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