

Interactive comment on “Interannual variability of the stratospheric wave driving during northern winter” by A. J. Haklander et al.

Anonymous Referee #1

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In Christiansen 1999 the the transient wave forcing at 100 hPa is indeed small for the experiments with constant troposphere. But that is exactly what is to be expected with a constant troposphere. My point is (and that is what is shown in Christiansen 1999) that even with no transient waves in the troposphere there can be a lot of transient wave activity in the stratosphere. In the real atmosphere the effect of the stratospheric instability could easily be communicated downward into the troposphere.

You can simply not assume that wave-activity always propagates upward and that the source of waves at one vertical level should be found at levels below.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 65, 2007.

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Interactive Discussion

Discussion Paper