

Interactive comment on “Large differences in the diabatic heat budget of the tropical UTLS in reanalyses” by J. S. Wright and S. Fueglistaler

Anonymous Referee #1

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This paper compares diabatic heating rates from 5 different (re)analysis data sets and interprets those differences in terms of their dynamical consequences, particularly those involving mass transport through the tropical tropopause layer. It is the insightful interpretation that makes this paper worth publishing in a scientific journal. The paper is concise, covers issues pertinent to current research topics, and is well written. As with any work, this paper will benefit from a careful editing by the authors before publishing, but no alterations are asked for here.

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 8805, 2013.