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Supplement of

The boundary of nighttime ozone chemical equilibrium as an indicator of local chemistry disturbances in the polar mesopause region

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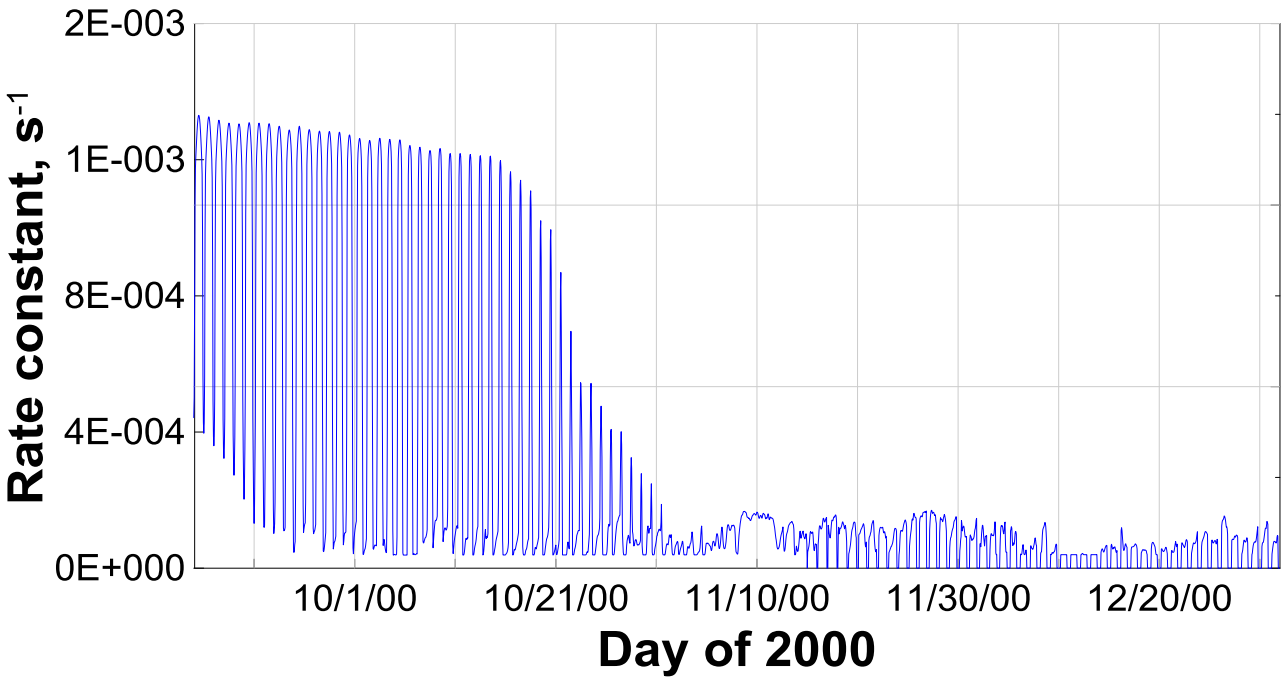


Figure S1. Time evolution of the ozone photodissociation rate constant (O_3+hv → O+O_2) at 82.42°N and an altitude of 75 km at the end of 2000, simulated by the WACCM-X model.

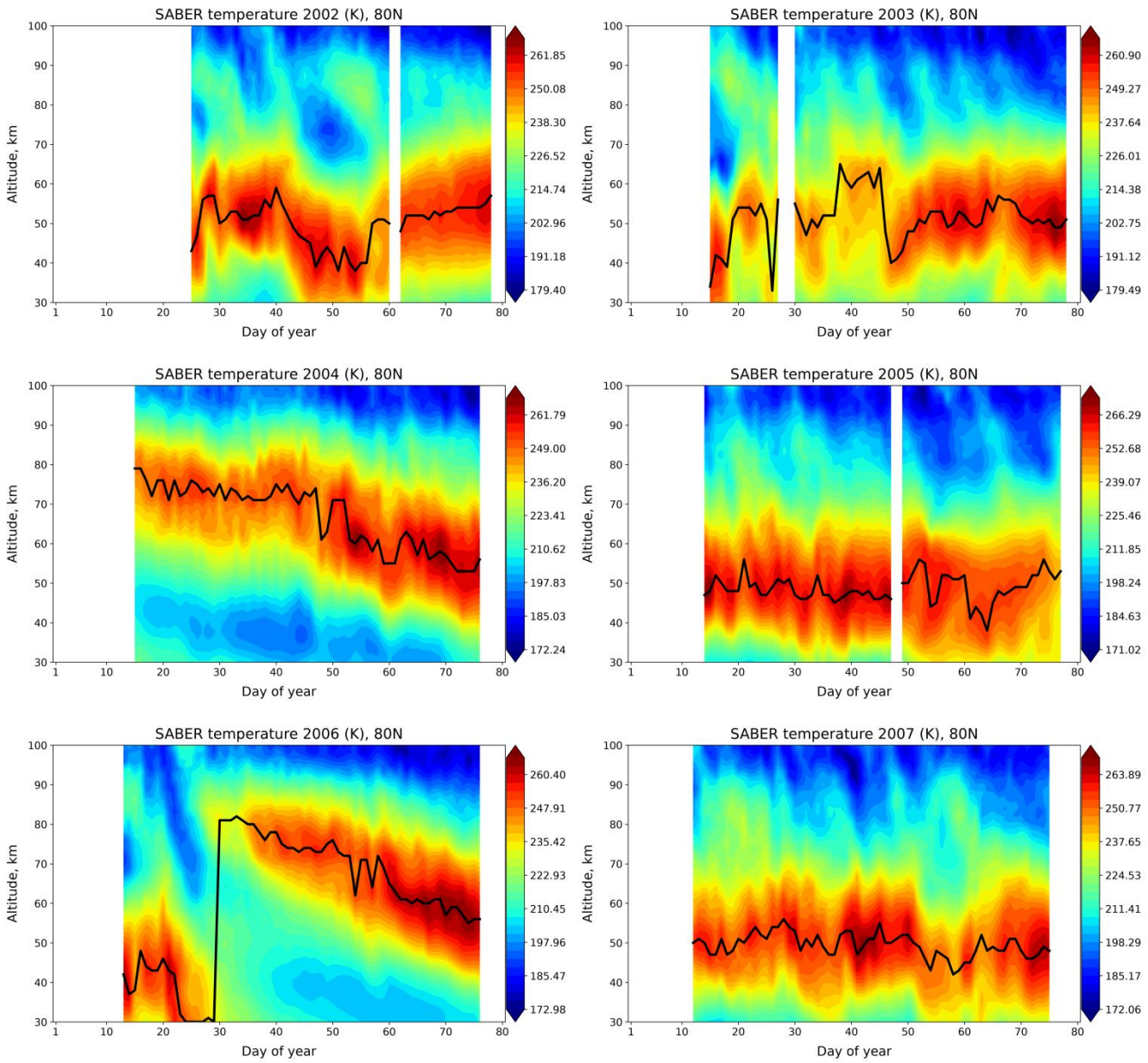


Figure S2. Time evolution of the daily zonal mean temperature profile at 80°N in 2002-2007, obtained from SABER data.

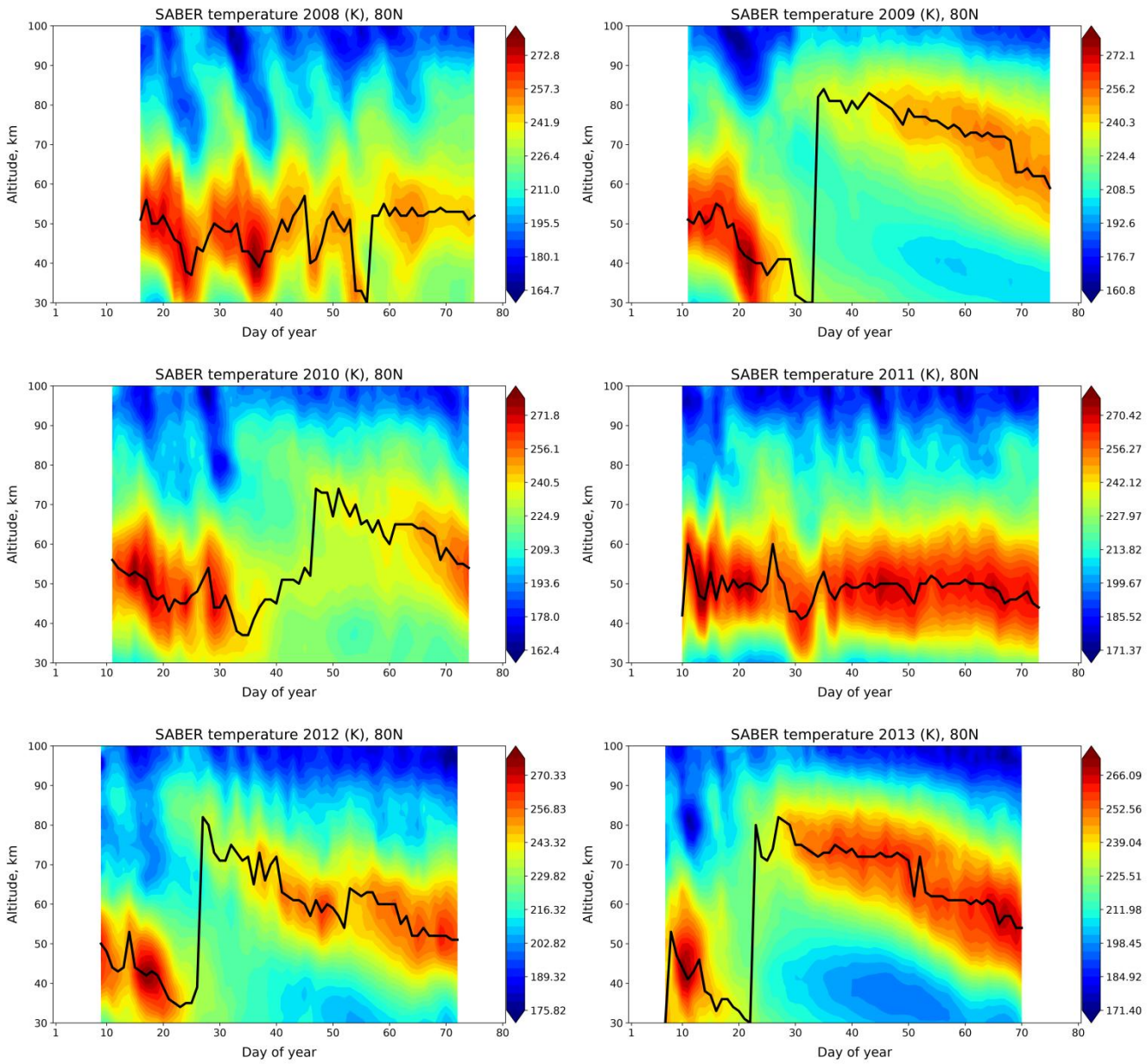


Figure S3. Time evolution of the daily zonal mean temperature profile at 80°N in 2008-2013, obtained from SABER data.

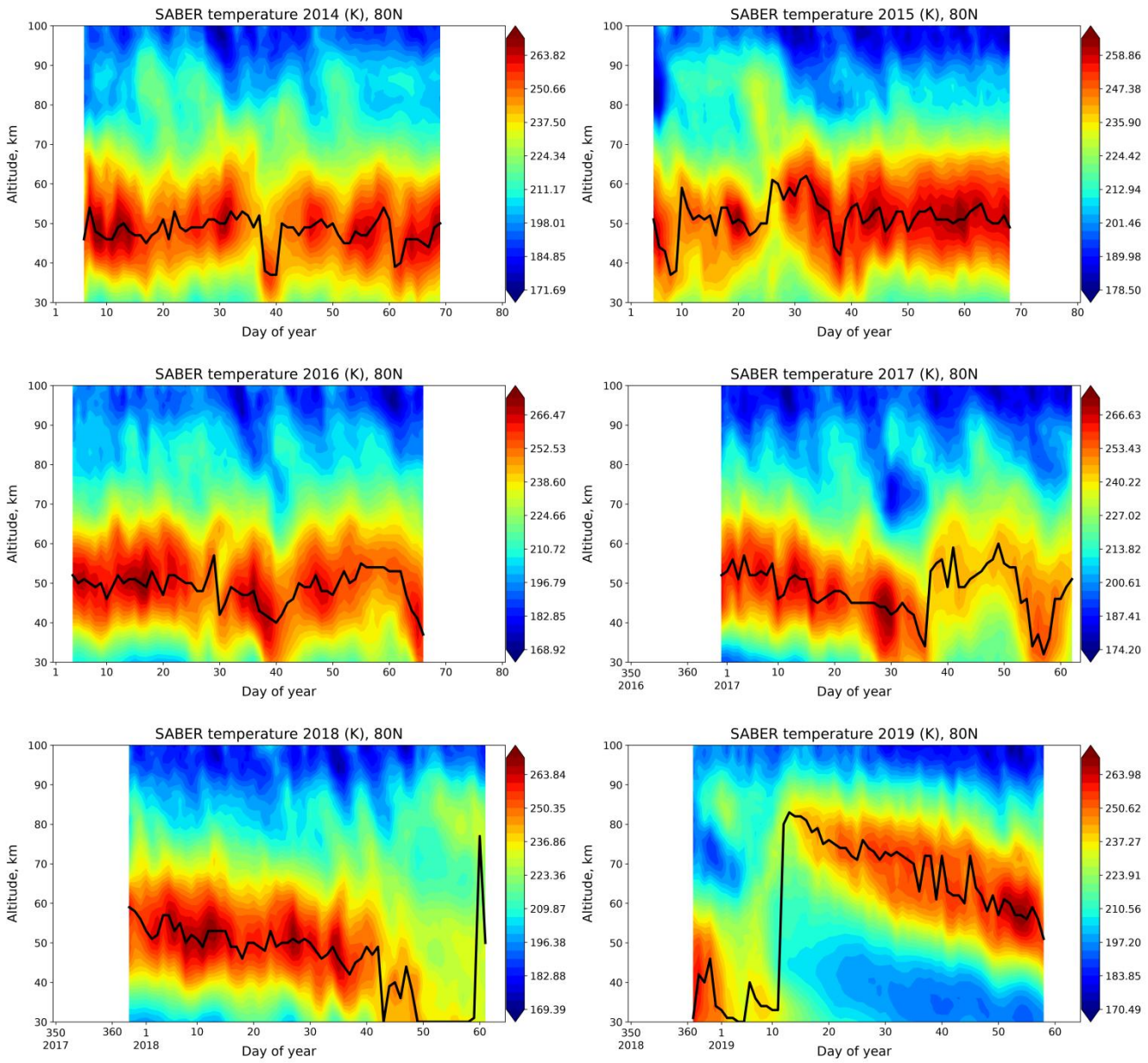


Figure S4. Time evolution of the daily zonal mean temperature profile at 80°N in 2014-2019, obtained from SABER data.

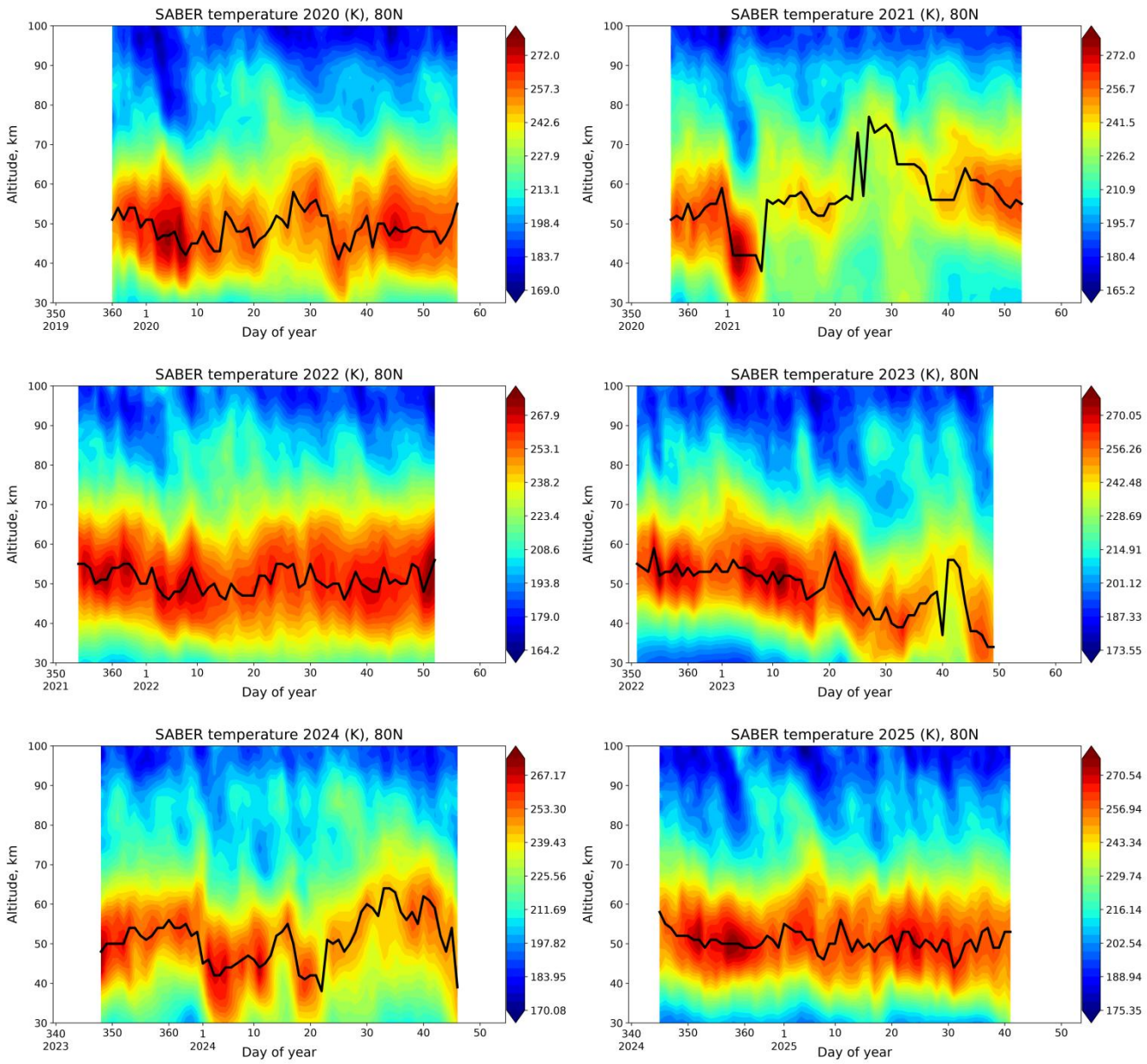


Figure S5. Time evolution of the daily zonal mean temperature profile at 80°N in 2020-2025, obtained from SABER data.