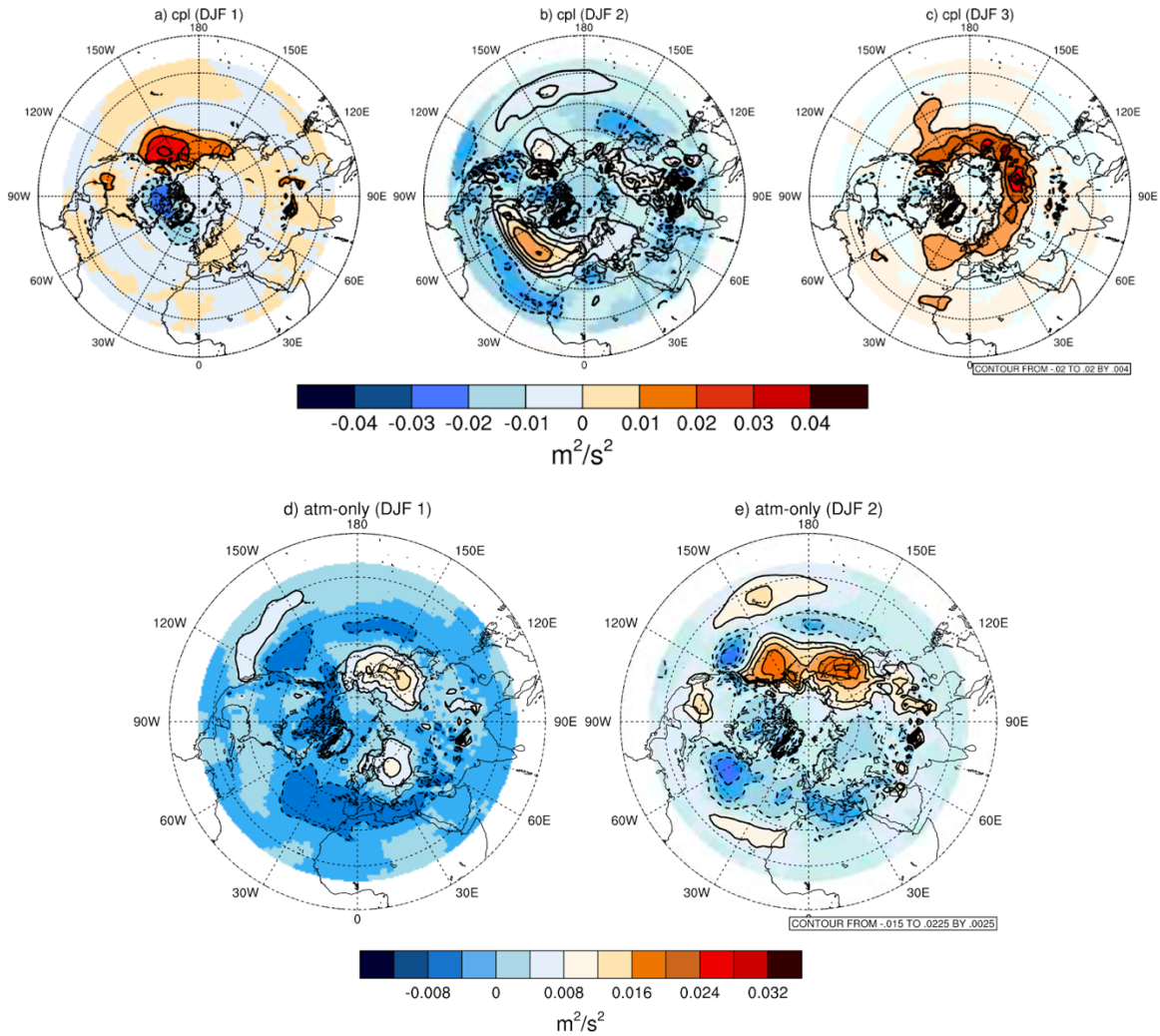
Supplementary Figure for the manuscript *Long-lasting high-latitude volcanic eruptions as a trigger for sudden stratospheric warmings: An idealized model experiment* by Guðlaugsdóttir, Peings, Zanchettin and Magnusdottir, submitted to Atmospheric Chemistry and Physics on the 10th of May 2024.

Supplementary Figure S1: a-c) Coupled and d-e) atm-only vertical wave activity flux (Plumb flux) at 150 hPa for winters 1-3 and 1-2, respectively. Contours indicate 95% significance according to a student's t-test.