Figure S1. The yearly mean 25°S-25°N SMAX-SMIN difference in the rate of ozone loss [ppb/day] through the O\textsubscript{x} (a), NO\textsubscript{x} (b), ClO\textsubscript{x} (c) and HO\textsubscript{x} (d) cycles in the three pairs of integrations. The rates of ozone loss were calculated using the diagnostics framework described in Lee et al. (2002).
Figure S2. Seasonal mean (left: JJA and right: SON) zonal mean SWHR change [K day$^{-1}$] between SMAX and SMIN for INTERO3 (black), PHOT-ONLY (blue), RAD-ONLY (red), and PHOT-ONLY + RAD-ONLY (green). (a-b) are for the 0-60$^\circ$S mean, and (c-d) are for the 60$^\circ$S-90$^\circ$S mean.
Figure S3. Monthly mean 45°S-75°S change in the vertical component of the Eliassen Palm flux (Andrews et al., 1987) \([10^3 \text{ kgs}^{-2}]\) between SMAX and SMIN for (a) RAD-ONLY, (b) PHOT-ONLY, and (c) INTERO3. Thick white and grey lines indicate statistical significance on the 90% and 95% level, respectively. Note the extra contours at ±0.2×10^3 kgs^{-2}. 
Figure S4. As in Fig. S3 but for the scaled Eliassen Palm flux divergence change (Andrews et al., 1987) [ms$^{-1}$ day$^{-1}$].