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Supplement of

Role of vertical and horizontal mixing in the tape recorder signal near the tropical tropopause

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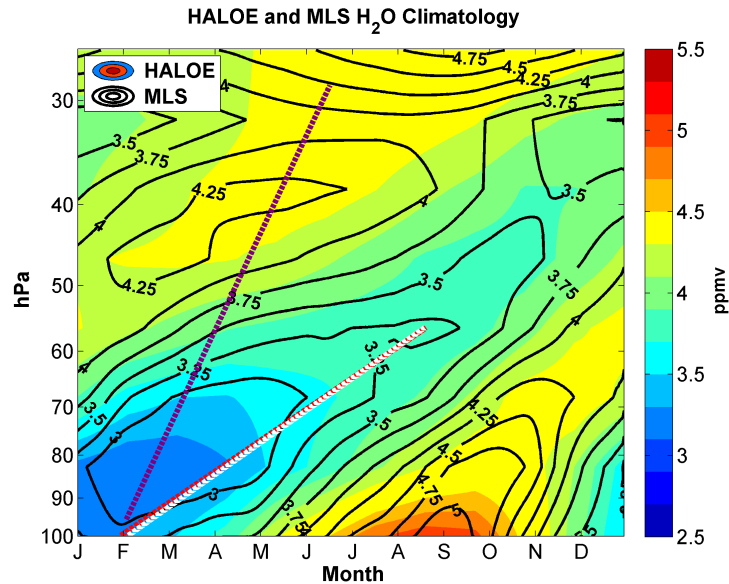


Figure S1. Complementary to Figure 2 in main paper: Climatological zonal-mean tropical (10°S – 10°N) tape recorder signal (water vapor mixing ratio in ppmv) comparing HALOE (colors) with MLS (black contours). The dotted lines roughly indicate the evolution of the dry minima with time for MLS (red), HALOE (white), and ERA-i (purple, for reference).

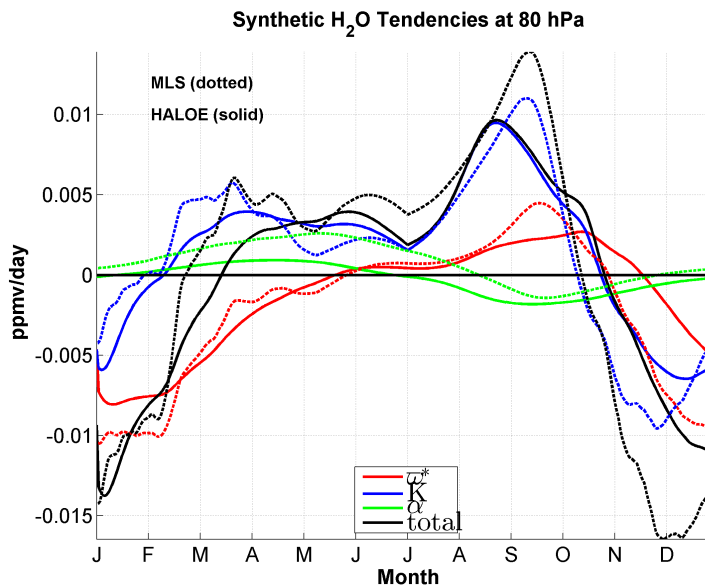


Figure S2. Complementary to Figure 7 in main paper: Contributions to the water vapor tendency (ppmv/day) at 80 hPa from the best synthetic 1-d transport model solutions (corresponding to the white stars in Fig. 5 of main paper), comparing MLS (dotted) with HALOE (solid).