



Supplement of

A process-oriented evaluation of CAMS reanalysis ozone during tropopause folds over Europe for the period 2003–2018

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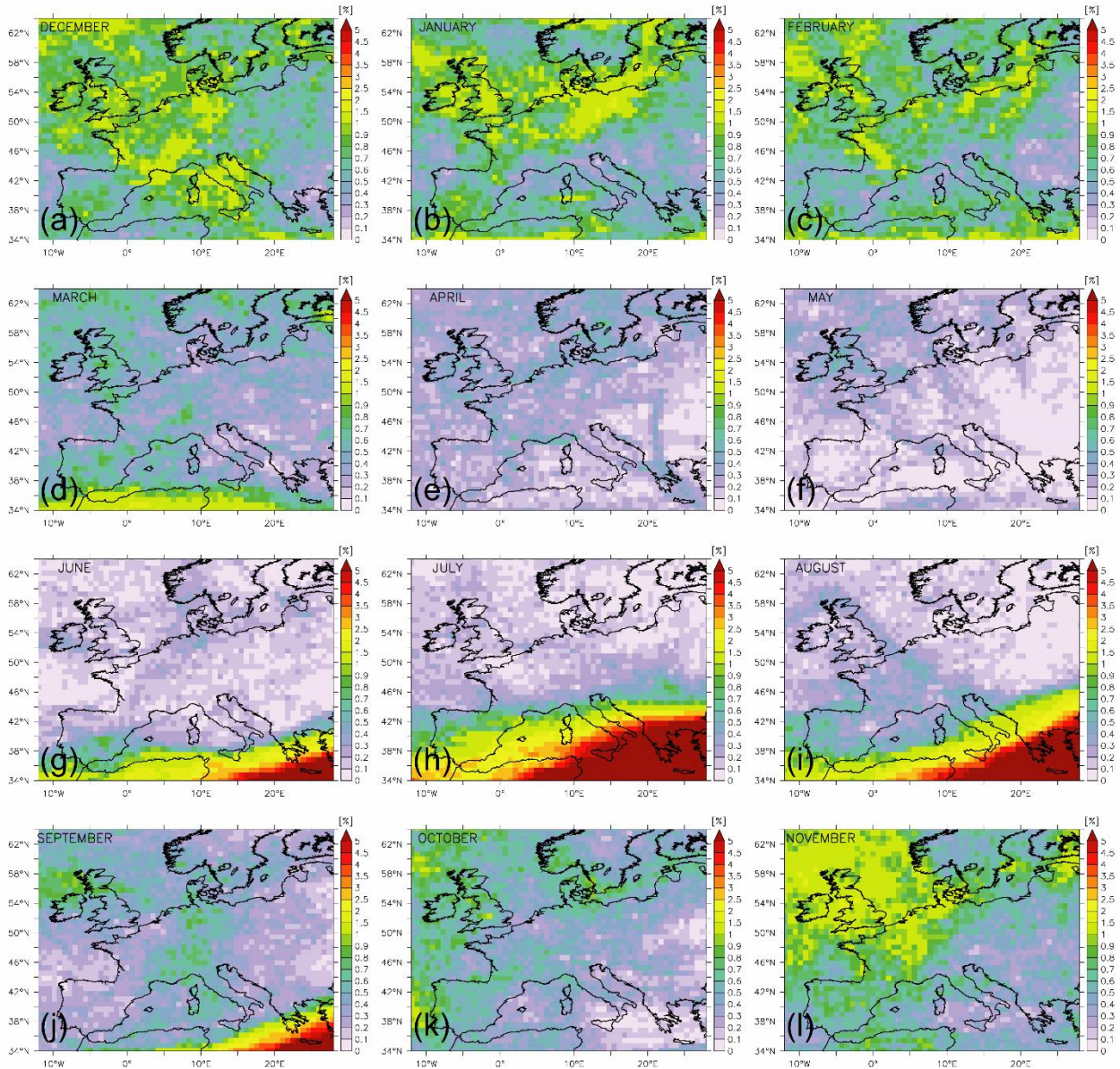


Figure S1. CAMSRA monthly mean tropopause folds (with $\Delta p \geq 50$ hPa) frequency (%) over Europe for a) December, b) January, c) February, d) March, e) April, f) May, g) June, h) July, i) August, j) September, k) October, and l) November over the period 2003-2018.

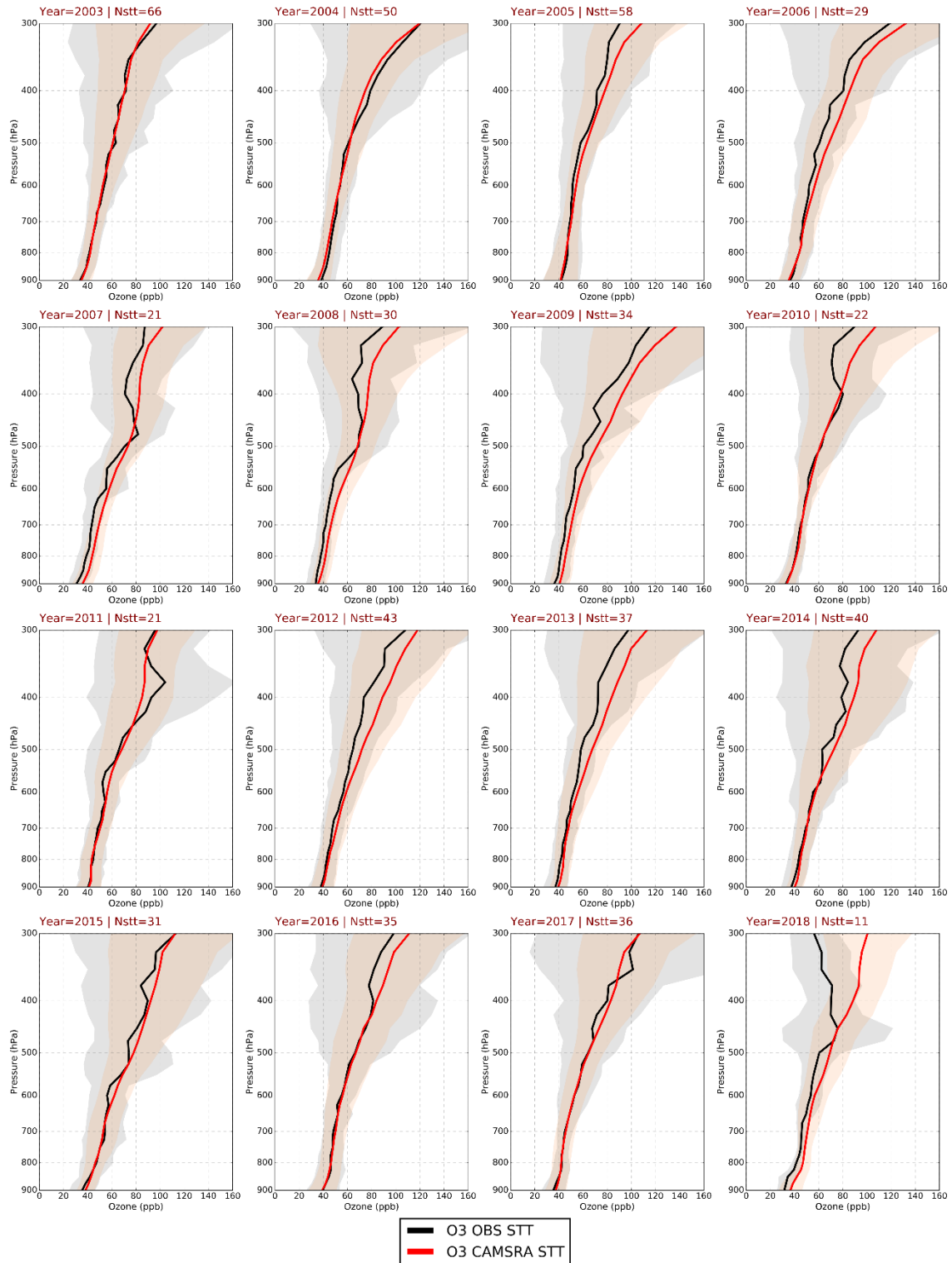


Figure S2. Vertical profiles of observed (black) and CAMSRA (red) ozone concentrations (ppb) averaged over all examined WOUDC and IAGOS sites during STT events for each year of the period 2003-2018. The grey and sandybrown shaded areas depict the \pm one standard deviation of ozone vertical profiles during STT events in observations and CAMSRA, respectively.

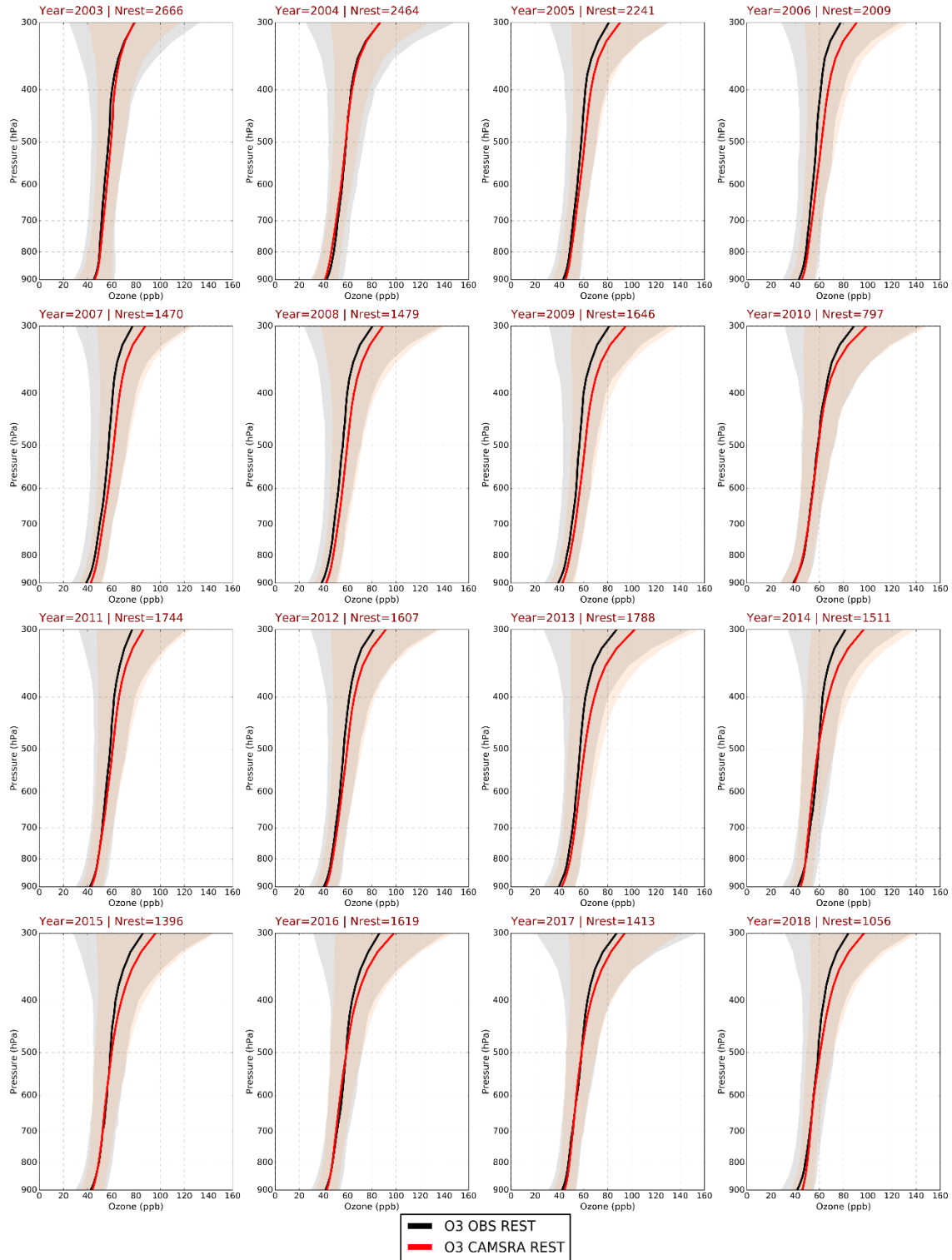


Figure S3. Vertical profiles of observed (black) and CAMSRA (red) ozone concentrations (ppb) averaged over all examined WOUDC and IAGOS sites during the rest of events (no STT) for each year of the period 2003-2018. The grey and sandybrown shaded areas depict the \pm one standard deviation of ozone vertical profiles during the rest of events in observations and CAMSRA, respectively.