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*Supplement of*

## **Large-scale tropospheric transport in the Chemistry–Climate Model Initiative (CCMI) simulations**

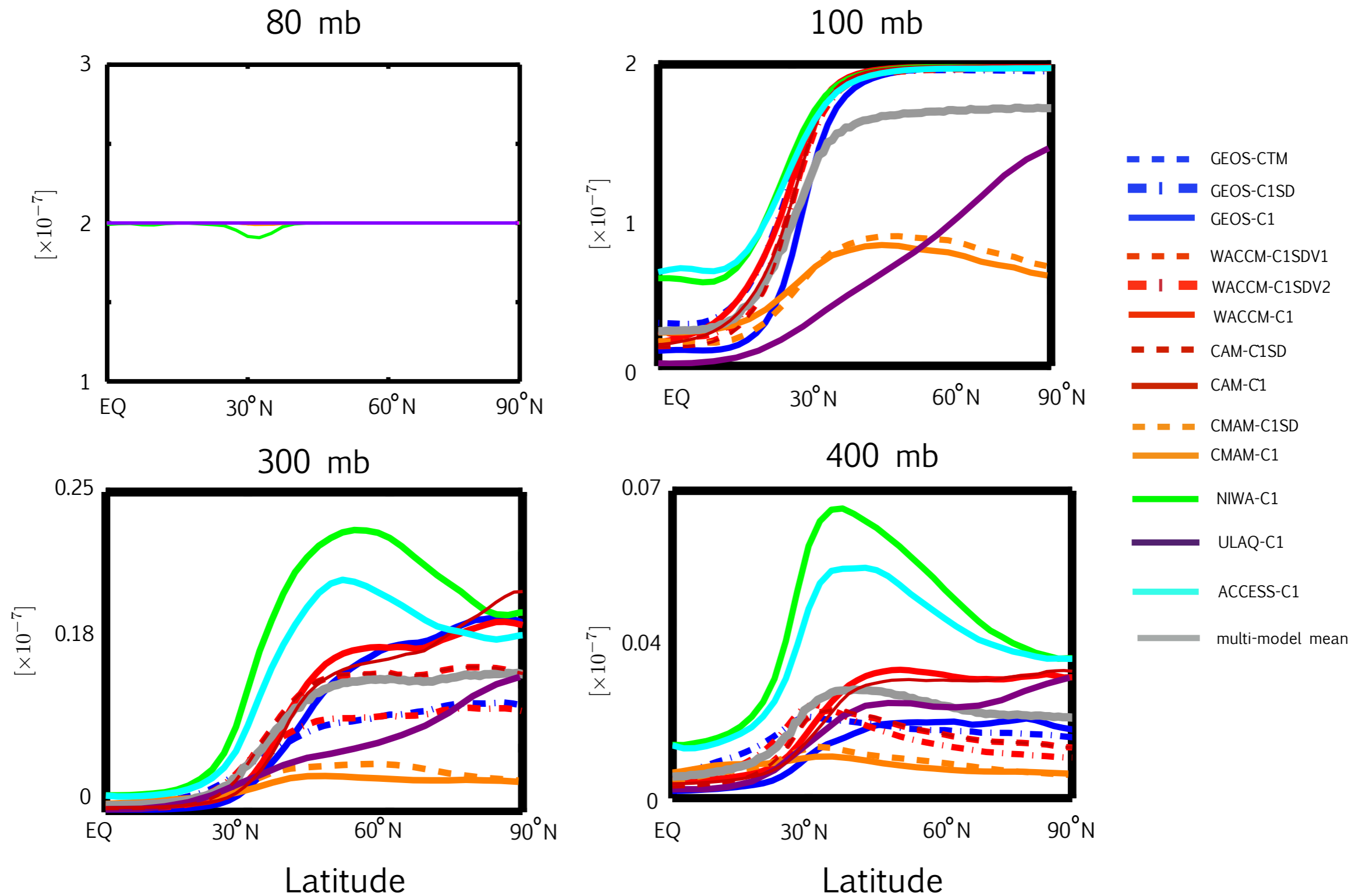
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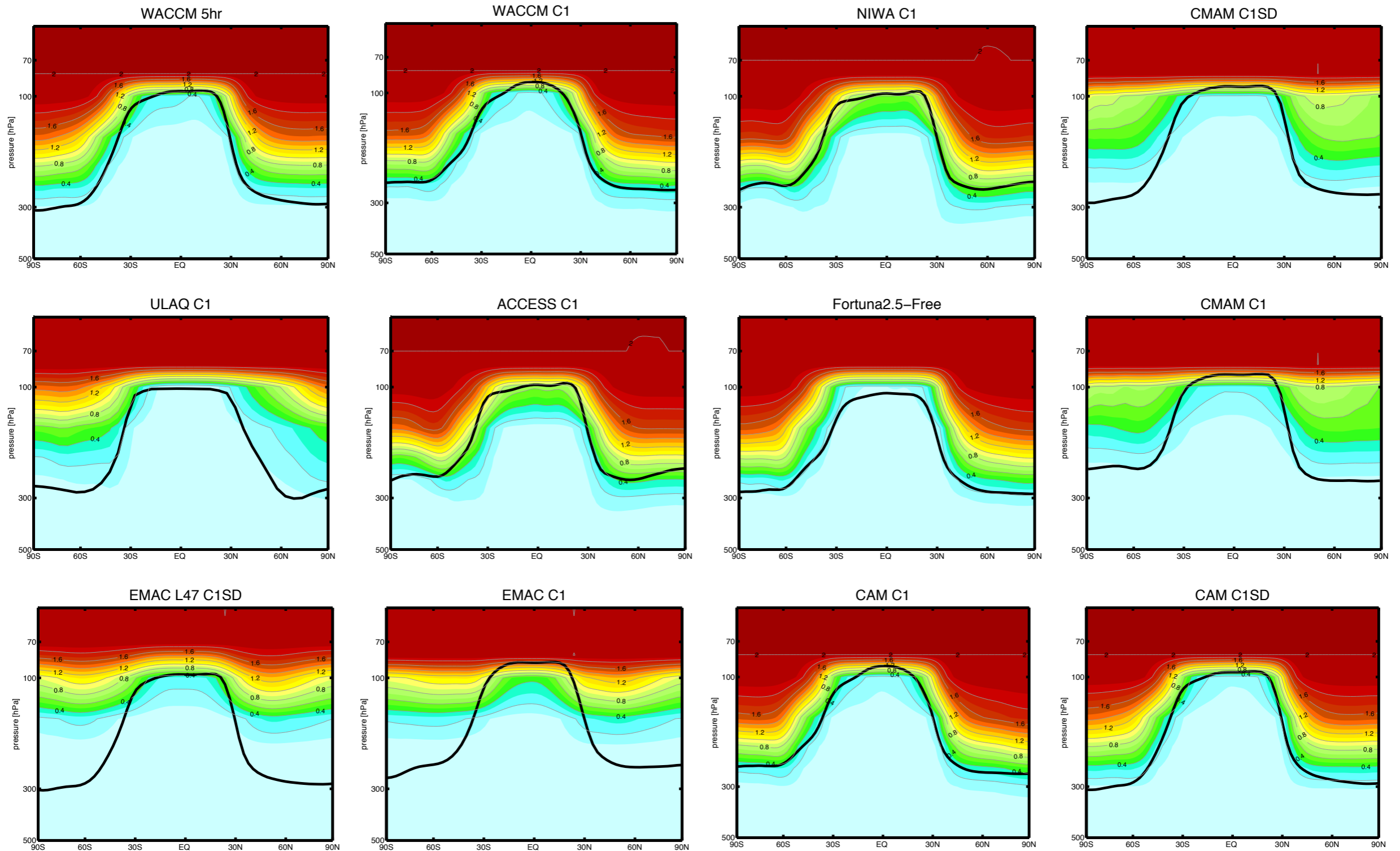
# S1

## Stratospheric Loss Tracer $\overline{\chi}_{STE}^{DJF}$



# S2

## DJF Climatological Mean Stratospheric Source Loss Tracer $\overline{\chi}_{STE}^{DJF}$



thick black line: thermal tropopause

color contours: units of 100 ppb

# S3

## DJF (Top) and JJA (Bottom) Pressure Velocity ( $\omega$ ) Profiles over NH Midlatitudes

