Complete figures set

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Model-observation comparison

Acetic acid \((CH_3C(O)OH)\)

Vertical profiles of \(CH_3C(O)OH\) (in pmol/mol) for PEM-Tropic-A campaign from Emmons et al. (2000). Asterisks and boxes represent the average and the standard deviation (with respect to space and time) of the measurements in the region, respectively. The simulated average is indicated by the solid line and the corresponding simulated standard deviation with respect to time and space by the dashed lines. On the right axis the numbers of measurements are listed. The red lines represent results from simulation \(SR1\), the blue lines from simulation \(SR2\) and the magenta lines from simulation \(S1\). Note that no real differences are present between model results from simulation \(SR1\) and simulation \(SR2\).
Nitrogen Oxyde \((NO)\)

Vertical profiles of \(NO\) (in pmol/mol) for PEM-Tropic-A campaign from Emmons et al. (2000). Asterisks and boxes represent the average and the standard deviation (with respect to space and time) of the measurements in the region, respectively. The simulated average is indicated by the solid line and the corresponding simulated standard deviation with respect to time and space by the dashed lines. On the right axis the numbers of measurements are listed. The red lines represent results from simulation \(SR1\), the blue lines from simulation \(SR2\) and the magenta lines from simulation \(S1\).
Peroxyacyl nitrates (PAN)

Vertical profiles of PAN (in pmol/mol) for PEM-Tropic-A campaign from Emmons et al. (2000). Asterisks and boxes represent the average and the standard deviation (with respect to space and time) of the measurements in the region, respectively. The simulated average is indicated by the solid line and the corresponding simulated standard deviation with respect to time and space by the dashed lines. On the right axis the numbers of measurements are listed. The red lines represent results from simulation SR1, the blue lines from simulation SR2 and the magenta lines from simulation S1.
References