



## Supplement of

## **Revision of the convective transport module CVTRANS 2.4 in the EMAC atmospheric chemistry–climate model**

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Figure 1: Horizontal distribution of the decaying scalar with a lifetime of 1 day, averaged over 2001. The upper row shows the distributions averaged at 700 hPa for numerical experiments (a) ORG and (b) I001. Likewise, the middle row shows the distribution averaged in the lowest grid cell for numerical experiments (c) ORG and (d) I001. In the lower row, the (e) absolute and (f) relative difference of I001 with respect to ORG is shown at the 700 hPa level.



Figure 2: Horizontal distribution of the decaying scalar with a lifetime of 1 day, averaged over 2001. The upper row shows the distributions averaged at 700 hPa for numerical experiments (a) I050A and (b) CC. Likewise, the middle row shows the distribution averaged in the lowest grid cell for numerical experiments (c) I050A and (d) CC. In the lower row, the (e) absolute and (f) relative difference of CC with respect to I050A is shown at the 700 hPa level.