

Electronic supplement of the article
 “Simulating organic species with the global atmospheric chemistry general circulation model
 ECHAM5/MESSy1: a comparison of model results with observations”

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tracer	anthropogenic emission	biofuel emission	biomass burning	biogenic emission	total emission
CO	281.70	250.43	452.36	112.58	1097.10
C ₂ H ₄	3.90	5.11	4.84	12.55	26.40
C ₂ H ₆	6.26	2.91	2.76	0.56	12.49
C ₃ H ₆	1.98	2.28	2.16	3.53	9.94
C ₃ H ₈	9.87	0.91	0.86	0.36	11.99
C ₄ H ₁₀	72.51	1.16	1.10	0.41	75.18
MEK	4.22	4.42	4.19	0.0	12.83
CH ₃ CHO	0.00	2.04	1.93	0.00	3.96
CH ₃ COCH ₃	3.13	1.85	1.76	41.29	48.03
CH ₃ COOH	0.00	6.52	6.18	3.51	16.21
CH ₃ OH	3.13	6.58	6.24	61.89	77.84
HCHO	0.98	3.50	3.31	0.00	7.79
HCOOH	0.00	3.56	3.37	5.78	12.71
ISOPRENE	0.00	0.00	0.00	346.03-385.35	346.03-385.35
SO ₂	146.51	3.09	2.60	0.00	152.19
DMS	0.00	0.00	0.00	29.20-31.14	29.20-31.14
NH ₃	0.00	0.00	0.00	67.21	67.21
NO _x	31.39	2.48	9.28	6.77-7.00	49.92-50.15

Table 1: Yearly integrated emissions of different trace gases in the E5/M1 evaluation simulation *S1*. The units are in Tg(gas)/yr (with the exception of NO_x emissions, in Tg(N)/yr). In bold are the emissions calculated on-line (maximum and minimum).