Precursor [ug/m3] - 1 0.03 -0.29 0.01 \(\text{D}.005 \) 0.08 \(\text{D}.008 \) 0.08 \(\text{D}.008 \) 0.03 \(\text{D}.021 \) 0.03 \(\text{D}.029 \) 0.14 \(\text{D}.021 \) 0.05 \(\text{D}.008 \) 0.08 \(\text{D}.008 \) 0.08 \(\text{D}.002 \) 0.08 \(\text{D}.002 \) 0.04 \(\text{D}.002 \) 0.04 \(\text{D}.002 \) 0.04 \(\text{D}.002 \) 0.04 \(\text{D}.001 \) 0.05 \(\text{D}.001 \) 0.05 \(\text{D}.008 \) 0.06 \(\text{D}.001 \) 0.05 \(\text{D}.001 \) 0.05 \(\text{D}.008 \) 0.06 \(\text{D}.001 \) 0.05 \(\text{D}.001 \) 0.06 \(\text{D}.001 \) 0.05 \(\text{D}.001 Temperature [K] -0.03 1 0.0240.140.0880.0010.0190.0220.0340.0220.0340.0220.0580.160.0860.29 0.22 0.71 0.0470.18 -0.5 -0.44 0.12 0.170.0490.0940.120.0150.0580.34-0.31 -0.6 -0.36-0.33-0.27-0.140.003 OH [molec/cm3] -0.290.024 1 0.0010500727.2e-1060580.0440.0570.0860.0510.0860.00470.0660.0420.0730.0150.490.0760.11 0.15 0.17 0.2 0.27 0.2 0.18 0.14 0.14 0.130.0730.0730.079-0.050.0220.0330.028 O3 [molec/cm3] -0.0120.140.001 1 0.19.7e-16.024.0040.029.0760.0570.069.0360.110.0320.0660.27 -0.11 0.38 0.31-0.0430.0350.0620.14 0.0720.0240.07 0.25 0.110.0640.110.063 0.1 0.026.002 NOx [molec/cm3] -0.0059.088.00770.19 1 .00040.0350.0350.0350.0450.0160.06-0.110.0450.280.0360.15 0.18 -0.11 0.15 0.16-0.06-0.0890.11-0.04-0.14-0.12-0.11 0.22-0.0730.0360.0120.0280.01-30.00606002 SZA [degree] -0.0860.0012.2e-11.6fe-1060004 1 0.0120.0120.0140.0220.019.00860.03-0.030.0240.0360.0490.0520.0620.0530090.40007.800960012400275.00270.010.0190.0150.0220.0170.0140.00784001858e-1 Gas [ug/m3] Bin01: $lg(C^*) = -6.5 - 0.0083.019.0580.0240.0350.012$ 1 0.72 0.64 0.43 0.78 0.49 0.26 0.1 0.43 0.0130.120.0410.0680.0320.16 0.16 0.130.0650.0610.0410.0091.0480.0240.0540.0250.0250.0250.0180.00930.05 Gas [ug/m3] Bin04: $lg(C^*) = -3.5 - 0.03 \pm 0.02 \pm 0.03 \pm 0.02 \pm 0.086 \pm 0.076 \pm 0.016 \pm 0.02 \pm 0.43 \pm 0.61 \pm 0.74 \pm 1 \pm 0.45 \pm 0.31 \pm 0.39 \pm 0.47 \pm 0.46 \pm 0.099 \pm 0.32 \pm 0.08 \pm 0.26 \pm 0.2 \pm 0.0660.13 \pm 0.13 \pm 0.14 \pm 0.028 \pm 0.07 \pm 0.046 \pm 0.085 \pm 0.073 \pm 0.14 \pm 0.028 \pm 0.073 \pm 0.085 \pm 0.073 \pm 0.085 \pm 0.073 \pm 0.085 \pm 0.085$ Gas [ug/m3] Bin05: $lg(C^*) = -2.5 - 0.0210.0580.0510.0570.060.01$ 0.78 0.64 0.58 0.45 1 0.57 0.41 0.16 0.58 0.0520.180.0890.090.0570.19 0.190.0930.050.0940.0290.0110.0860.0280.0840.0430.0390.0340.0160.080 Gas [ug/m3] Bin08: $lg(C^*) = 0.5 - 0.03$ 0.29 0.0660.11 0.28 -0.03 0.1 0.28 0.29 0.47 0.16 0.11 0.42 1 0.5 0.31 0.39 0.24 0.23 0.240.0079.0490.0310.078-0.060.0930.0360.0940.16-0.28-0.14-0.120.0940.0490.17 Gas [ug/m3] Bin09: $lg(C^*) = 1.5 - 0.0630.220.0420.0320.0360.0240.43 0.5 0.48 0.46 0.58 0.62 0.68 0.5 1 0.17 0.45 0.13 0.2 0.18 0.28 0.38 0.29 0.27 0.29 0.0830.15 0.0880.0480.24 0.12 0.11 0.0870.0440.14$ Gas [ug/m3] Bin11: $lg(C^*) = 3.5 - 0.0640.0470.0150.27$ 0.18 0.04 0.12 0.18 0.24 0.32 0.18 0.32 0.25 0.39 0.45 0.047 0.047 1 0.064 0.57 0.4 0.34 0.43 0.43 0.43 0.37 0.46 0.39 0.33 0.3 0.17 0.09 0.0630.14 0.11 0.065 0.11 Gas [ug/m3] Bin12: $lg(C^*) = 4.5 - 0.0420.18 - 0.49 - 0.11 - 0.110.0520.0410.030.0440.080.0890.0780.0680.24 0.13 0.1 0.064 1 0.160.0530.0820.11 - 0.12 - 0.220.0770.140.0820.14 - 0.13 - 0.13 - 0.12 - 0.15 - 0.0420.18 - 0.14 - 0.13 - 0.14 - 0.15 -$ Gas [ug/m3] Bin13: $lg(C^*) = 5.5 - 0.022 - 0.5 - 0.0760.38$ 0.15-0.06 \rlap{D} .0680.12 0.2 0.26 0.09-0.0110.15 0.23 0.2 -0.4 0.57 0.16 1 0.82 -0.070.06 \rlap{D} .070.06 \rlap{D} .085.05 \rlap{D} .00560.0560.15 0.53 0.28 0.26 0.21 0.13 0.130.0370.013 Gas [ug/m3] Bin14: $lg(C^*) = 6.5 - 0.44 - 0.44 - 0.11 = 0.31 = 0.16 - 0.05 = 0.032 = 0.0860.14 = 0.2 = 0.057 - 0.11 = 0.16 = 0.044 = 0.44 = 0.44 = 0.44 = 0.44 = 0.13 - 0.13 - 0.140 = 0.044$ erosol [ug_m3] Bin02: $lg(C^*) = -5.5 - 0.11 = 0.17 = 0.17 = 0.17 = 0.03 \pm 0.0$ erosol [ug_m3] Bin03: $lg(C^*) = -4.5 - 0.130.049 \ 0.2 \ 0.062 - 0.100.0004 \ 0.130.012 \ 0.19 \ 0.130.093 \ 0.4 \ 0.130.031 \ 0.290.008 \ 0.43 - 0.120.0230.048 \ 0.62 \ 0.7 \ 1 \ 0.7 \ 0.71 \ 0.59 \ 0.5 \ 0.0920.037 - 0.140.0720.0570.0310.07 \ 0.0570.0310.090 \ 0.0920.037 - 0.140.0720.0570.0310.090 \ 0.0920.037 - 0.140.0720.0720.0570.0310.090 \ 0.0920.037 - 0.140.0720.0720.0570.0310.090 \ 0.0920.037 - 0.140.0720.0720.0570.0310.090 \ 0.0920.037 - 0.140.0720.0720.0570.0310.090 \ 0.0920.037 - 0.140.0720.0720.0570.0910.090 \ 0.0920.037 - 0.140.0720.0920.0910.0910 \ 0.0920.0910.0910 \ 0.0920.0910 \$ erosol [ug_m3] Bin04: $lg(C^*) = -3.5 - 0.230.0940.27 \ 0.14 - 0.040.001@.0650.077 \ 0.1 \ 0.14 \ 0.05 \ 0.31 \ 0.120.0780.27 \ 0.18 \ 0.37 - 0.220.008 \ 0.0770.47 \ 0.65 \ 0.7 \ 1 \ 0.52 \ 0.42 \ 0.41 \ 0.130.039 \ 0.19 - 0.11 - 0.120.0940.0530.11 \ 0.130.039 \ 0.19 - 0.11 - 0.120.0940.0530.11 \ 0.130.039 \ 0.19 - 0.11 \ 0.130.039 \ 0.19 - 0.11 \ 0.130.039 \ 0.19 - 0.11 \ 0.130.039 \ 0.19 \ 0.19 \$ $\frac{1}{2} \frac{1}{2} \frac{1$ erosol [ug_m3] Bin07: $lg(C^*) = -0.5 - 0.120.0580.14 \ 0.07 - 0.11 - 0.00.0009.0006.0140.040.010.033 \ 0.1 - 0.0360.15 - 0.14 \ 0.033 - 0.0820.150.0640.11 \ 0.35 \ 0.5 \ 0.41 \ 0.57 \ 0.67 \ 1 \ 0.4 \ 0.51 \ 0.0820.130.0016.0130.0210.14$ erosol [ug_m3] Bin08: $lg(C^*) = 0.5 - 0.24 - 0.34 \cdot 0.14 \cdot 0.25 \cdot 0.22 - 0.019.048.0460.029.0850.0860.14 - 0.060.0940.0880.28 \cdot 0.3 - 0.14 \cdot 0.53 \cdot 0.39 \cdot 0.0820.020.0920.130.0710.15 \cdot 0.4 \cdot 1 \cdot 0.34 \cdot 0.32 \cdot 0.170.0390.0890.0310.24$ erosol [ug_m3] Bin09: $lg(C^*) = 1.5 - 0.1 - 0.31 - 0.13 - 0.13 - 0.13 - 0.13 - 0.13 - 0.13 - 0.13 - 0.13 - 0.13 - 0.13 - 0.13 - 0.14 - 0.07 - 0.02$ erosol [ug_m3] Bin10: $lg(C^*) = 2.5 - 0.16 - 0.6 \times 0.073.0640.0360.0220.0510.060.0710.140.0840.160.0910.28 - 0.24 - 0.660.0980.23 \times 0.26 \times 0.15 - 0.0960.13 - 0.14 - 0.19 - 0.12 - 0.010.082 \times 0.32 \times 0.43 \times 1 = 0.59 \times 0.46 \times 0.42 \times 0.071 \times 0.48 \times 0.42 \times 0.071 \times 0.48 \times$ erosol [ug_m3] Bin11: $lg(C^*) = 3.5 - 0.0690.360.0790.11 - 0.0120.0170.0250.0250.0250.0720.0420.0770.0440.14 - 0.12 - 0.410.0630.18 0.21 0.13 - 0.0460.0660.0720.110.0650.0470.13 0.17 0.52 0.59 1 0.62 0.67 0.15 0.31 0.15 0.31$ erosol [ug_m3] Bin12: $lg(C^*) = 4.5 \div 0.0040.33 \div 0.050.0630.02 \div 0.01 \div 0.02 \div 0.02 \div 0.03 \div 0.050.0630.02 \div 0.01 \div 0.02 \div 0.03 \div 0.050.0630.02 \div 0.03 \div 0.04 \div 0.03 \div 0.04 \div 0.01 \div 0.04 \div 0.01 \div$ erosol [ug_m3] Bin13: $lg(C^*) = 5.5 - 0.0410.270.022 \ 0.1 \ 0.01-30.00740.0180.020.0250.05-30.03-30.05-30.0940.0870.29 - 0.11-0.15 \ 0.130.0930.03-30.0490.05-30.0940.0660.0250.0130.0890.14 \ 0.42 \ 0.67 \ 0.83 \ 1 \ 0.31 \$ erosol [ug_m3] Bin14: $lg(C^*) = 6.5 - 0.15 - 0.140.03$ 0.02 0.06600 0.0600 0.09 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.04 0.01 0.04 0.NOx [molec/cm3] OH [molec/cm3] lg(C*) lg(C*) lg(C*) lg(C*) lg(C*) Gas [ug/m3] Bin02: lg(C*) Bin03: Bin01: Bin05: Bin04: Gas [ug/m3] Bin12: Bin05: Gas [ug/m3] Bin06: Gas [ug/m3] Bin08: Gas [ug/m3] Bin09: Gas [ug/m3] Bin10: Gas [ug/m3] Bin07: Gas [ug/m3] Bin11: Gas [ug/m3] Bin13: Gas [ug/m3] Bin14: Aerosol [ug_m3] Bin02: Gas [ug/m3] Aerosol [ug_m3] Aerosol [ug_m3] Gas [ug/m3] Aerosol [ug_m3] Aerosol [ug_m3] Aerosol [ug_m3]

- 0.8 - 0.6 - 0.4 - 0.2 - 0.0 - -0.2 - -0.4

- -0.6

- 1.0