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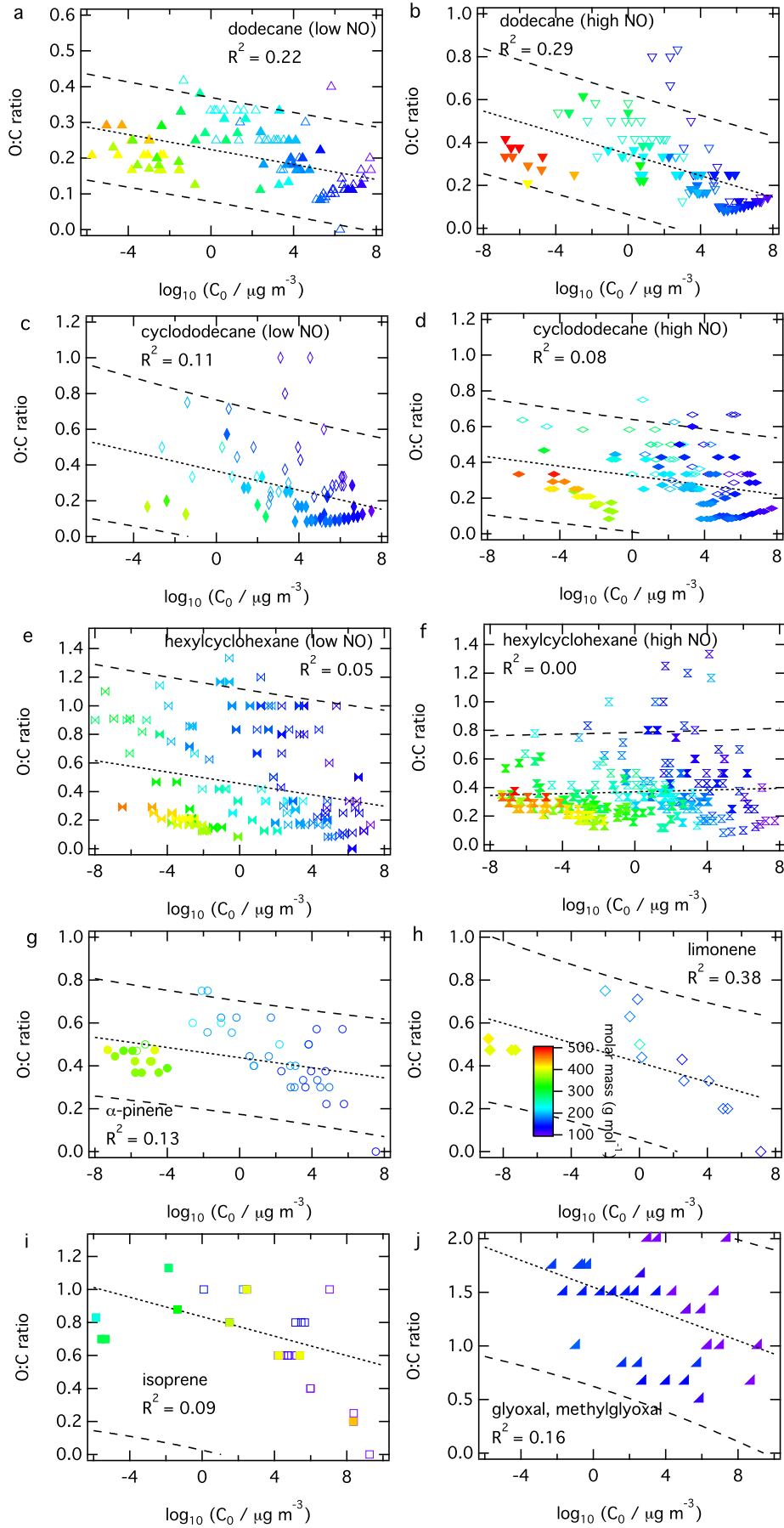


*Supplement of*

## **Molecular corridors and kinetic regimes in the multiphase chemical evolution of secondary organic aerosol**

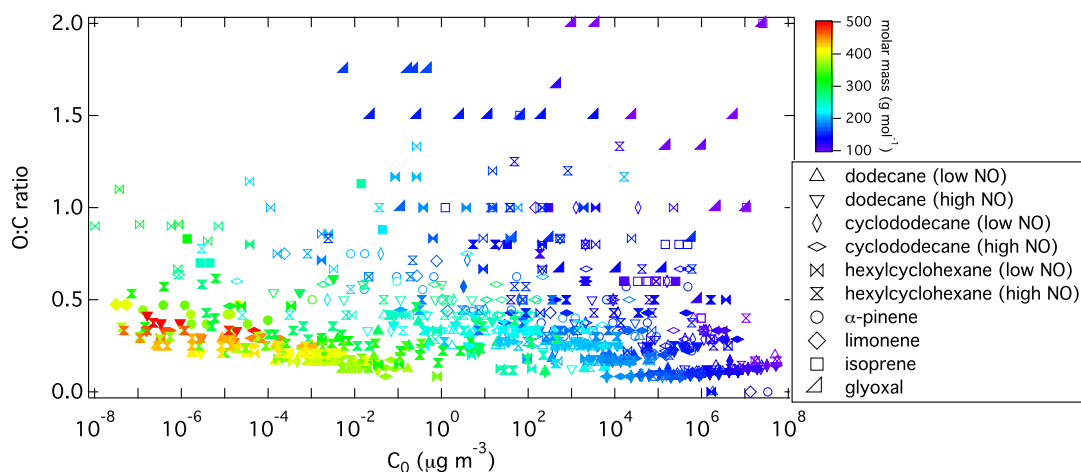
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2 **Figure S1.** Atomic O:C ratio vs. volatility ( $C_0$ ) at 298 K for oxidation products of  
 3 dodecane at low (a) and high (b) NO condition, cyclododecane at low (c) and high (d)  
 4 NO condition, and hexylcyclohexane at low (e) and high (f) NO condition and  
 5 isoprene (g),  $\alpha$ -pinene (h), limonene (i), and glyoxal and methylglyoxal (j). The open  
 6 and solid markers, color-coded with molar mass ( $\text{g mol}^{-1}$ ), correspond to the gas- and  
 7 particle-phase products, respectively. With a linear regression analysis, the correlation  
 8 between both quantities has been evaluated (dotted lines) with coefficients of  
 9 determination ( $R^2$ ), including prediction intervals at the 95 % confidence level  
 10 (dashed lines).

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**Figure S2.** Summary of O:C ratio vs.  $C_0$  for dodecane, cyclododecane,  
 hexylcyclohexane,  $\alpha$ -pinene, limonene, isoprene, and glyoxal. The open and solid  
 markers, color-coded with molar mass ( $\text{g mol}^{-1}$ ), correspond to the gas- and particle-  
 phase products, respectively.