Supporting Information of:

Reactions of Criegee Intermediates with Alcohols at Air-Aqueous Interfaces

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**FIGURE S1:** Negative ion mass spectra from 100 mM 1-octanol + 0.2 mM NaCl in AN:W (4:1 = vol:vol) solution microjets in the absence (gray) and presence of O₃(g) (red, $E = 2.4 \times 10^{11}$ molecules cm$^{-3}$ s). Note that no detectable products appear above background levels. See text for details.
**Figure S2:** Negative ion mass spectra from 1 mM β-C + 0.2 mM NaCl + 100 mM 1-hexanol in AN:W (4:1 = vol:vol) solution microjets in the absence (gray) and presence of O3(g) (red, E = 4.3 x 10^{10} molecules cm^{-3} s). The m/z 305;307 and 389;391 signals correspond to Cl^--adducts of α-hydroxy-hydroperoxides and α-alkoxy-hydroperoxides (C_{21} ether species), respectively. See text for details.
**FIGURE S3:** Negative ion mass spectra from 1 mM β-C + 0.2 mM NaCl + 100 mM 1-heptanol in AN:W (4:1 = vol:vol) solution microjets in the absence (gray) and presence of O₃(g) (red, $E = 3.9 \times 10^{16}$ molecules cm$^{-3}$ s). The m/z 305;307 and 403;405 signals correspond to Cl⁻-adducts of α-hydroxy-hydroperoxides and α-alkoxy-hydroperoxides (C$_{22}$ ether species), respectively. See text for details.
**FIGURE S4:** Negative ion mass spectra from 1 mM α-humulene (α-H) + 0.2 mM NaCl + 100 mM 1-octanol in AN:W (4:1 = vol:vol) solution microjets in the absence (gray) and presence of O₃(g) (red, $E = 1.4 \times 10^{11}$ molecules cm⁻³ s). The m/z 305;307 and 417;419 signals correspond to Cl⁻-adducts of α-hydroxy-hydroperoxides and α-alkoxy-hydroperoxides (C₂₃ ether species), respectively. See text for details.