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Effects of black carbon and boundary layer interaction on surface ozone in Nanjing, China

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Supplement：

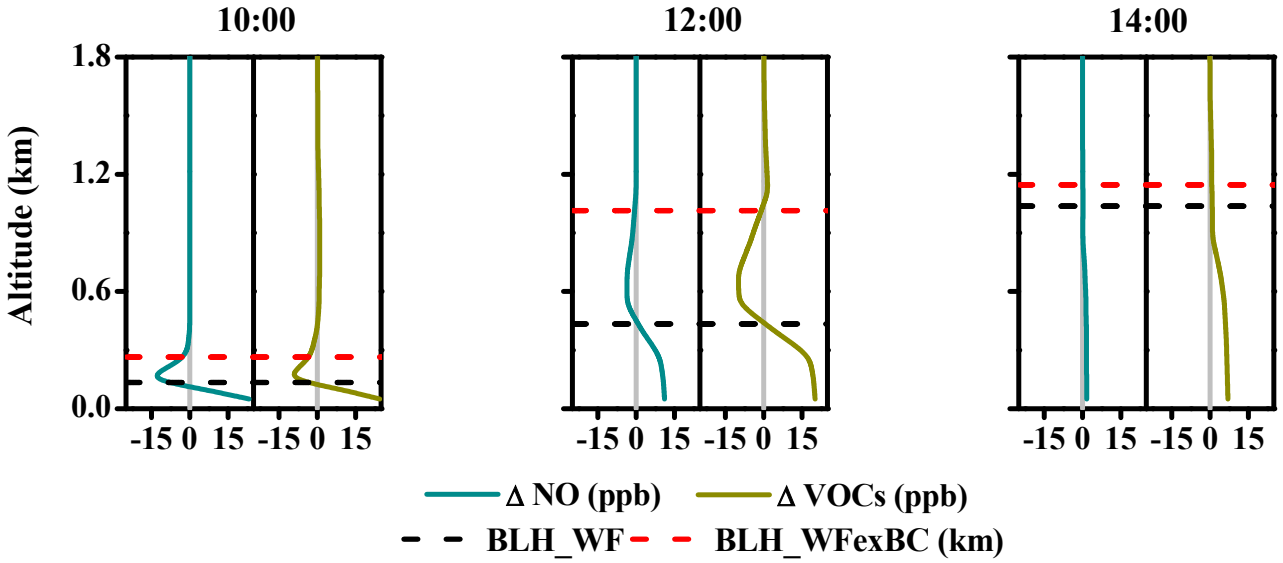

Figure S1: Vertical distributions of the changes in NO and VOCs induced by BC in Nanjing at 10:00, 12:00 and 14:00. BLHs of the two experiments (black and red dashed line denote BLH in Exp_WF and Exp_WFexBC, respectively) are also presented herein.

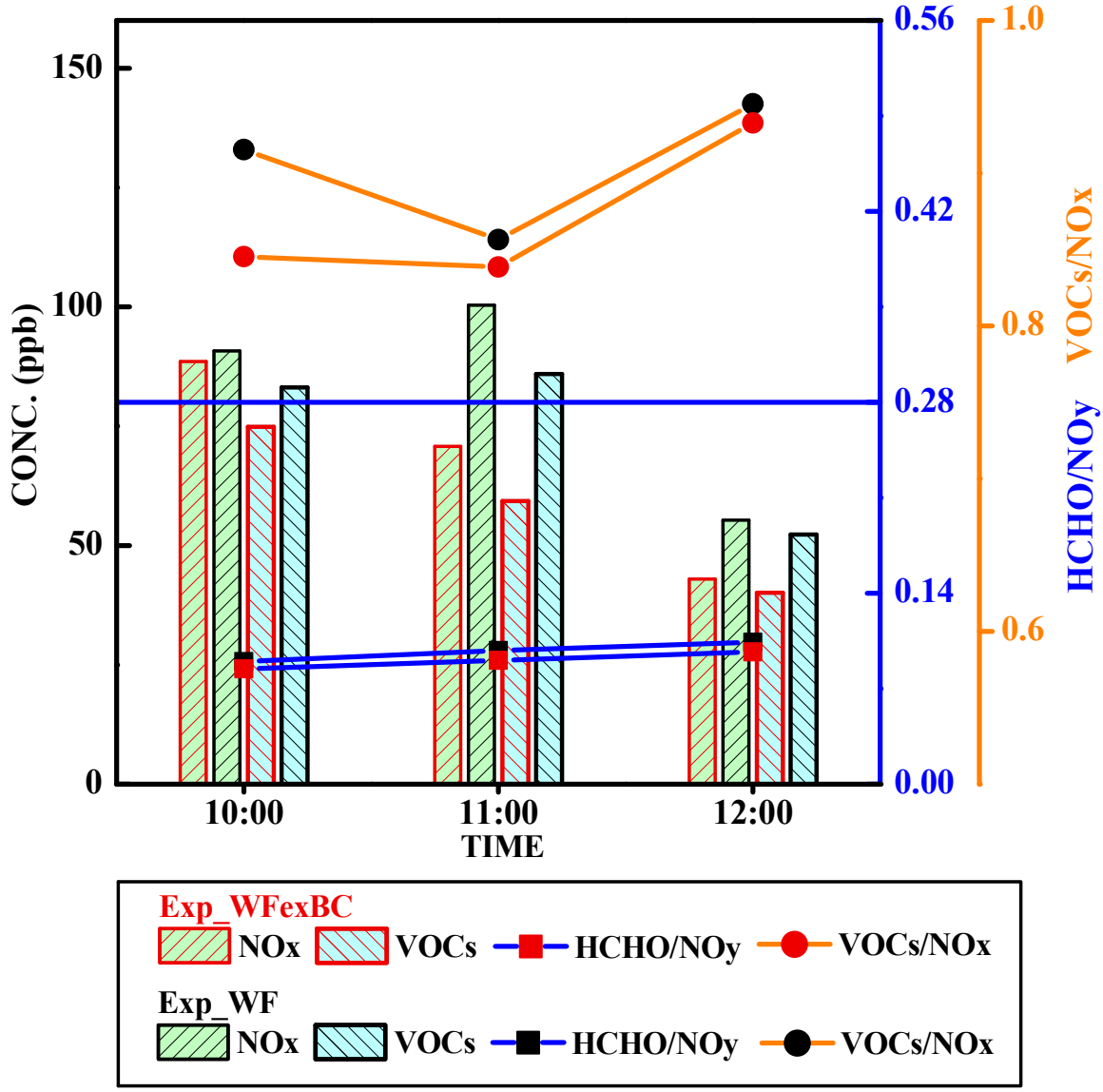

Figure S2: Concentrations of NOx and VOCs with (Exp_WF) and without (Exp_WFexBC) the impacts of BC at surface from 10:00 to 12:00. Ratios of VOCs/NOx with (solid line with black circles) and without (solid line with red circles) the impacts of BC are denoted in this figure. Ratios of HCHO/NOy with (solid line with black squares) and without (solid line with red squares) the impacts of BC are also denoted in this figure. The grey line presents the critical value and below which the ozone formed under VOC-limited conditions.