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Supplement of

Ultra-clean and smoky marine boundary layers frequently occur in the same season over the southeast Atlantic

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Supplemental Tables

Year	Ultra-clean days	Polluted days (for trajectory analysis)
2016	July 6, 7, 27, 28, 29, 30, 31 August 1, 2, 3, 4, 5, 6, 21, 23, 24, 25, 26, 27 September 2, 3, 11, 14, 15, 16 October 1 November 18, 30	July 2, 3, 9 August 12, 13, 14 September 23, 24, 29 October 13, 14, 23 November 3, 8, 25
2017	August 22, 23 September 26, 27 October 7, 9, 10, 11, 12, 16, 20, 21, 22	August 14, 15, 16 September 4, 9, 10 October 2, 4, 30

Table S1: Dates for all ultra-clean days and polluted (daily median $N_A > 90^{\text{th}}$ percentile for that month) days in the available LASIC record (June 1 2016 – October 30, 2017).

Supplemental Figures

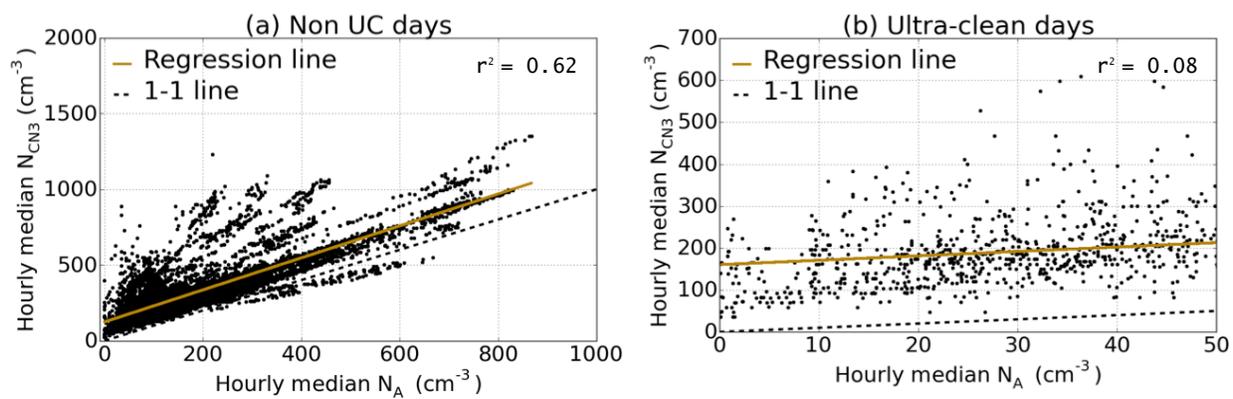


Figure S1: Hourly median N_{CN3} is regressed against hourly median N_A for both (a) non ultra-clean days and (b) ultra-clean days.

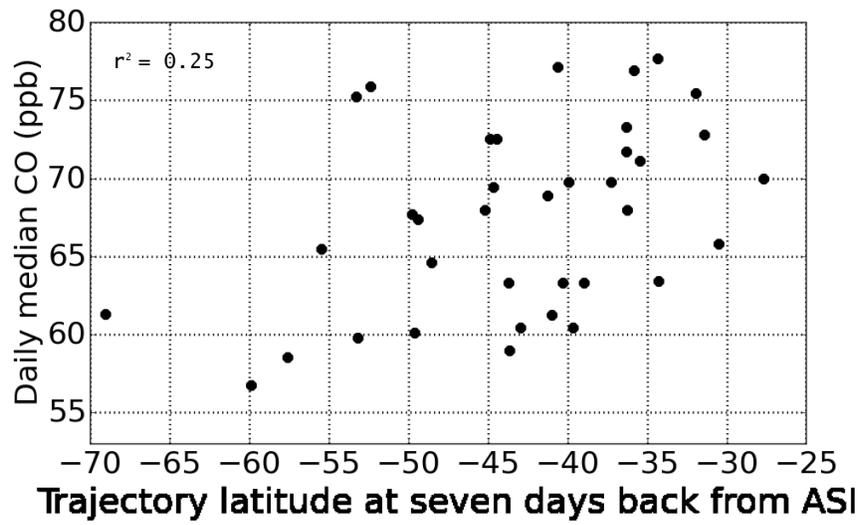


Figure S2: Relationship between daily median CO on ultra-clean days vs. trajectory latitude seven days back from ASI.