

Campaign	CalNex		SOAS	SENEX	This study
Type	Ground		Ground	Aircraft	Ground
PM cut size	PM ₁	PM _{2.5} ^a	PM ₁ & PM _{2.5} ^b	PM ₁	PM ₁
Year	2010		2013	2013	2016
Season	(early summer)		Summer	Summer	Fall
Region/location	SW US		SE US	SE US	SE US
SO ₄ ²⁻ , μg m ⁻³	2.86 ± 1.70	1.88 ± 0.69	1.73 ± 1.21	2.05 ± 0.80	1.6 ± 0.4
NO ₃ ⁻ , μg m ⁻³	3.58 ± 3.65	3.74 ± 1.53	0.08 ± 0.08	0.28 ± 0.09	0.20 ± 0.10
HNO ₃ , μg m ⁻³	6.65 ± 7.03	4.45 ± 3.59	0.36 ± 0.14	1.35 ± 0.66	0.50 ± 0.26
ε(NO ₃ ⁻)	39 ± 16 %	51 ± 18 %	22 ± 16 %	18 ± 6 %	26 ± 15 %
Total NO ₃ ⁻ , μg m ⁻³	10.22 ± 9.74	8.19 ± 3.89	0.45 ± 0.26	1.63 ± 0.70	0.70 ± 0.28
NH ₄ ⁺ , μg m ⁻³	2.06 ± 1.67	1.79 ± 0.65	0.46 ± 0.34	1.06 ± 0.25	0.40 ± 0.20
NH ₃ , μg m ⁻³	1.37 ± 0.90	0.75 ± 0.61	0.39 ± 0.25	0.12 ± 0.19	5.79 ± 3.67
ε(NH ₄ ⁺)	55 ± 25 %	71 ± 19 %	50 ± 25 %	92 ± 11 %	7 ± 5 %
Total NH ₄ ⁺ , μg m ⁻³	3.44 ± 1.81	2.54 ± 0.89	0.78 ± 0.50	1.17 ± 0.81	6.19 ± 3.68
Na ⁺ , μg m ⁻³	NA	0.77 ± 0.39	0.03 ± 0.07	NA	NA
Cl ⁻ , μg m ⁻³	NA	0.64 ± 0.48	0.02 ± 0.03	NA	0.01 ± 0.01
RH, %	79 ± 17	87 ± 9	74 ± 16	72 ± 9	69 ± 18
T, °C	18 ± 4	18 ± 3	25 ± 3	22 ± 3	24 ± 4
W _i , μg m ⁻³	13.9 ± 18.1	29.8 ± 20.7	5.1 ± 3.8	3.2 ± 2.8	1.6 ± 1.7
pH	1.9 ± 0.5	2.7 ± 0.3	0.9 ± 0.6	1.1 ± 0.4	2.2 ± 0.6
Reference	Guo et al. (2017a)		Guo et al. (2015)	Xu et al. (2016)	This study