

Date of Sampling	PM ₁₀	PM _{2.5}	AOD Mbour, Senegal	AOD MODIS	Dust observed from Satellite Visible	Prior 5-day location from HYSPLIT
08/07/2013	97	25	0.405	0.37	(Y, previous day)	Eastern subtropical Atl. Ocean, lower Trop.
31/08/2013	44	10	0.15	-999	N	Eastern subtropical Atl. Ocean, lower Trop.
30/09/2013	-999	-999	0.30	0.24	Y (previous day)	Eastern subtropical Atl. Ocean, lower Trop.
06/11/2013	-999	11	0.16	0.19	Y	Sahara, lower Trop.
05/12/2013	253	50	0.47	0.37	(clouds)	Sahara, E. Atlantic, lower Trop.
10/03/2014	85	19	0.44	0.44	Y	Eastern subtropical Atl. Ocean, lower Trop.
09/05/2014	127	29	0.29	0.72	Y	Eastern subtropical Atl. Ocean, lower/Mid. Trop.

11/06/2014	83	9	0.68	0.46	Y	Eastern subtropical Atl. Ocean, lower/Mid. Trop.
24/06/2014	81	5	0.92	0.81	Y	Eastern subtropical Atl. Ocean, lower Trop.
01/07/2014	65	5	-999	0.25	Y	Eastern subtropical Atl. Ocean, lower Trop.
03/03/2015	370	66	0.63	0.40	Y	Sahara, E. Atlantic, lower/mid Trop.
17/04/2015	98	21	1.39	1.23	Y	Eastern subtropical Atl. Ocean, lower Trop.
25/01/2016	279	-999	0.34	0.48	Y	Sahara, lower Trop.
20/02/2016	128	-999	0.25	0.34	Y	Eastern subtropical Atl. Ocean, lower Trop.
10/06/2016	45	-999	0.67	0.48	Y	Eastern subtropical Atl. Ocean, lower/mid Trop.

12/06/2016	65	-999	0.62	0.44	Y	Eastern subtropical Atl. Ocean, lower Trop.
20/06/2016	97	13	0.97	0.75	Y	Eastern subtropical Atl. Ocean, lower Trop.
24/06/2016	62	12	0.60	0.25	Y	Eastern subtropical Atl. Ocean, lower Trop.

Supplemental Table 1: Dust collection dates and surface PM, Satellite and ground based Aerosol Optical Depth.