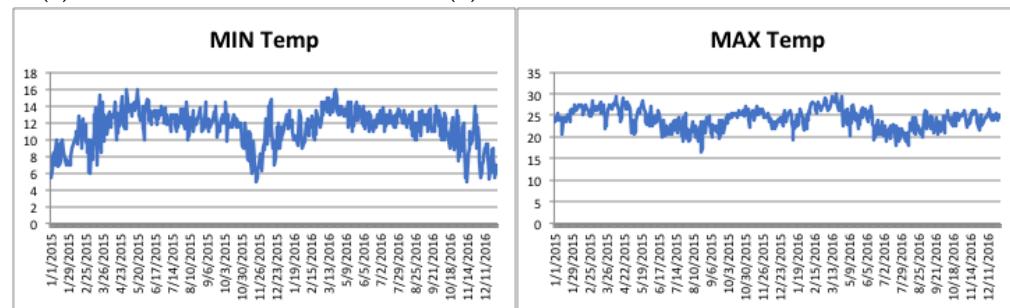
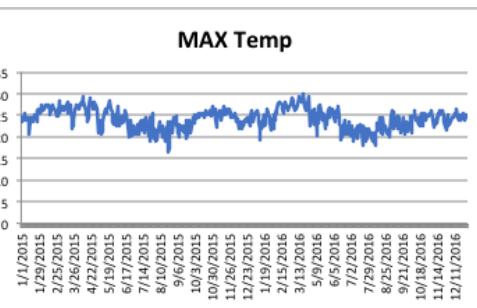


Supplementary Information

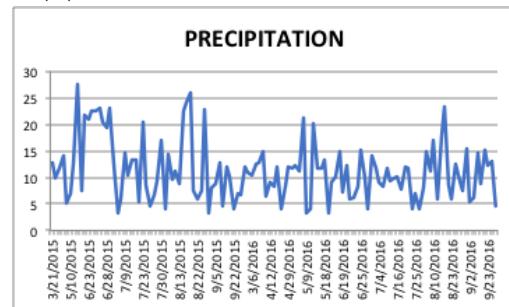
S1(a)



S1(b)

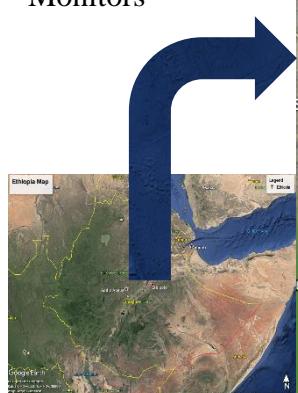


S1(C)

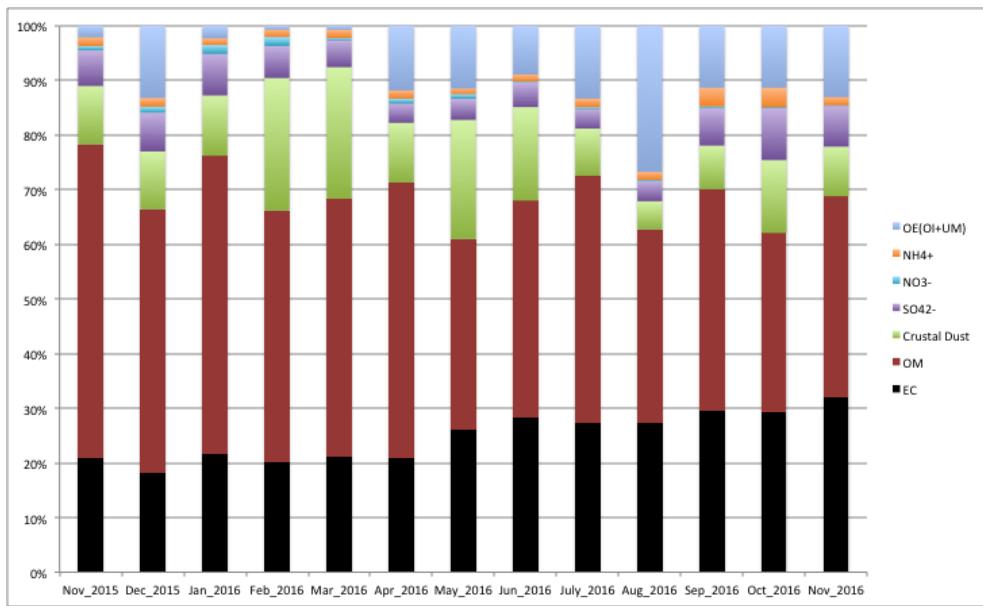


Supplemental Figure S1. Mean daily Minimum Temperature ($^{\circ}\text{C}$) (a), Maximum Temperature ($^{\circ}\text{C}$) (b) and Precipitation (mm) (C) in Central Addis Ababa during 2015-2016.

Addis Ababa PM_{2.5} Monitors



Supplemental Figure S2. Fine PM Monitoring stations in Addis Ababa, Ethiopia. NMA PM_{2.5} Sampler (Met Station site - this study); US Diplomatic Post BAM Monitors (Central and School sites) are shown in figure with blue pin.



Supplementary Figure S3. The percentage contribution of major mass constituents of PM_{2.5} in Central Addis Ababa; EC=Elemental carbon. OM=Organic matter; Other Ions= ws Na+, ws Cl-, ws K+, ws Ca²⁺; UM= Unidentified matter.

Supplemental Table S1

Table S1. Crustal Enrichment Factor(CEF>10) of 15 trace-elements identified from PM_{2.5}. samples in central Addis Ababa.

Element	^a Mean CEF	STDE V CEF	MIN CEF	MAX CEF
Thallium (Tl)	11	10	1	21
Nickel (Ni)	14	14	0	28
Phosphorous (P)	15	84	0	99
Vanadium (V)	21	17	4	38
Molybdenum (Mo)	37	48	0	85
Boron (B)	69	92	0	161
Zinc (Zn)	87	72	15	159
Copper (Cu)	115	675	0	790
Arsenic (As)	121	124	0	245
Lead (Pb)	124	191	0	315
Tin (Sn)	193	909	0	1102
Sulfur (S)	245	174	71	419
Silver (Ag)	648	1905	0	2553
Antimony (Sb)	3796	11347	0	15143
Selenium (Se)	19180	40393	0	59573

^a CEF>100 are listed in bold, showing significant PM toxic metal contamination from anthropogenic sources.