

Supplementary Material (SM)

Air Quality Indexing, Mapping and Principal Components Analysis of Ambient Air Pollutants around Farm Settlements across Ogun State, Nigeria

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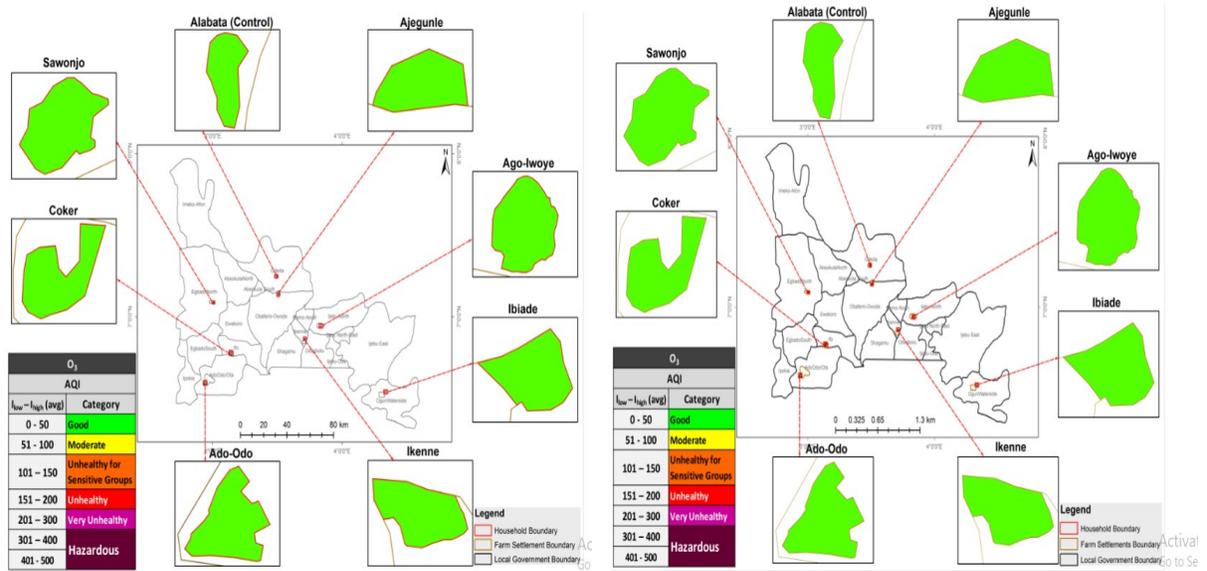
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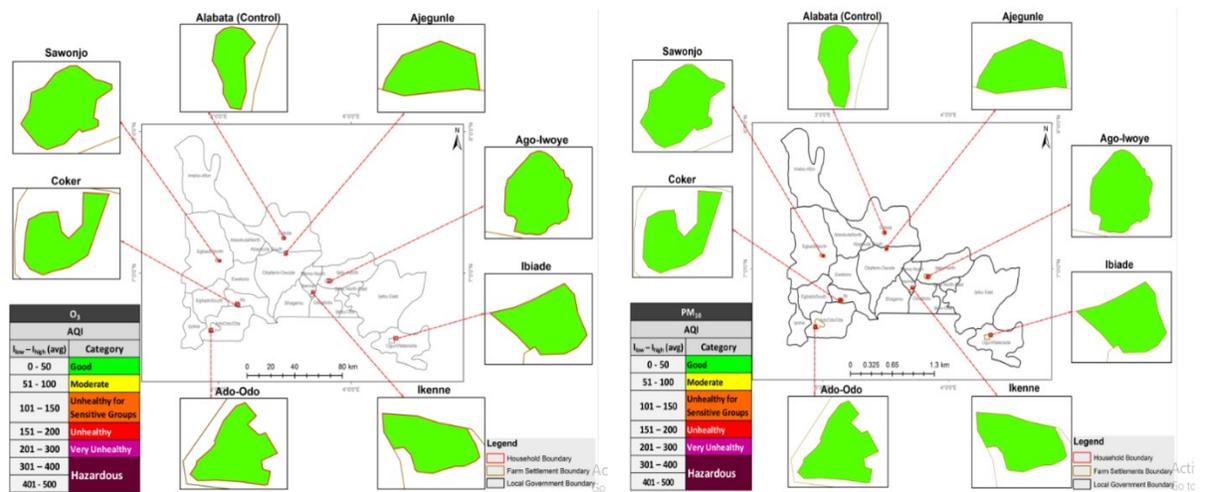
SM 1 Categories of AQI and breakpoints for health risk assessment

O ₃ (ppb)	O ₃ (ppb)	PM _{2.5} (µg/m ³)	PM ₁₀ (µg/m ³)	CO (ppm)	SO ₂ (ppb)	NO ₂ (ppm)	AQI	AQI
<i>C_{low} - C_{high} (avg)</i>	<i>I_{low}-I_{high}</i>	<i>Category</i>						
0 - 54 (8-hr)	-	0.0 - 12.0 (24-hr)	0 - 54 (24-hr)	0.0 - 4.4 (8-hr)	0 - 35 (1-hr)	0 - 53 (1-hr)	0 - 50	Good
55 - 70 (8-hr)	-	12.1 - 35.4 (24-hr)	55 - 154 (24-hr)	4.5 - 9.4 (8-hr)	36 - 75 (1-hr)	54 - 100 (1-hr)	51 - 100	Moderate
71 - 80 (8-hr)	125 - 164 (1-hr)	35.5 - 55.4 (24-hr)	155 - 254 (24-hr)	9.5 - 12.4 (8-hr)	76 - 185 (1-hr)	101 - 360 (1-hr)	101 - 150	Unhealthy for sensitive
86 - 150 (8-hr)	165 - 204 (1-hr)	55.5 - 150.4 (24-hr)	255 - 354 (24-hr)	12.5 - 15.4 (8-hr)	186 - 304 (1-hr)	361 - 649 (1-hr)	151 - 200	Unhealthy
106 - 200 (8-hr)	205 - 404 (1-hr)	150.5 - 250.4 (24-hr)	355 - 424 (24-hr)	15.5 - 30.4 (8-hr)	305 - 604 (24-hr)	650 - 1249 (1-hr)	201 - 300	Very unhealthy
-	405 - 504 (1-hr)	250.5 - 350.4 (24-hr)	425 - 504 (24-hr)	30.5 - 40.4 (8-hr)	605 - 804 (24-hr)	1250 - 1649 (1-hr)	301 - 400	Hazardous
-	505 - 604 (1-hr)	350.5 - 500.4 (24-hr)	505 - 604 (24-hr)	40.5 - 50.4 (8-hr)	805 - 1004 (24-hr)	1650 - 2049 (1-hr)	401 - 500	

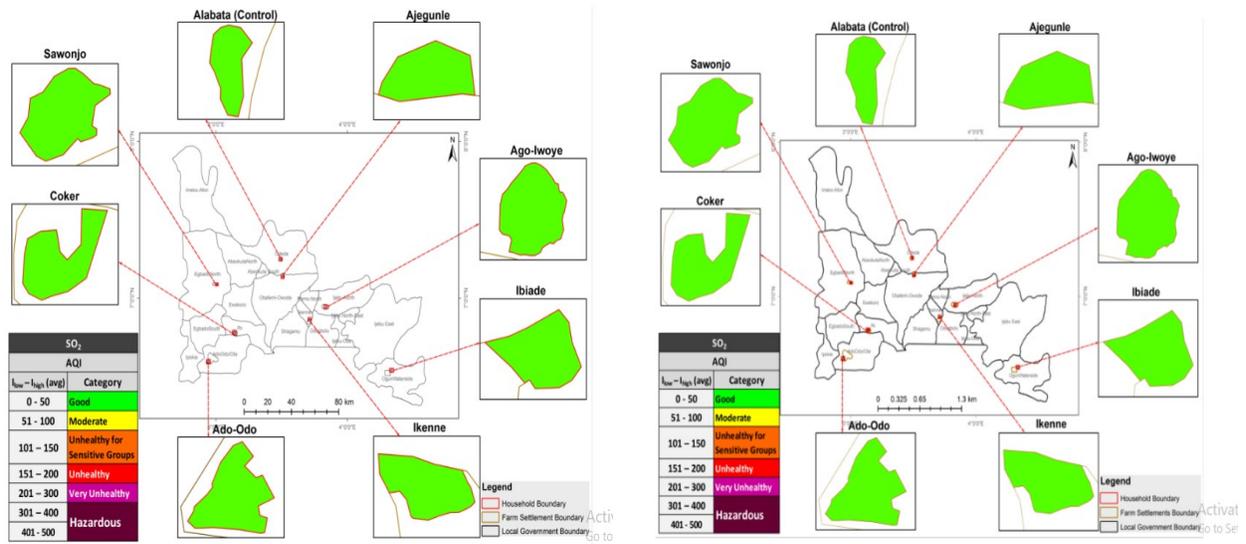
Source: USEPA [32]



SM 2 AQI of O₃ in the study locations during the dry and wet seasons, respectively.



SM 3 AQI of PM₁₀ in the study locations during the dry and wet seasons, respectively.



SM 4 AQI of SO₂ in the study locations during the dry and wet seasons, respectively.