Supplementary Information

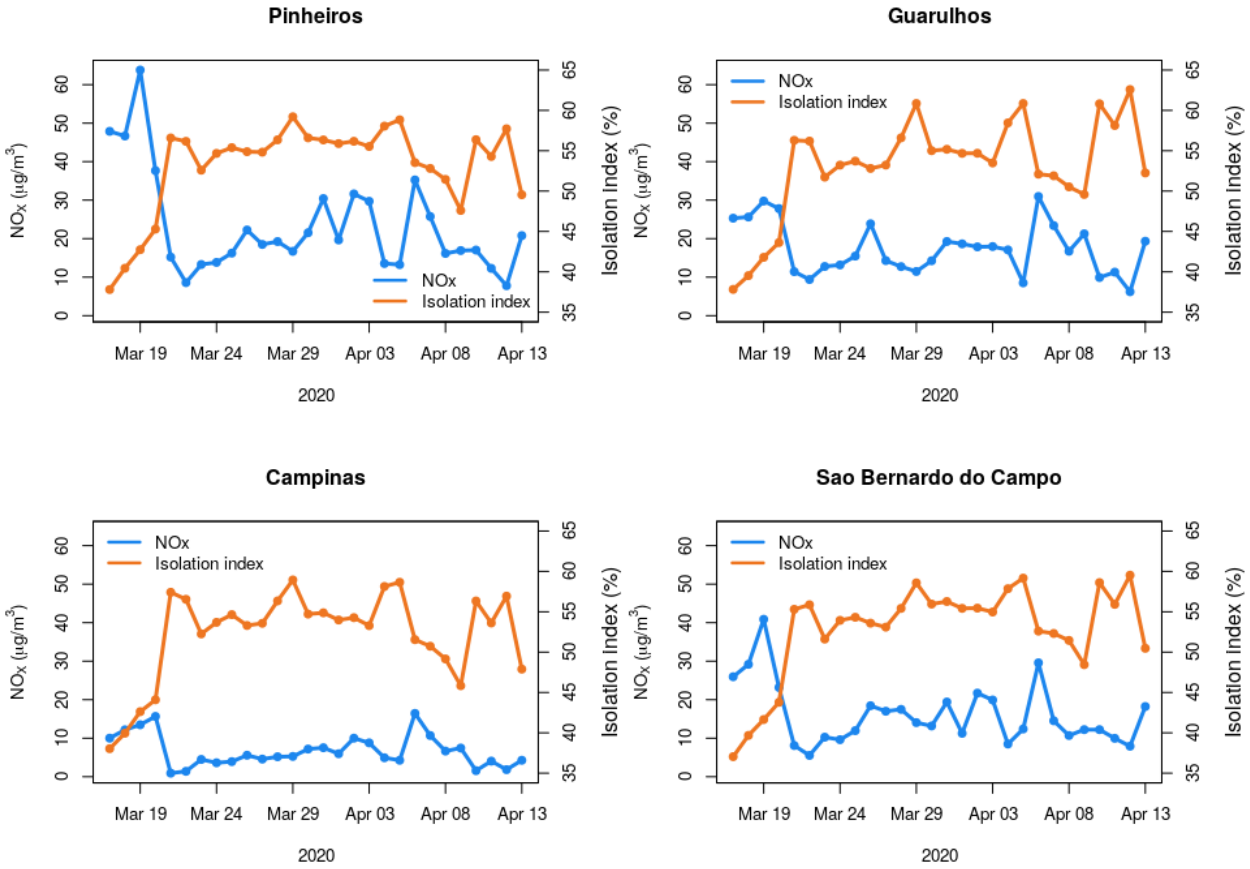
Contents

Supplementary Table 1: CETESB stations and respective pollutants measured in each one.

Station \ Pollutant	Lat; Lon	$PM_{2.5}$	PM_{10}	NO_2	O_3	CO
IPEN	-23.5663; -46.7376	x			x	
Congonhas	-23.6163; -46.6634	x	x	x		x
C. César	-23.5535, -46.6727		x	x		x
Osasco	-23.5268; -46.7921	x	x	x		x
N. S. do Ó	-23.4796; -46.6916				x	
Santana	-23.5060, -46.6290	x			x	
Ibirapuera	-23.5914; -46.6602	x	x	x	x	x
Mooca	-23.5493; -46.5981	x			x	x
Pinheiros	-23.5611; -46.7016	x	x	x	x	x
P. D. Pedro II	-23.5445; -46.6294	x	x	x	x	x
Parelheiros	-23,7763; -46,6969	x			x	x
Interlagos	-23.6805, -46.6750		x	x	x	
Itaquera	-23.5800, -46.4666				x	
S. Amaro	-23.6548; -46.7099				x	x
I. Paulista	-23.5015; -46.4207	x			x	
C. Redondo	-23.6684; -46.7800				x	
Pte. Remédios	-23,5187; -46,7433	x	x	x		x
P. Jaraguá	-23,4563; -46,7661	x	x	x	x	
Campinas	-22,9025; -47,0572			x		
Guarulhos	-23,4555; -46,5185			x		
S. B. Campo	-23,6987; -46,5462			x		

Supplementary Note 1: Intelligent Monitoring System

São Paulo State Government developed the Intelligent Monitoring System ("*Sistema de Monitoramento Inteligente", in Portuguese*, SIMI-SP). By using mobile phone information, it can track the mobility trends and check the quarantine measures efficacy. Experts indicate that to control COVID-19 dissemination, the isolation rate must reach 70 %, however, no municipality in São Paulo state has reached that goal. Supplementary Fig. 1 shows how NOx concentrations are negatively correlated to "isolation rate". Pinheiros air quality station represents the São Paulo city, Guarulhos and São Bernardo do Campo are located inside the MASP, and Campinas is located about 90 km to the northwest of São Paulo city. Different adhesion to the "stay at home" was observed at cities in São Paulo state but at most the effect of reducing the mobility is clear (more details are available at https://www.saopaulo.sp.gov.br/sala-de-imprensa/release/isolamento-social-em-sao-paulo-e-de-50-aponta-sistema-de-monitoramento-inteligente-4).



Supplementary Fig. 1: Comparison between NOx (µg m^{-3}) concentrations and "Isolation index" (%), from March to April 2020, during the isolation period.