

## Were biogenic volatile organic compounds mainly responsible for ozone pollution during the COVID-19 lockdown In Mexico City?

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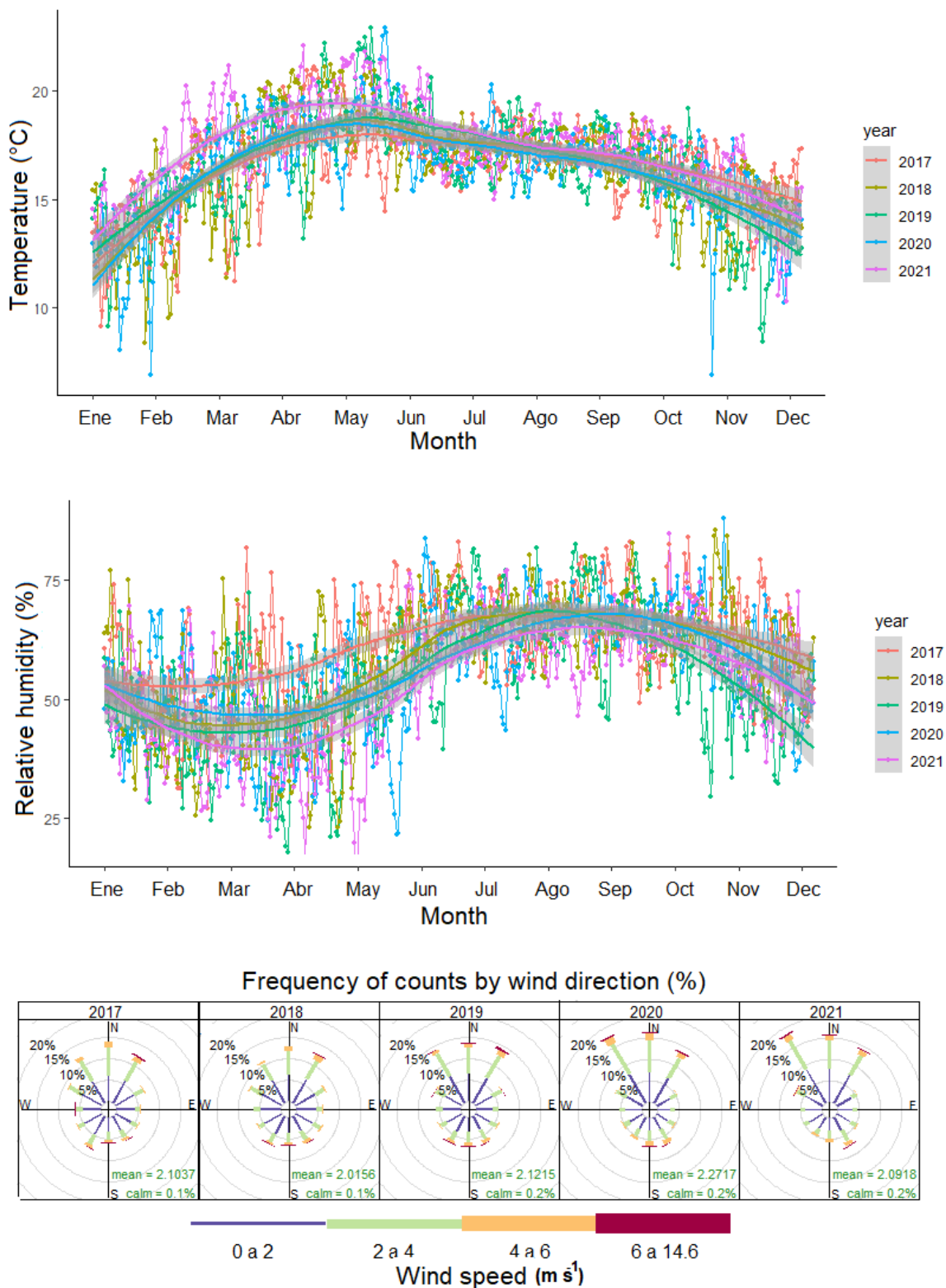
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## Supplementary Information

**Table S1.** Meteorological and air criterion pollutants stations in MAMV. The location, ID and some characteristics of the sites are described.

ID	Name, Municipality	State	Latitude	Longitude	Altitude (m)	Type	Coded location
ACO	Acolman, Acolman	Estado de México	19.635501	-98.912003	2198	Urban	NE
AJU	Ajusco, Tlalpan	CDMX	19.154674	-99.162459	2593	Rural	S
AJM	Ajusco Medio, Tlalpan	CDMX	19.2721	-99.207658	2619	Urban	S
CHO	Chalco, Chalco	Estado de México	19.266948	-98.886088	2253	Urban	SE
CUA	Cuajimalpa, Cuajimalpa	CDMX	19.365313	-99.291705	2704	Urban	W
CUT	Cuautitlán, Tepotzotlán	Estado de México	19.722186	-99.198602	2263	Rural/ Crops	N
FAC	FES Acatlán, Naucalpan	Estado de México	19.482473	-99.243524	2299	Urban	Not used
HGM	Hospital General de México, Cuahutémoc	CDMX	19.411617	-99.152207	2234	Urban	C
MER	Merced, Venustiano Carranza	CDMX	19.42461	-99.119594	2245	Urban	C
MGH	Miguel Hidalgo, Miguel Hidalgo	CDMX	19.40405	-99.202603	2366	Urban	Not used
MON	Montecillo, Texcoco	Estado de México	19.460415	-98.902853	2252	Rural/ Crops	E
NEZ	Nezahualcóyotl, Nezahualcóyotl	Estado de México	19.393734	-99.028212	2235	Urban	E
PED	Pedregal, Álvaro Obregón	CDMX	19.325146	-99.204136	2326	Urban	S
SAG	San Agustín, Ecatepec	Estado de México	19.532968	-99.030324	2241	Urban	NE
SFE	Santa Fe, Cuajimalpa	CDMX	19.357357	-99.262865	2599	Urban	W
TAH	Tláhuac, Xochimilco	CDMX	19.246459	-99.010564	2297	Urban	SE
TLA	Tlalnepantla, Tlalnepantla	Estado de México	19.529077	-99.204597	2311	Urban/ Industrial	N
UIZ	UAM Iztapalapa, Iztapalapa	CDMX	19.360794	-99.07388	2221	Urban/ Industrial	E
UAX	UAM Xochimilco, Coyoacán	CDMX	19.304441	-99.103629	2246	Urban	Not used
VIF	Villa de las Flores, Coacalco	Estado de México	19.658223	-99.09659	2242	Urban	N
XAL	Xalostoc, Ecatepec	Estado de México	19.525995	-99.0824	2160	Urban/ Industrial	N



**Fig. S1.** Daily average meteorological parameters, a) temperature, b) relative humidity and c) wind speed and direction in the MAMV from 2015 to December 2021.

**Table S2.** Descriptive phases of the official decisions about permitted or prohibited human activities according to the national situation for the SARS-CoV-2 virus spreading in the MAMV.

<b>Date</b>	<b>Lockdown phase or color of the epidemic traffic light monitoring system</b>	<b>Weekly average COVID-19 Cases / deaths</b>	<b>Phase characteristics and official measures taken</b>
19/02/2020	Phase 1	1 / 0	First case detected; in this phase all cases are related to importation
24/03/2020	Phase 2	45 / 1	Accelerated increase of cases; in this phase local contagious become dominant over imported cases. Official suspension of scholar activities, social distancing mandatory, meeting restrictions, closing of leisure, religious and sport facilities. Begin of the lockdown phase. After 21/04/2020 also government services were closed.
20/05/2020	Red	2,344 / 267	Implementation of the epidemiological traffic light system. Non-essential activities remain closed although construction, miner, beer factories are included as essential activities.
15/06/2020	Orange	4,309 / 504	Gradual re-opening of restaurants, hotels, cinemas, theaters, religious services, and small businesses (<30 employees) with 30% of maximum capacity. From this date, weekly additional re-openings were allowed, including parks and gymnasiums. Increase of the maximum capacity was permitted in all businesses
21/12/2020	Red	9,992 / 614	No re-closing measures were taken
15/02/2021	Orange	8,554 / 1,132	Outdoor activities are allowed, and schedule for restaurants is increased until 22:00
10/05/2021	Yellow	2,371 / 249	Entertainment and sport events are allowed with maximum 1,500 persons, parties up to 50 people
7/06/2021	Green	2,974 / 753	Re-opening of all activities except bars and nocturnal clubs. Restaurants and malls in extended schedule
21/06/2021	Yellow	3,314 / 151	No restrictions were imposed, bars and nocturnal clubs continue closed
26/07/2021	Orange	12,856 / 304	No restrictions were imposed, bars and nocturnal clubs continue closed
06/08/2021	Red / Orange	16,398 / 468	No restrictions were imposed. Schools, bars and nocturnal clubs continue closed. Contradiction between Federal government which classifies MAMV as red in the epidemiological traffic light system, but Mexico City government officially declares the situation as yellow
06/09/2021	Yellow	13,178 / 711	Schools, Bars and nocturnal clubs are allowed to re-open. Social distancing and use of masks were still recommended