

Figure_S1



Figure S2

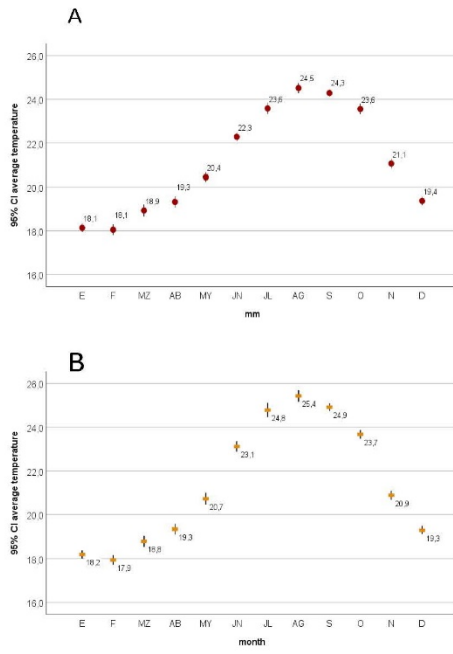


Figure S3

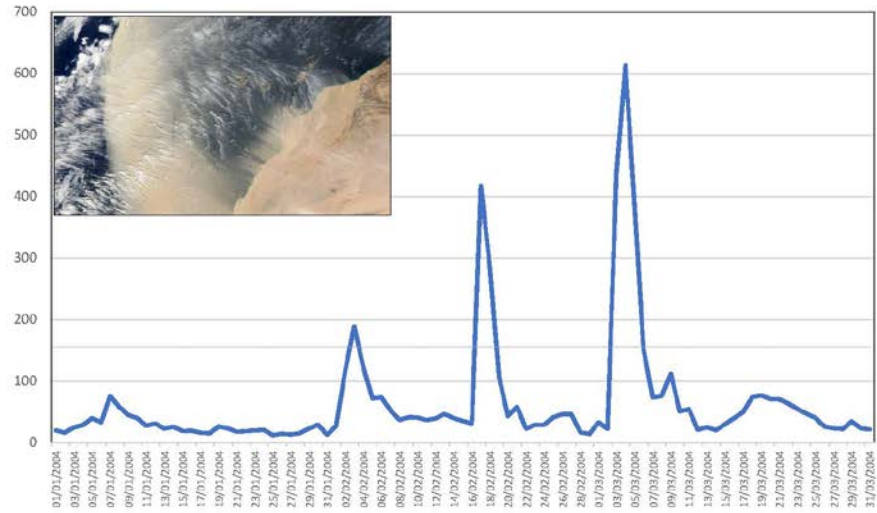


Table S1.- Heavy SDDs¹, and duration² of each SDE³ in L/P de Gran Canaria and S/C de Tenerife. 2001-2005

Year	Month	Las Palmas de G/C			S/C de Tenerife		
		Day	PM ₁₀ ⁴	Duration	Day	PM ₁₀	Duration
2001	2	11	164.0	7	11	399.3	
					12	247.6	7
					13	206.7	
	12	29	205.6				
		30	466.9	3	29	351.9	3
2002	1	6	252.8		7	350.0	
		7	393.1		10	258.9	10
				10	11	196.6	
	2	10	342.2		12	172.2	
					9	159.1	
				9	10	219.3	7
	4				13	153.6	
					23	155.8	9
					5	229.3	
	10	5	192.1	5	5	229.3	5
6		157.9		6	202.9		
2003	2	3	255.6	4	3	238.6	4
					2	398.3	
	3	2	347.3	10			9
		3	208.7		3	159.4	
	9	17	164.5	11	17	161.4	10
12				13	161.8	4	
2004	2	3	188.8	20	3	169.9	
					4	201.1	23
		17	416.9		17	248.8	

		18	284.2		18	203.2	
		3	437.6		3	333.9	
		4	612.3	9	4	600.9	9
3		5	386.0		5	453.6	
		6	151.2		6	207.6	
		26	155.1	7	24	183.1	8
7					26	181.9	
					26	242.4	9
8							
					6	156.1	7
					17	333.1	4
1		17	334.2	4	18	227.0	
					23	191.4	6
2005					14	510.22	7
		14	178.6	7	15	317.6	
2		15	356.6		10	232.1	3
					11	311.9	
3		11	179.8	2			

¹ Saharan Dust Days with $PM_{10} > 150 \mu\text{g}/\text{m}^3$; ² duration in days; ³ Saharan Dust Episode in which they are located; ⁴ $\mu\text{g}/\text{m}^3$

Table S2 Percent increases (95% CI) in risk of hospital admissions associated with 10 µg/m³ increase in PM fractions and the presence or absence of Saharan Dust day

	Las Palmas de Gran Canaria						Santa Cruz de Tenerife					
	PM _{2.5}		PM _{10-2.5}		PM ₁₀		PM _{2.5}		PM _{10-2.5}		PM ₁₀	
	%IR (95%CI)	<i>p</i>	%IR (95%CI)	<i>p</i>	%IR (95%CI)	<i>p</i>	%IR (95%CI)	<i>p</i>	%IR (95%CI)	<i>p</i>	%IR (95%CI)	<i>p</i>
All respiratory	1.64 (0.28, 3.02)		0.65 (-0.37, 1.68)	-	0.54 (-0.07, 1.15)		2.24 (0.76, 3.74)		1.60 (0.39, 2.83)		1.07 (0.36, 1.78)	
Non-SDD	-1.36 (-9.24, 7.20)		-1.19 (-7.58, 5.63)	-	-0.93 (-6.10, 4.52)		2.79 (-6.67, 13.21)		5.5 (-4.12, 16.06)		6.04 (- 1.56, 14.22)	
SDD	1.62 (0.15, 3.11)	0.49	0.54 (- 0.56, 1.65)	0.61	0.54 (-0.14, 1.22)	0.59	2.03 (0.42, 3.66)	0.87	1.20 (-0.15, 2.57)	0.40	0,85 (0.06, 1,65)	0.18
COPD	3.28 (0.43, 6.20)		2.16 (0.06, 4.31)		1.48 (0.21, 2.76)		4.14 (1.55, 6.80)		4.17 (2.22, 6.16)		2.55 (1.44, 3.68)	
Non-SDD	11.43 (-6.20, 32.37)		-1.47 (- 14.68, 13.79)		4.15 (-7.55, 17.33)		-4.60 (- 21.70, 16.24)		6.47 (-11.76, 8.45)		2.28 (-11.44, 18.12)	
SDD	3.17 (0.07, 6.37)	0.38	2.33 (0.08, 4.64)	0.60	1.52 (0.14, 2.91)	0.67	3.67 (0.89, 6.52)	0.40	3.94 (1.84, 6.19)	0.80	2.47 (1.24, 3.72)	0.97
Asthma	4.36 (-0.84, 9.84)		2.25 (-1.49, 6.17)		1.69 (-0.60, 4.04)		-0.26 (-4.75, 4.43)		3.40 (-4.91, 12.45)		-0.88 (-3.20, 1.49)	
Non-SDD	33.79 (-0.72, 80.31)		-0.62 (- 22.83, 27.98)		11.67 (-9.10, 37.18)		14.49 (- 14.44, 53.01)		18,15 (-11.30, 57.38)		15.52 (-7.47, 44.21)	
SDD	2.24 (-3.64, 8.47)	0.08	1.25 (-2.91, 5.59)	0.88	0.91 (-1.70, 3.59)	0.34	-1.16 (-6.21, 4.16)	0.31	-1.96 (- 6.44,2.74)	0.20	-1.60 (- 4.31,1.18)	0.15

The *p*-value is for the interaction between PM fractions and the Saharan dust indicator