

Table 2. Estimated Keeling-style slopes and coefficients of determination for each PCAP event

Start	End	Keeling Slope (ef = 1.5)	Keeling R ²
10-Dec-13 12	14-Dec-13 00	-190	0.33
15-Dec-13 12	19-Dec-13 12	-259	0.77
26-Dec-13 00	29-Dec-13 00	-275	0.62
30-Dec-13 12	31-Dec-13 12	-89	0.17
02-Jan-14 12	1-Jan-14 00	-101	0.13
17-Jan-14 00	22-Jan-14 12	-173	0.3
24-Jan-14 12	26-Jan-14 12	-185	0.34
31-Dec-14 12	3-Jan-15 12	-134	0.42
7-Jan-15 12	11-Jan-15 00	-241	0.34
15-Jan-15 12	17-Jan-15 00	-228	0.59
12-Jan-16 12	14-Jan-16 00	-128	0.25
22-Jan-16 12	23-Jan-16 12	-199	0.55
28-Jan-16 00	29-Jan-16 00	-206	0.15
8-Feb-16 12	14-Feb-16 12	-25	0.001
20-Dec-16 00	21-Dec-16 00	-130	0.06
27-Dec-16 12	28-Dec-16 12	-45	0.005
29-Dec-16 12	2-Jan-17 00	-193	0.52
7-Jan-17 12	8-Jan-17 12	-189	0.34
14-Jan-17 12	15-Jan-17 12	-379	0.64
18-Jan-17 00	19-Jan-17 00	-41	0.44
29-Jan-17 12	2-Feb-17 12	-232	0.08
13-Feb-17 12	15-Feb-17 12	-328	0.62

Table 3. Estimates of urban humidity fraction arising from fossil fuel combustion in the SLV across different PCAP periods

Start	End	Max CO ₂	Min d _{obs}	d _{nat} before PCAP	d _{nat} , last value with < 425 ppm CO ₂	q _{CDV} /q _{obs} , d _{nat} before PCAP	q _{CDV} /q _{obs} , last value with < 425 ppm CO ₂
10-Dec-13 12	14-Dec-13 00	558.0	-7.0±2.3	20.8±2.8	20.8±2.8	13.9±2.9	13.9±2.9
15-Dec-13 12	19-Dec-13 12	632.9	-10.9±2.0	10.0±2.0	11.4±1.8	11.1±2.4	11.7±2.3
26-Dec-13 00	29-Dec-13 00	592.4	-13.8±1.9	6.3±2.2	6.3±2.2	10.8±2.5	10.8±2.5
30-Dec-13 12	31-Dec-13 12	557.6	-4.1±1.8	5.7±2.1	6.9±2.1	5.3±2.2	5.9±2.2
02-Jan-14 12	1-Jan-14 00	555.7	-8.1±1.6	-1.3±1.7	1.7±1.7	3.8±1.9	5.4±1.9
17-Jan-14 00	22-Jan-14 12	569.0	-9.6±1.8	1.8±1.7	3.4±1.9	6.3±2.0	7.1±2.2
24-Jan-14 12	26-Jan-14 12	511.6	-7.8±2.2	-1.6±2.3	2.1±1.8	3.5±2.6	5.5±2.3
31-Dec-14 12	3-Jan-15 12	500.3	-10.5±2.6	5.6±5.4	5.6±5.4	8.7±4.5	8.7±4.5
7-Jan-15 12	11-Jan-15 00	580.6	-3.6±1.3	5.2±1.4	9.6±2.1	4.8±1.5	7.0±1.9
15-Jan-15 12	17-Jan-15 00	525.5	2.2±2.0	9.7±2.3	11.6±2.1	4.0±2.3	4.9±2.2
12-Jan-16 12	14-Jan-16 00	526.5	-5.9±2.2	-2.3±3.0	2.5±2.9	2.0±3.0	4.6±2.9
22-Jan-16 12	23-Jan-16 12	524.9	-4.3±1.9	2.5±2.6	3.2±2.4	3.7±2.5	4.1±2.4
28-Jan-16 00	29-Jan-16 00	490.5	-3.4±2.1	2.1±2.1	-3.2±2.5	3.0±2.3	0.1±2.6
8-Feb-16 12	14-Feb-16 12	532.8	-2.7±1.9	0.7±2.1	0.6±3.3	1.9±2.2	1.8±2.9
20-Dec-16 00	21-Dec-16 00	491.1	-9.8±2.6	-1.4±3.6	-10.7±4.3	4.7±3.5	-0.5±4.1
27-Dec-16 12	28-Dec-16 12	522.9	-17.0±2.9	-10.9±3.2	-9.8±3.1	3.6±3.7	4.3±3.6
29-Dec-16 12	2-Jan-17 00	652.9	-23.1±2.3	-12.1±2.4	-6.3±2.6	6.6±2.9	9.7±3.0
7-Jan-17 12	8-Jan-17 12	588.2	-25.9±3.9	-19.0±3.6	-17.6±4.5	4.3±4.7	5.1±5.2
14-Jan-17 12	15-Jan-17 12	459.1	-2.4±1.9	-0.7±1.8	1.4±1.7	1.0±2.1	2.1±2.0
18-Jan-17 00	19-Jan-17 00	512.7	-4.9±2.3	-3.4±2.2	-1.0±2.1	0.9±2.6	2.2±2.5
29-Jan-17 12	2-Feb-17 12	525.8	-14.7±3.1	-8.3±3.0	-5.0±3.2	3.7±3.6	5.6±3.7
13-Feb-17 12	15-Feb-17 12	537.9	-9.4±2.1	-1.0±2.3	3.1±2.0	4.7±2.5	6.9±2.4