



# Change in Distribution Pattern of PM<sub>2.5</sub> Pollution over Central China

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**Table S1.** Descriptive statistics of HPEs over THB during 2015–2019.

Dates (YYYYMMDD)	Number of Cities Affected	Average Concentrations ( $\mu\text{g m}^{-3}$ )	Maximum Concentrations ( $\mu\text{g m}^{-3}$ )	Regional Contribution (%)
20151211	9	156	277	66.9
20151212	11	179	264	70.9
20151223	5	133	190	70.6
20151224	3	115	178	70.3
20151225	9	164	281	51.4
20151230	4	128	169	28.7
20160102	4	131	206	19.4
20160104	8	163	342	75.0
20160105	4	129	229	80.3
20160111	6	133	215	63.2
20160118	8	154	235	73.7
20160130	3	99	208	78.9
20160208	12	196	312	30.8
20160306	3	99	183	51.5
20161115	4	114	261	75.0
20161209	3	122	176	40.7
20161220	4	125	417	60.9
20170102	7	138	185	36.8
20170103	8	154	213	44.7
20170104	13	179	229	1.7
20170128	14	221	449	30.8
20170217	4	130	165	62.2
20170306	6	139	216	61.5
20170307	6	137	203	53.4
20171204	4	124	278	69.7
20171205	6	141	185	56.4
20171229	3	119	279	30.1
20171230	3	118	170	47.5
20180102	3	104	207	46.9
20180119	10	171	307	36.6
20180120	5	126	228	17.1
20180216	5	133	190	49.9
20181130	7	150	237	50.0
20181201	10	176	269	37.0
20181202	5	129	203	22.5
20190105	7	154	279	76.8
20190106	12	175	324	45.6
20190107	8	159	287	36.6
20190108	8	152	270	77.6

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20190126	5	125	190	84.9
20190128	3	119	154	50.0
20190129	3	120	186	59.8
20190130	4	113	194	28.9
20190205	10	158	252	13.9
20191214	4	132	187	38.3
20191215	4	122	211	52.4

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Note: the dates with red font refer to the co-existing HPEs in NCP and THB.