

Supplementary Material

Table S1. Base information of the selected 18 main cities in Sichuan Basin. Location of the 18 main cities are presented in Figure 1b.

City-level	City
Megacity	Chengdu (CD)
	Chongqing (CQ)
Prefecture-level city	Mianyang (MY)
	Deyang (DY)
	Ya'an (YA)
	Meishan (MS)
	Ziyang (ZY)
	Leshan (LS)
	Neijiang (NJ)
	Zigong (ZG)
	Yibin (YB)
	Guangyuan (GY)
	Bazhong (BZ)
	Dazhou (DZ)
	Suining (SN)
	Nanchong (NC)
	Guangan (GA)
	Luzhou (LZ)

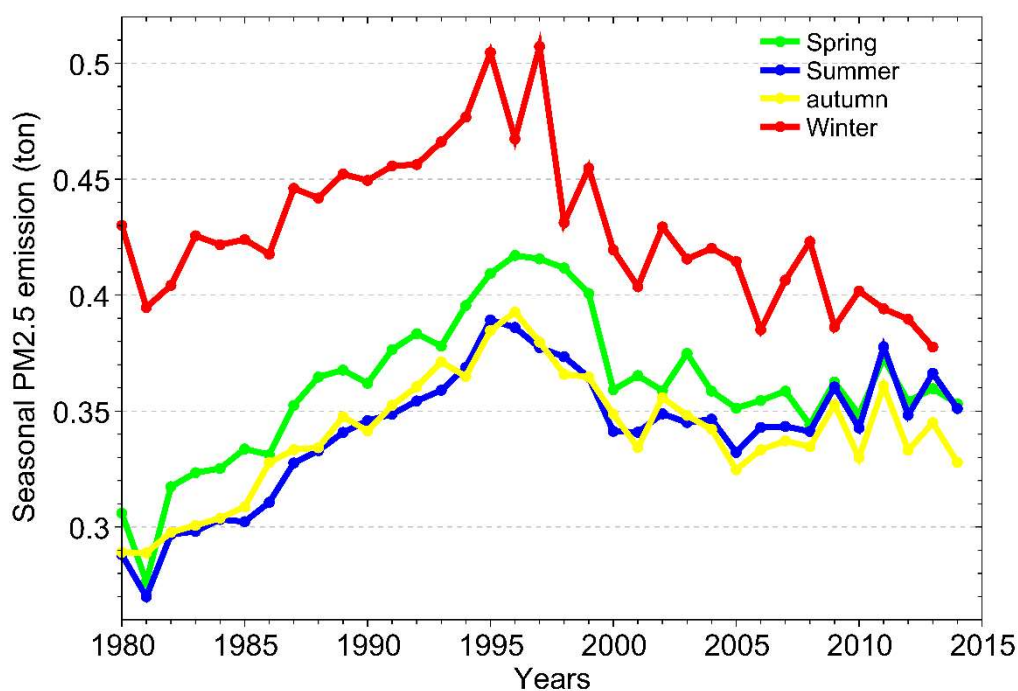


Figure S1. Seasonal variation in total anthropogenic emissions of PM_{2.5} (unit: ton) averaged over Sichuan-Chongqing region for 1980–2014, derived from PKU emission inventory.

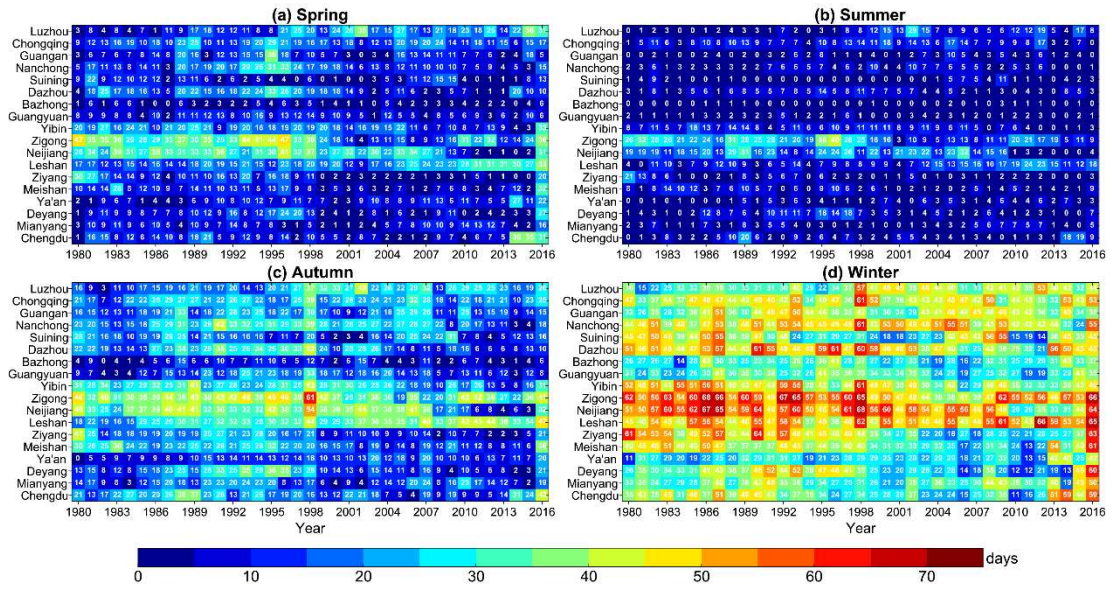


Figure S2. Seasonal number of haze days in 18 main cities of the SCB from 1980 to 2016.

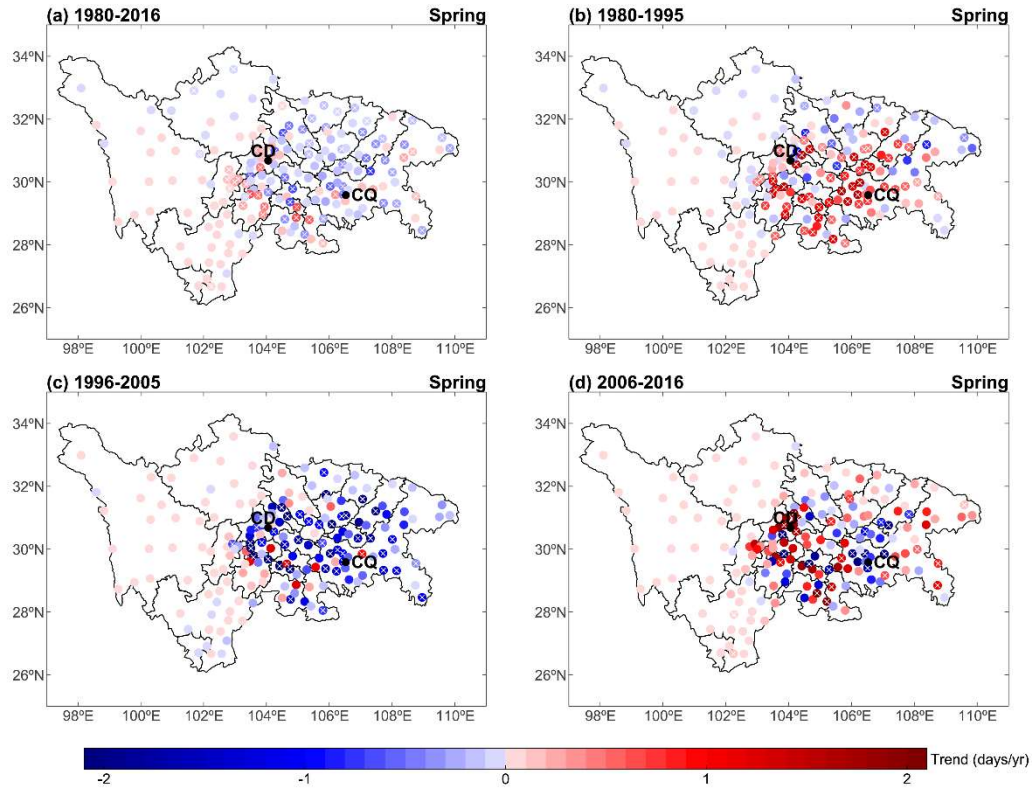


Figure S3. Linear trend of station spring haze days in the four periods: (a) 1980–2016, (b) 1980–1995, (c) 1996–2005, and (d) 2006–2016. The circle with a cross means trend above 95% significance level.

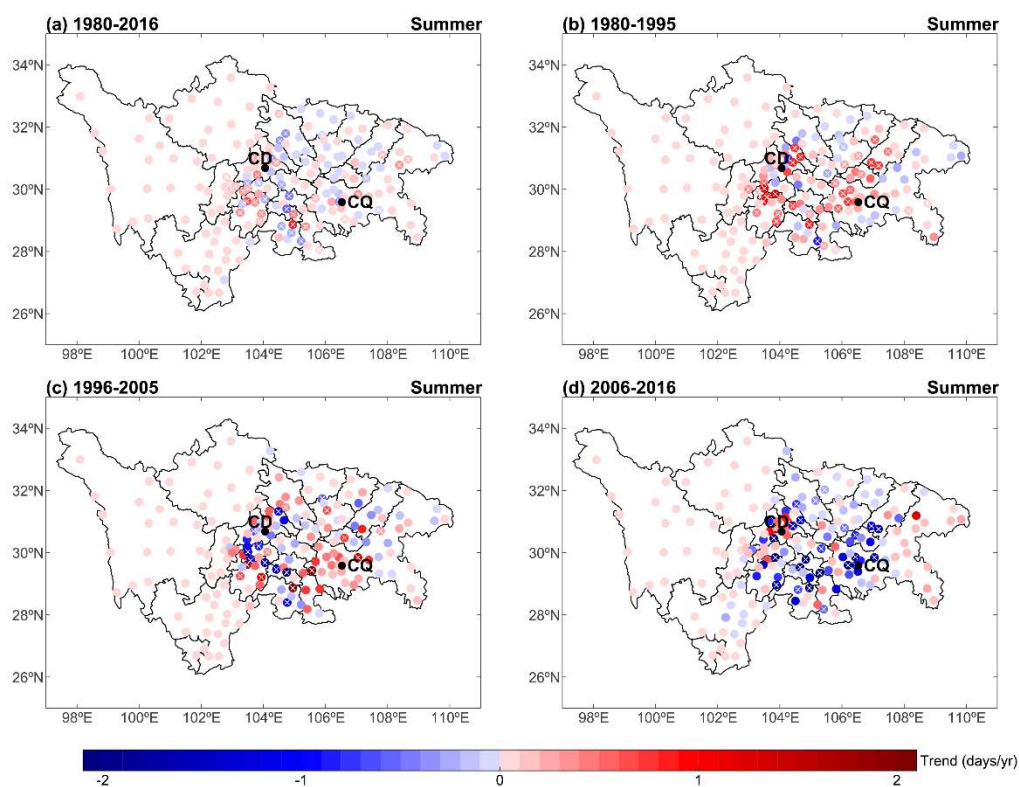


Figure S4. Same as Figure S3, but for summer.

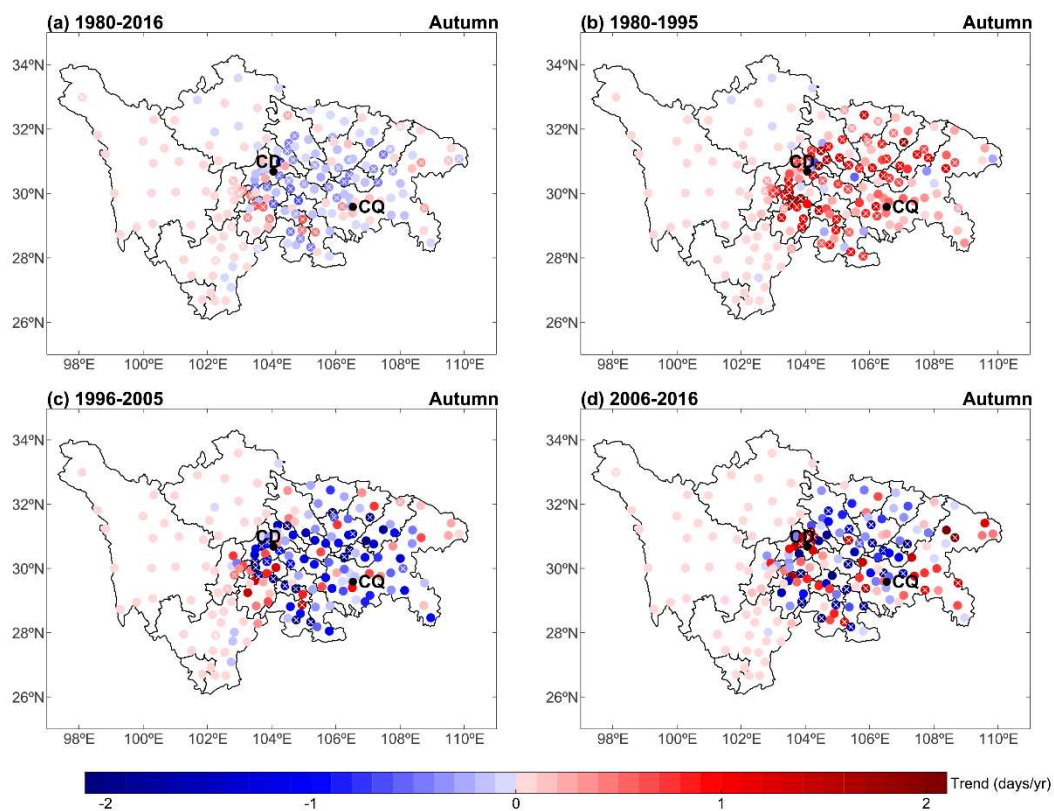


Figure S5. Same as Figure S3, but for autumn.

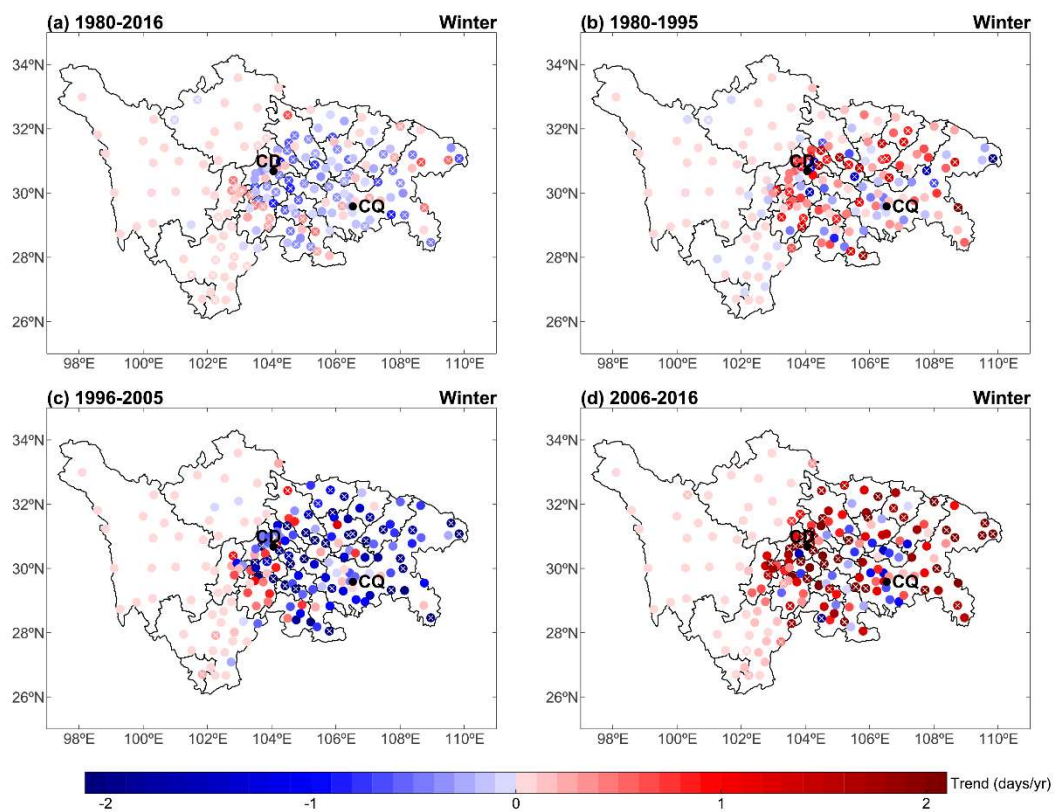


Figure S6. Same as Figure S3, but for winter.