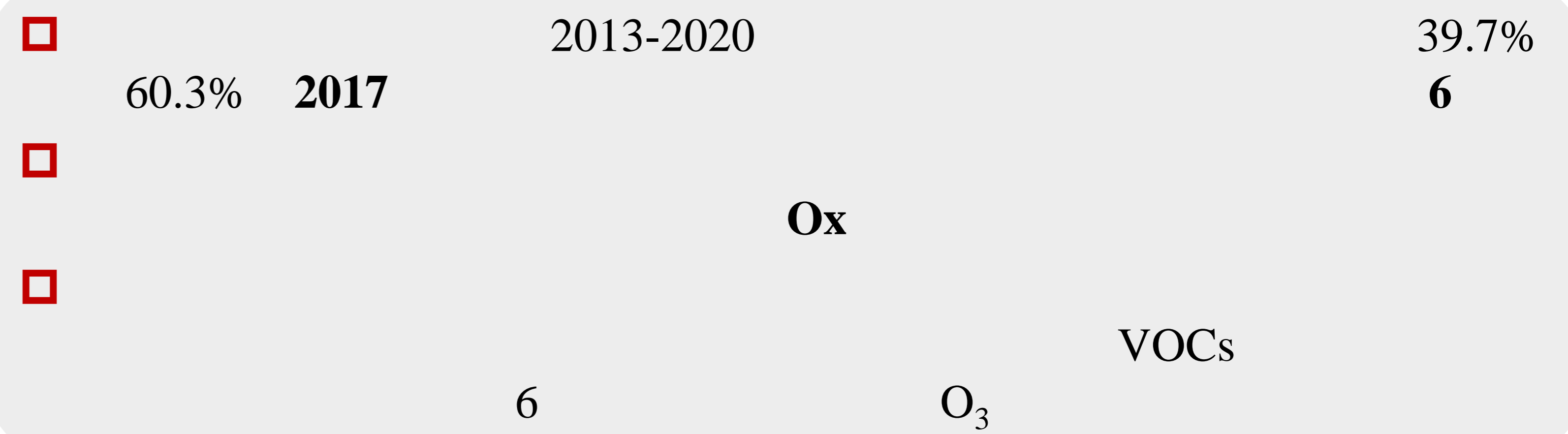




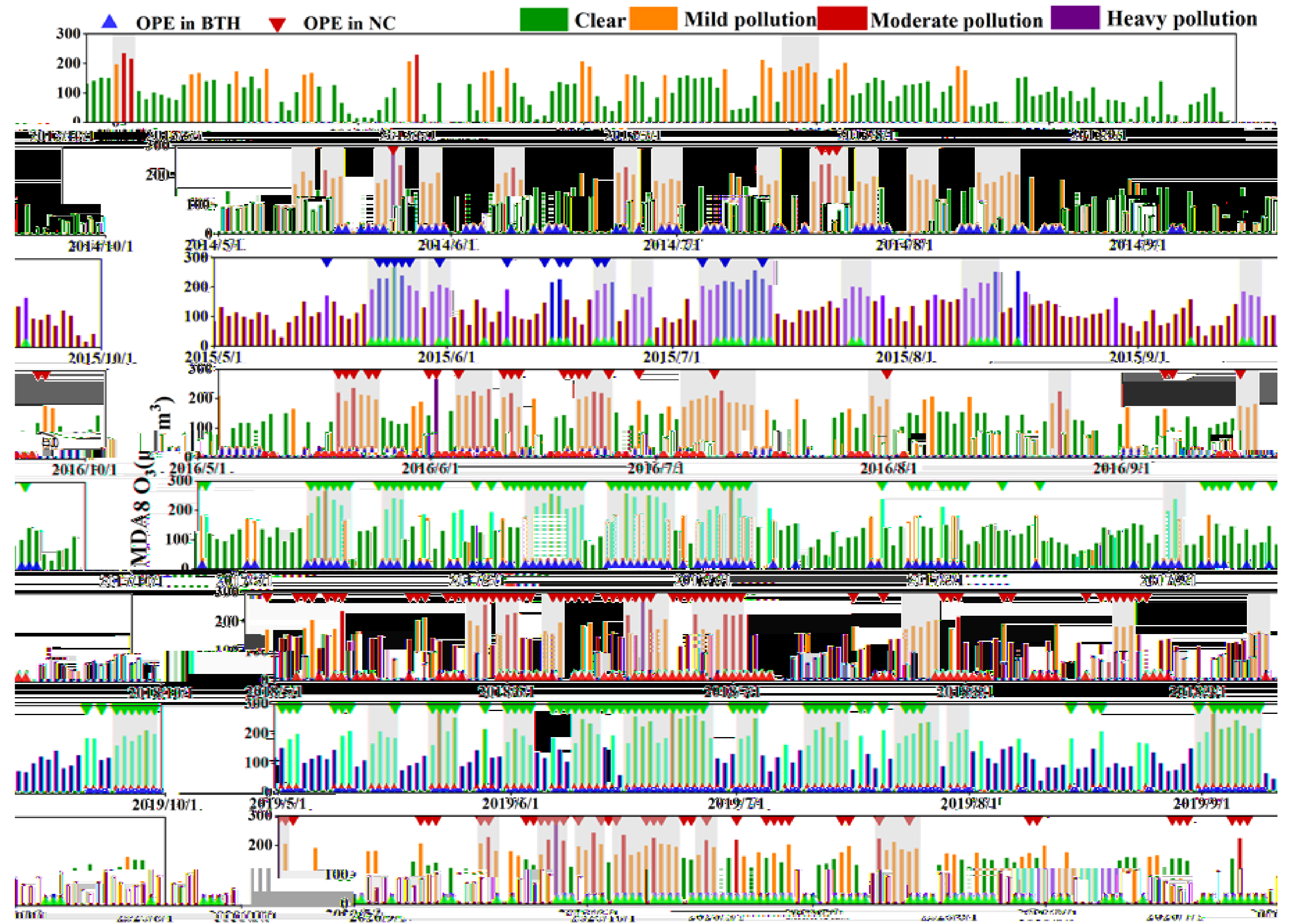
2013-2020



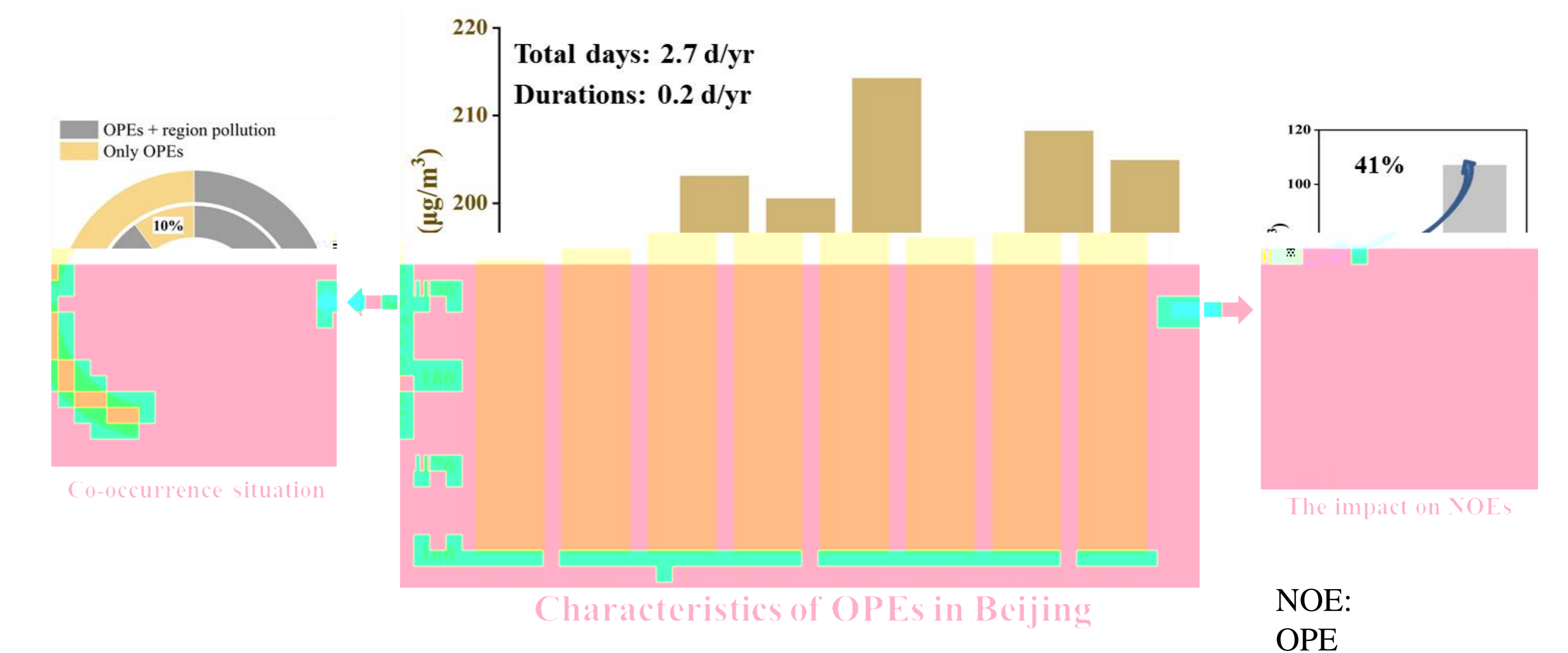
中国科学院大气物理研究所95周年
IAP 95th Anniversary



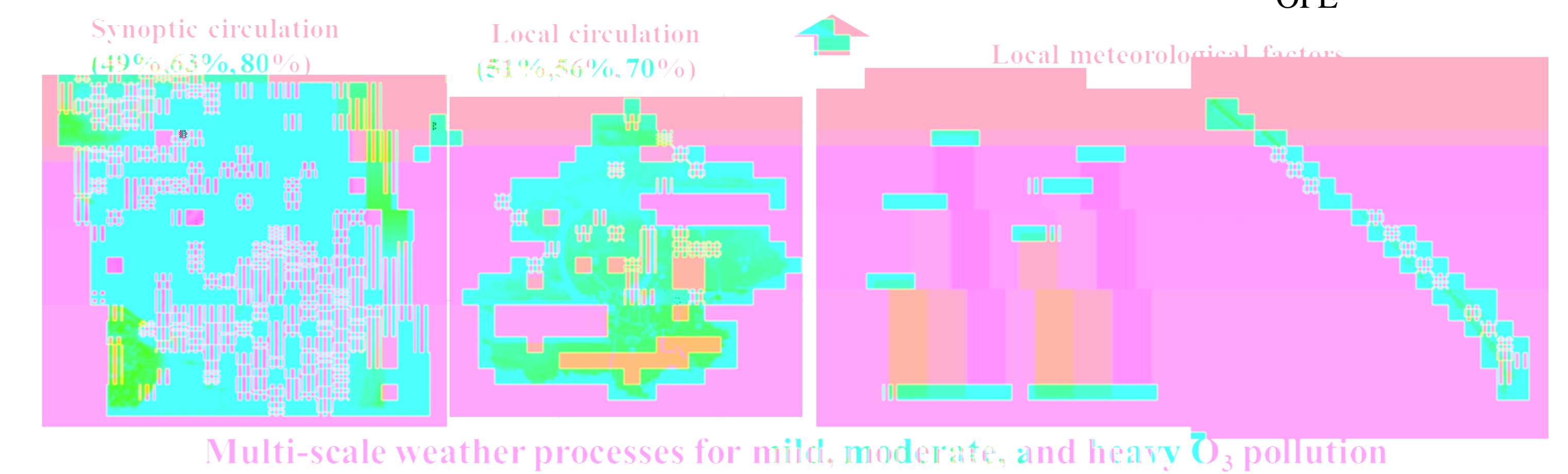
2013-2020北京臭氧污染演变及与区域污染的关系



OPE臭氧污染事件; 灰色阴影为北京OPE

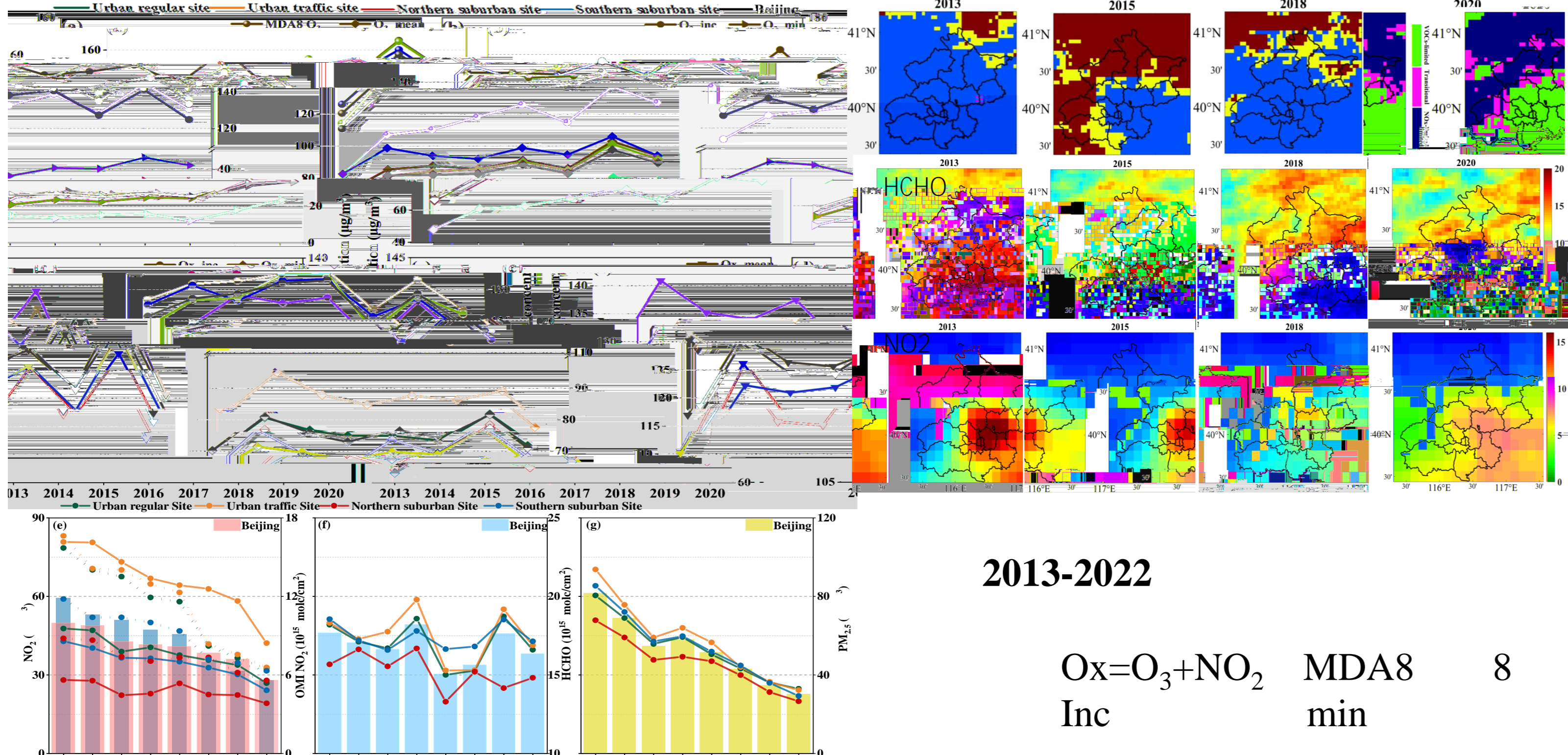


Characteristics of OPEs in Beijing



Multi-scale weather processes for mild, moderate, and heavy O₃ pollution

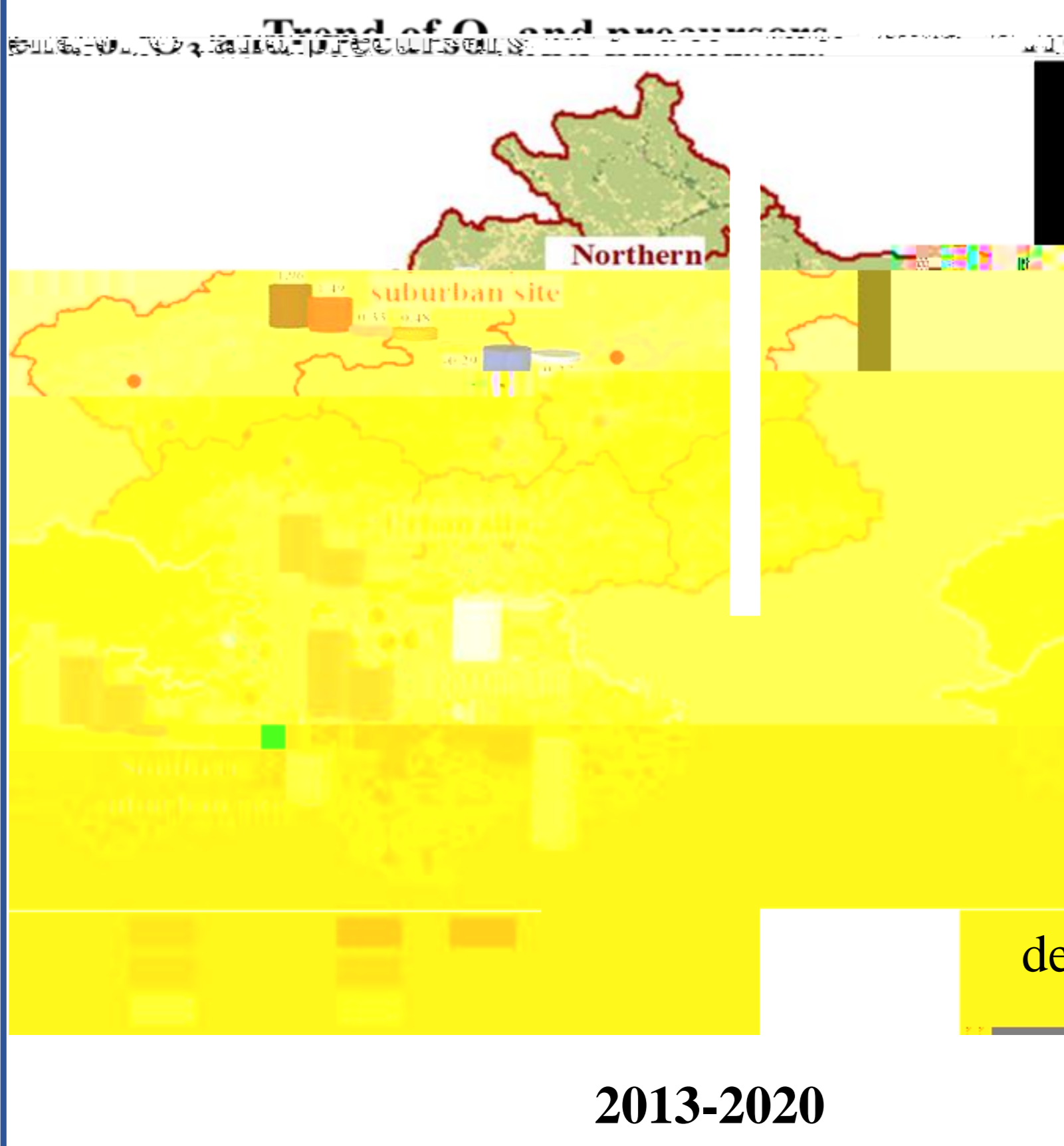
2013	2020	OPE	
		90% (53%)	OPE ()
		OPE	-
		(49%-80%)	(51%-70%)
		OPE	OPE
			41%
		OPEs	OPEs



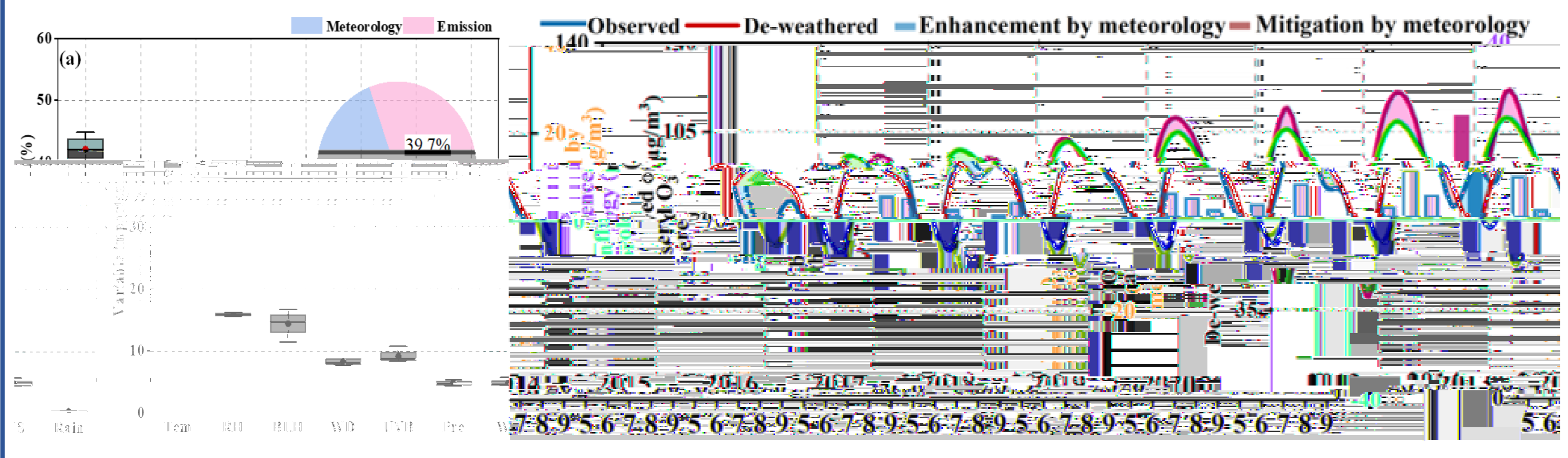
2013-2022

Ox=O₃+NO₂ MDA8 8
Inc min

2013-2020	MDA8 O ₃	O ₃	3.7	2.9	g/m ³ /yr	
	Ox	0.2				HCHO
		O ₃				Ox
		NO				O ₃
		O ₃				Ox
	NO ₂					HCHO
		VOCs				
	NOx					



2013-2020



2013-2020

1. Contrasting effects of clean air actions on surface ozone concentrations in different regions over Beijing from May to September 2013-2020. The Science of the total environment, 2023, 166182;
2. Comprehensively exploring the characteristics and meteorological causes of ozone pollution events in Beijing during 2013-2020, Atmospheric Research, 2023, accepted