

Supporting information for

Mechanisms and Quantification: How Anthropogenic Aerosols Weaken the East Asian Summer Monsoon

Yiwen Lang¹, Jing Zhang^{1,*}, Jin Zhao¹, Yuhang Gong², Tian Han¹, Xiaoqing
Deng¹, Yuqing Liu¹

¹ Faculty of Geographical Science, Beijing Normal University, Beijing 100875, China

² Chinese Academy of Meteorological Sciences, Beijing 100081, China

*Corresponding author: Jing Zhang

Email: jingzhang@bnu.edu.cn

Supplementary Tables

Table S1 Basic information of 38 CMIP6 models used in the study.

Index	Model	Affiliation and Country	lon $\times$ lat
1	ACCESS-CM2	CSIRO/ Australia	1.875° $\times$ 1.241°
2	ACCESS-ESM1-5	CSIRO/ Australia	1.875° $\times$ 1.25°
3	AWI-CM-1-1-MR	AWI/ Germany	0.9375° $\times$ 0.9375°
4	AWI-ESM-1-1-LR	AWI/ Germany	1.875° $\times$ 1.875°
5	BCC-CSM2-MR	BCC/ China	1.125° $\times$ 1.125°
6	BCC-ESM1	BCC/ China	2.8125° $\times$ 2.8125°
7	CAMS-CSM1-0	CAMS/ China	1.125° $\times$ 1.125°
8	CanESM5	CCCma/ Canada	2.8125° $\times$ 2.8125°
9	CanESM5-1	CCCma/ Canada	2.8125° $\times$ 2.8125°
10	CAS-ESM2-0	CAS/ China	1.40625° $\times$ 1.40625°
11	CESM2	NCAR/ USA	1.25° $\times$ 0.9375°
12	CESM2-FV2	NCAR/ USA	2.5° $\times$ 1.875°
13	CESM2-WACCM	NCAR/ USA	1.25° $\times$ 0.9375°
14	CESM2-WACCM-FV2	NCAR/ USA	2.5° $\times$ 1.875°
15	CMCC-CM2-HR4	CMCC/ Italy	1.25° $\times$ 0.9375°
16	CMCC-CM2-SR5	CMCC/ Italy	1.25° $\times$ 0.9375°
17	CMCC-ESM2	CMCC/ Italy	1.25° $\times$ 0.9375°
18	E3SM-2-0	E3SM-Project/ USA	1° $\times$ 1°
19	FGOALS-g3	CAS/ China	2° $\times$ 2.25°
20	FIO-ESM-2-0	FIO-QLNM/ China	1.25° $\times$ 0.9375°
21	GFDL-ESM4	NOAA-GFDL/USA	1.25° $\times$ 1°
22	GISS-E2-1-G	NASA-GISS/ USA	2.5° $\times$ 2°
23	GISS-E2-1-H	NASA-GISS/ USA	2.5° $\times$ 2°
24	GISS-E2-2-G	NASA-GISS/ USA	2.5° $\times$ 2°
25	GISS-E2-2-H	NASA-GISS/ USA	2.5° $\times$ 2°
26	IITM-ESM	CCCR-IITM/ India	1.875° $\times$ 1.915°
27	IPSL-CM6A-LR	IPSL/France	2.5° $\times$ 1.267606°
28	MCM-UA-1-0	UA/ USA	3.75° $\times$ 2.25°
29	MIROC6	MIROC/ Japan	1.40625° $\times$ 1.40625°

30	MPI-ESM1-2-HAM	HAMMOZ-Consortium/ Switzerland	$1.875^{\circ} \times 1.875^{\circ}$
31	MPI-ESM1-2-HR	MPI-M/ Germany	$0.9375^{\circ} \times 0.9375^{\circ}$
32	MPI-ESM1-2-LR	MPI-M/ Germany	$1.875^{\circ} \times 1.875^{\circ}$
33	MRI-ESM2-0	MRI/Japan	$1.125^{\circ} \times 1.125^{\circ}$
34	NESM3	NUIST/China	$1.875^{\circ} \times 1.875^{\circ}$
35	NorCPM1	NCC/ Norway	$2.5^{\circ} \times 1.875^{\circ}$
36	NorESM2-LM	NCC/Norway	$2.5^{\circ} \times 1.875^{\circ}$
37	NorESM2-MM	NCC/ Norway	$1.25^{\circ} \times 0.9375^{\circ}$
38	TaiESM1	AS-RCEC/ China	$1.25^{\circ} \times 0.9375^{\circ}$