2002~2020

E-mail: jiangdb@mail.iap.ac

1990 IPCC 30

IPCC

30

CMIP2 CMIP3 CMIP5

CMIP

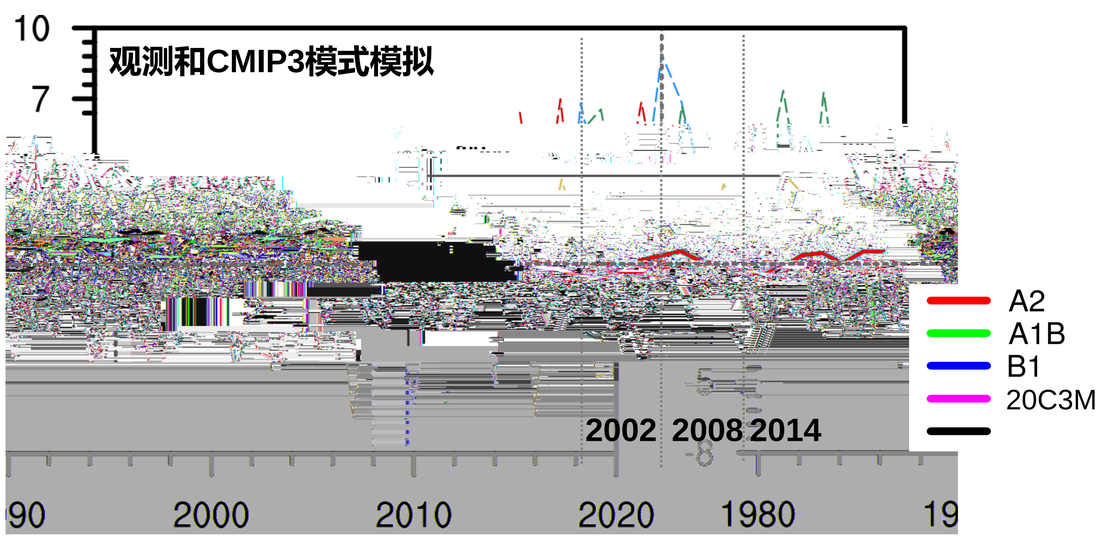
2002~2020 CMIP2 CMIP3 CMIP5

2002~2020 2008~2020 2014~2020

21 7

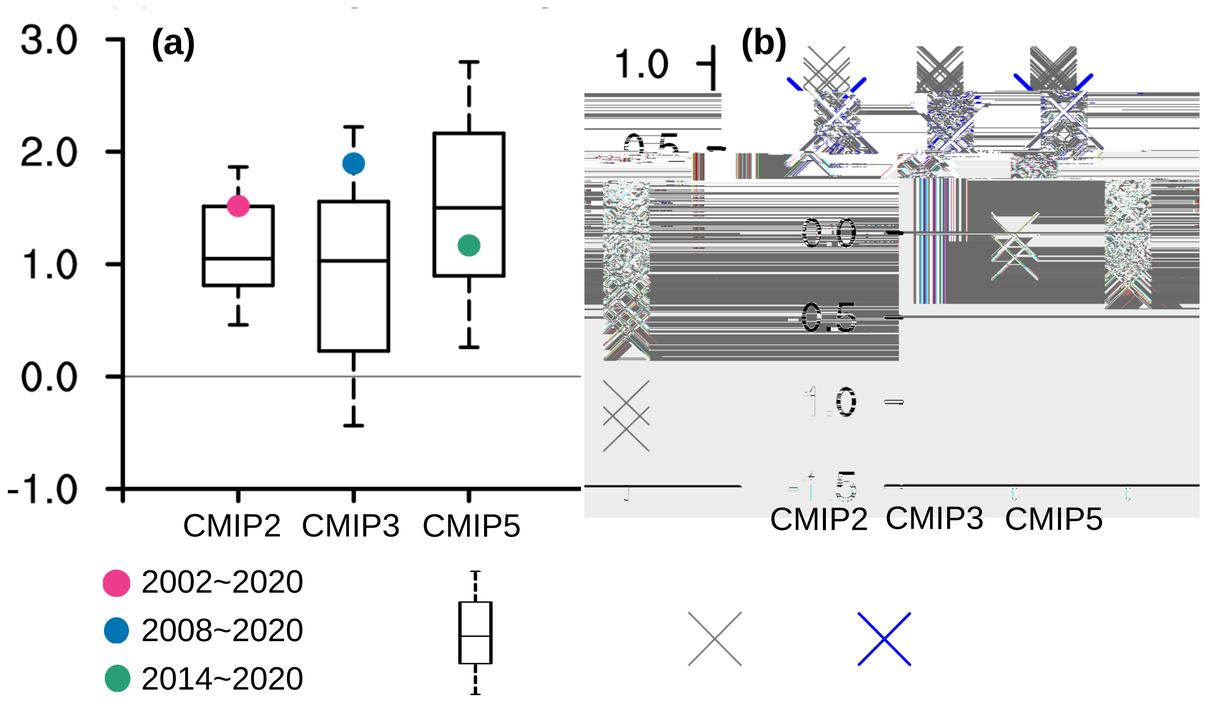
CMIP3 CMIP5 2008~2020

2014~2020



1. 1980~1999 CMIP3

%

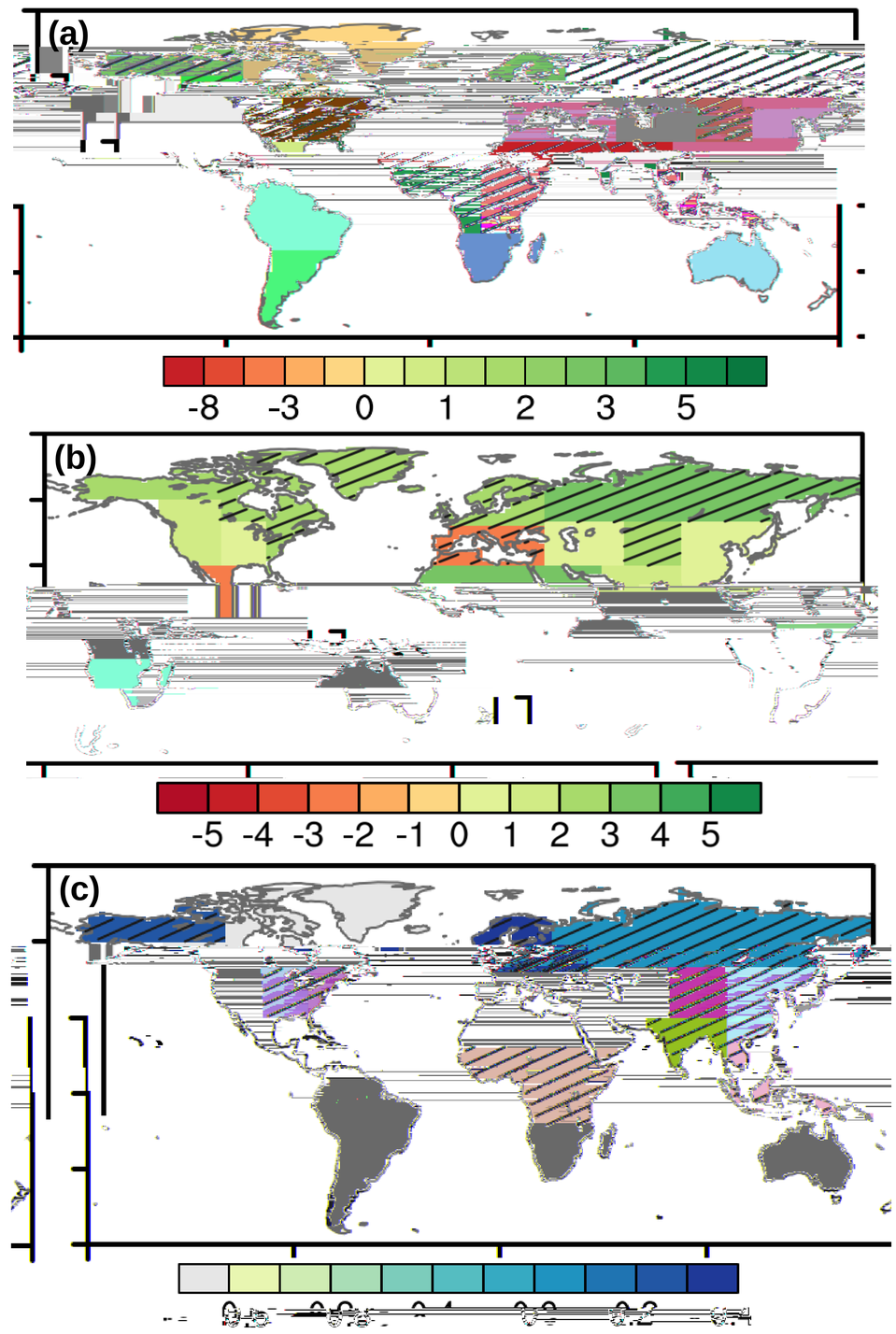


2. a 1980~1999 % b

0 1

CMIP2 CMIP3 CMIP5

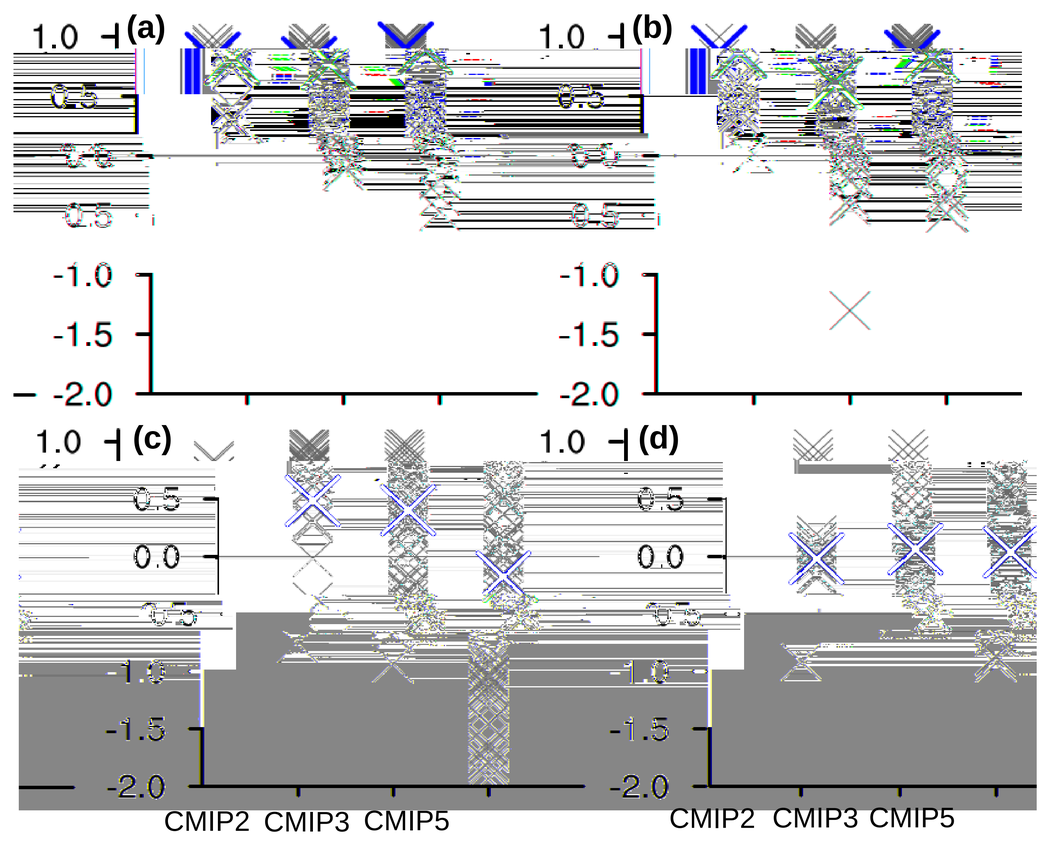
2002~2020 2008~2020 2014~2020



3. a b CMIP3 21 2008~2020

1980~1999 % c

21



4. a 60°N~90°N b 30°N~60°N c 30°S~30°N d

30°S~60°S

Hu, D., Tian, Z., Lang, X., & Jiang, D. (2023). Limited skill of projected land precipitation by IPCC models during 2002 2020. Journal of Geophysical Research: Atmospheres, 128(2), e2022JD037851