

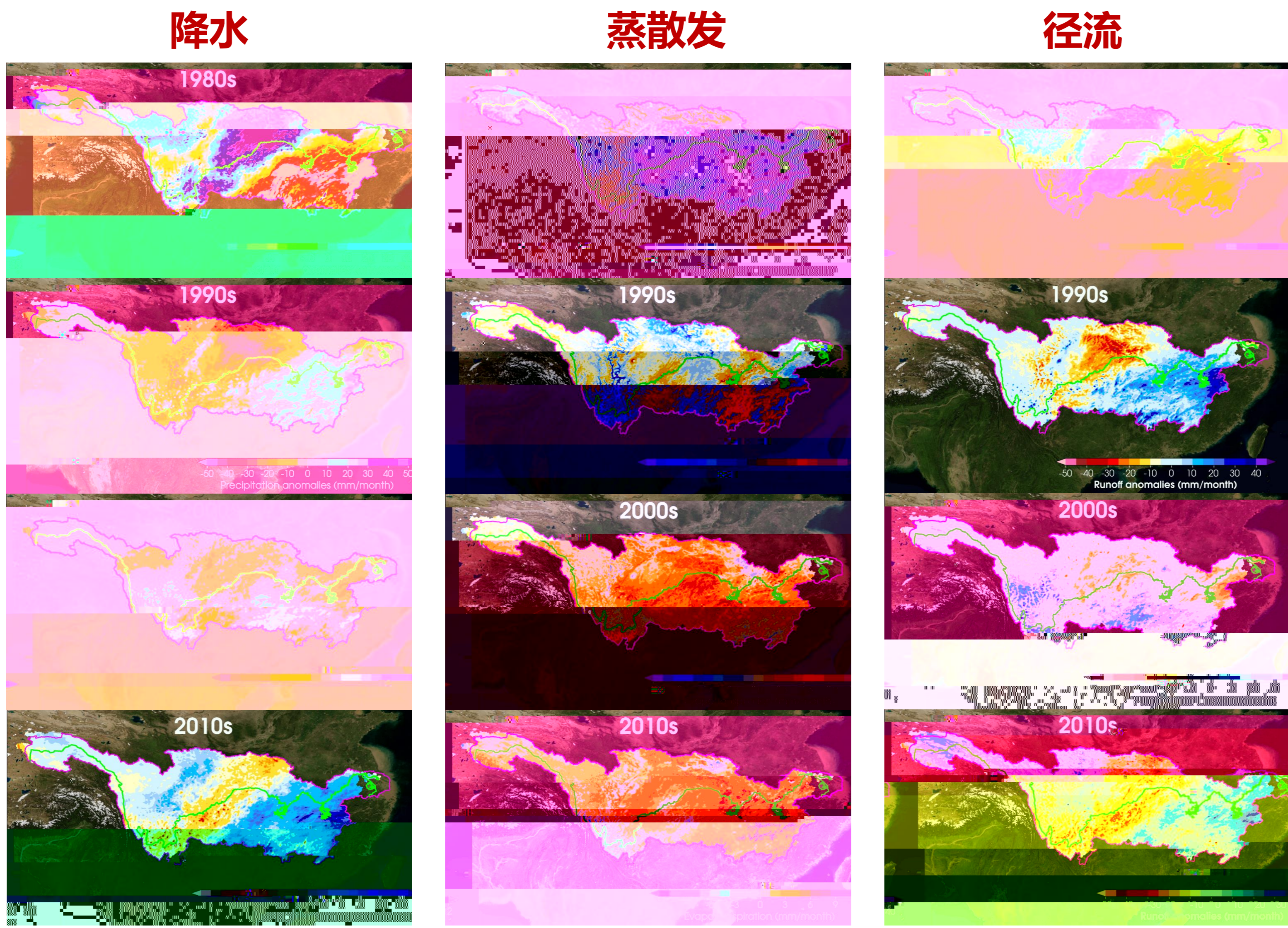


中国科学院大气物理研究所建所95周年  
IAP 95th Anniversary

# 基于耦合区域气候模



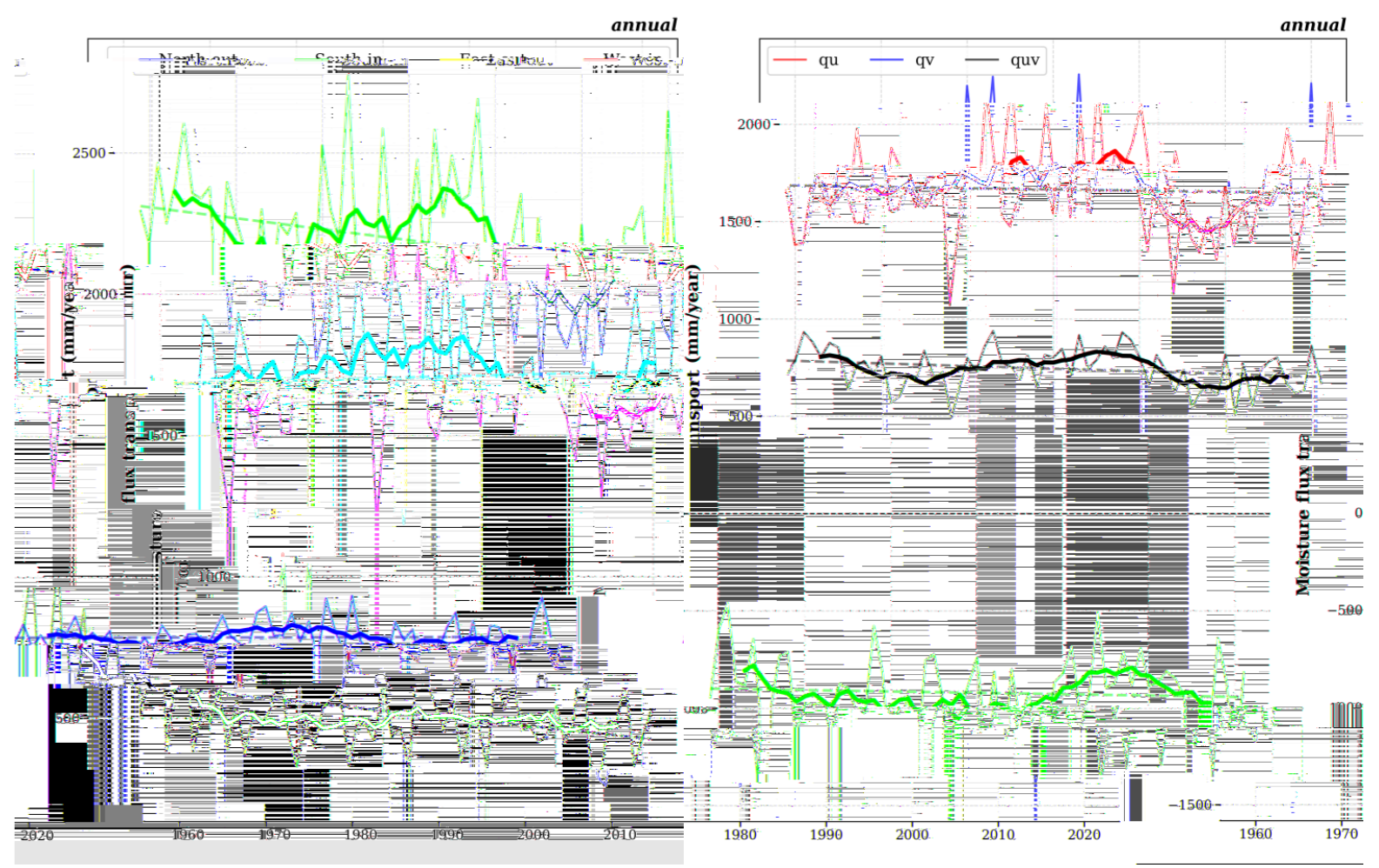
- 
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- 
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3



ERA5 1959  
1951-2020 70



7 1959-2021

2 1959-2021

水汽输送	均值 (mm)	趋势 (mm/10yr)
North-out	526.1	-32.3*
South-in	2191.0	-38.8*
East-out	1706.7	7.5
West-in	785.7	0.6
纬向(qu)	-921.0	-7.0
经向(qv)	1664.9	-6.5
总和(quv)	744.0	-13.5

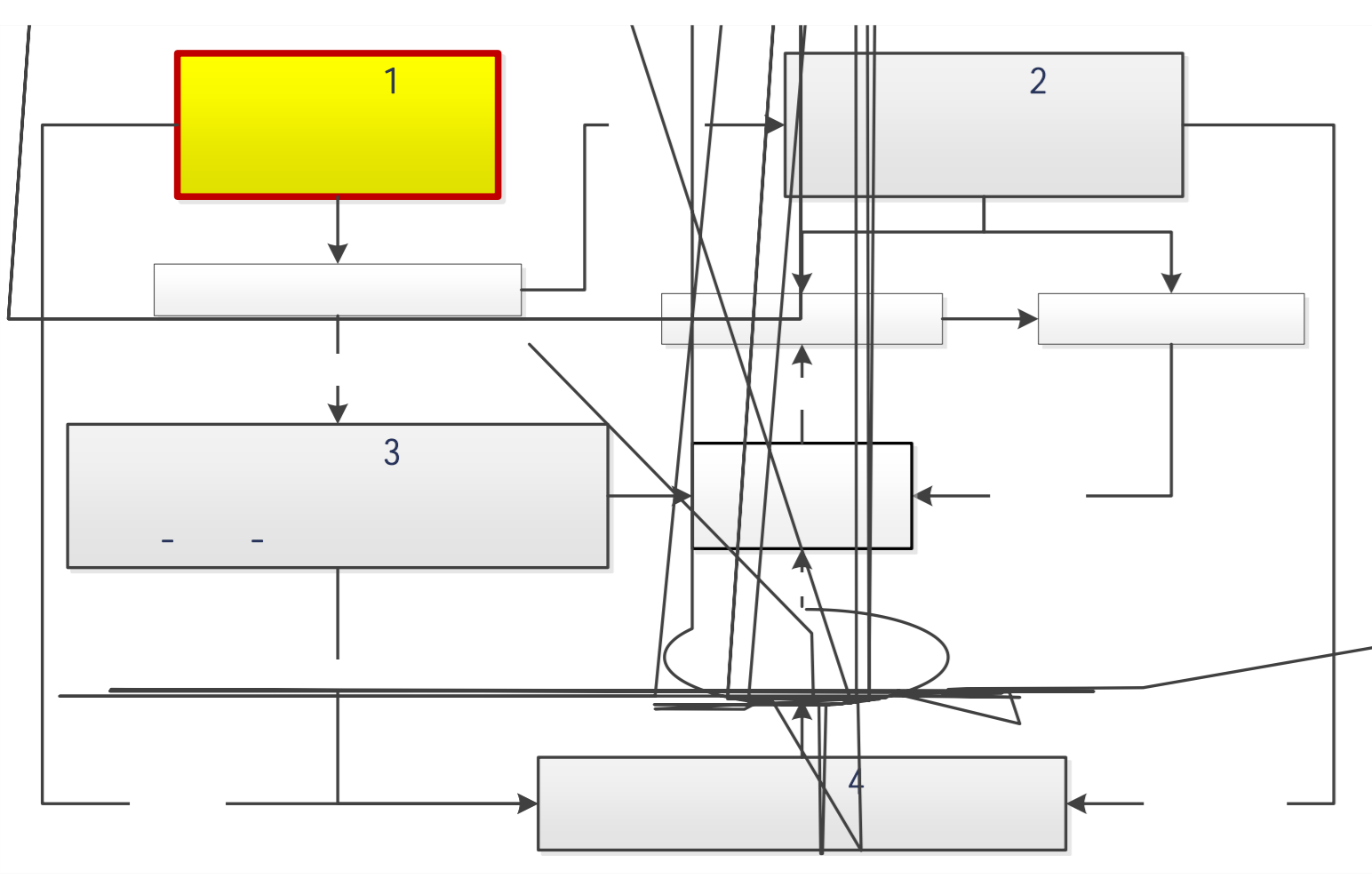
A

## 美丽中国生态文明建设科技工程

### 4 长江经济带干流水环境生态综合治理与应用

### 长江经济带干流水系统综合模拟与调控平台

### 长江水系统模拟的陆气耦合模型研究 (XDA23040501)



1



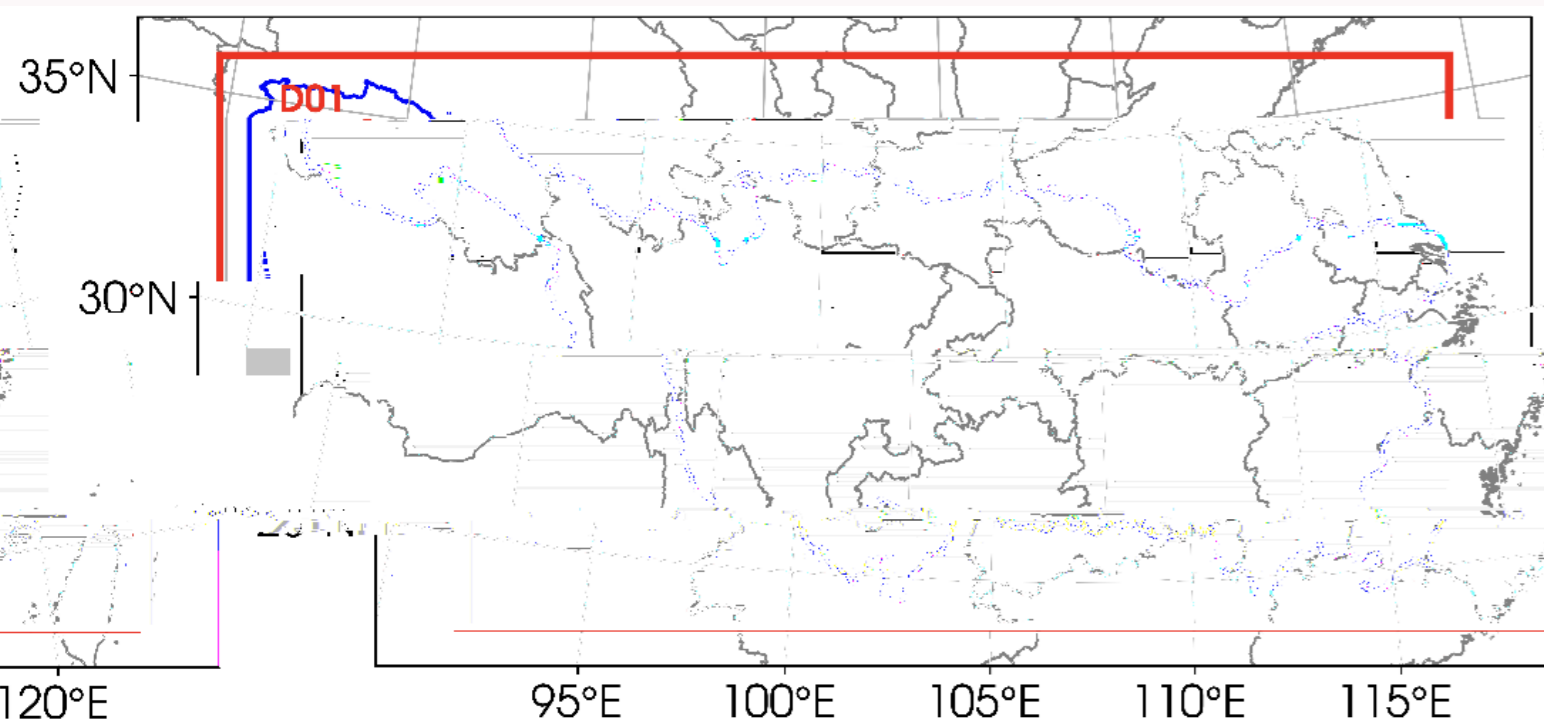
ERA-Interim WRF

6

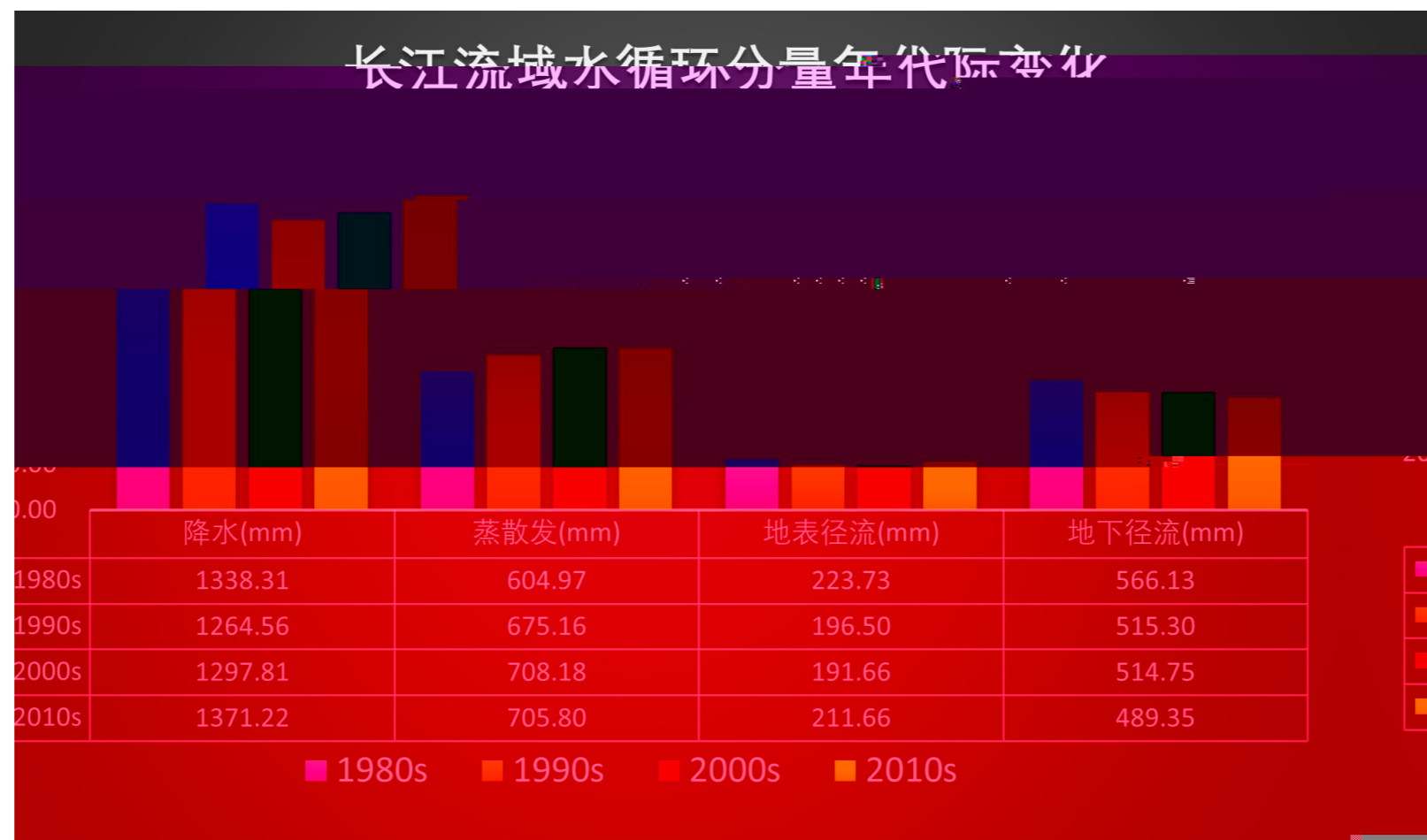
1980.1.1 2018.12.31

1

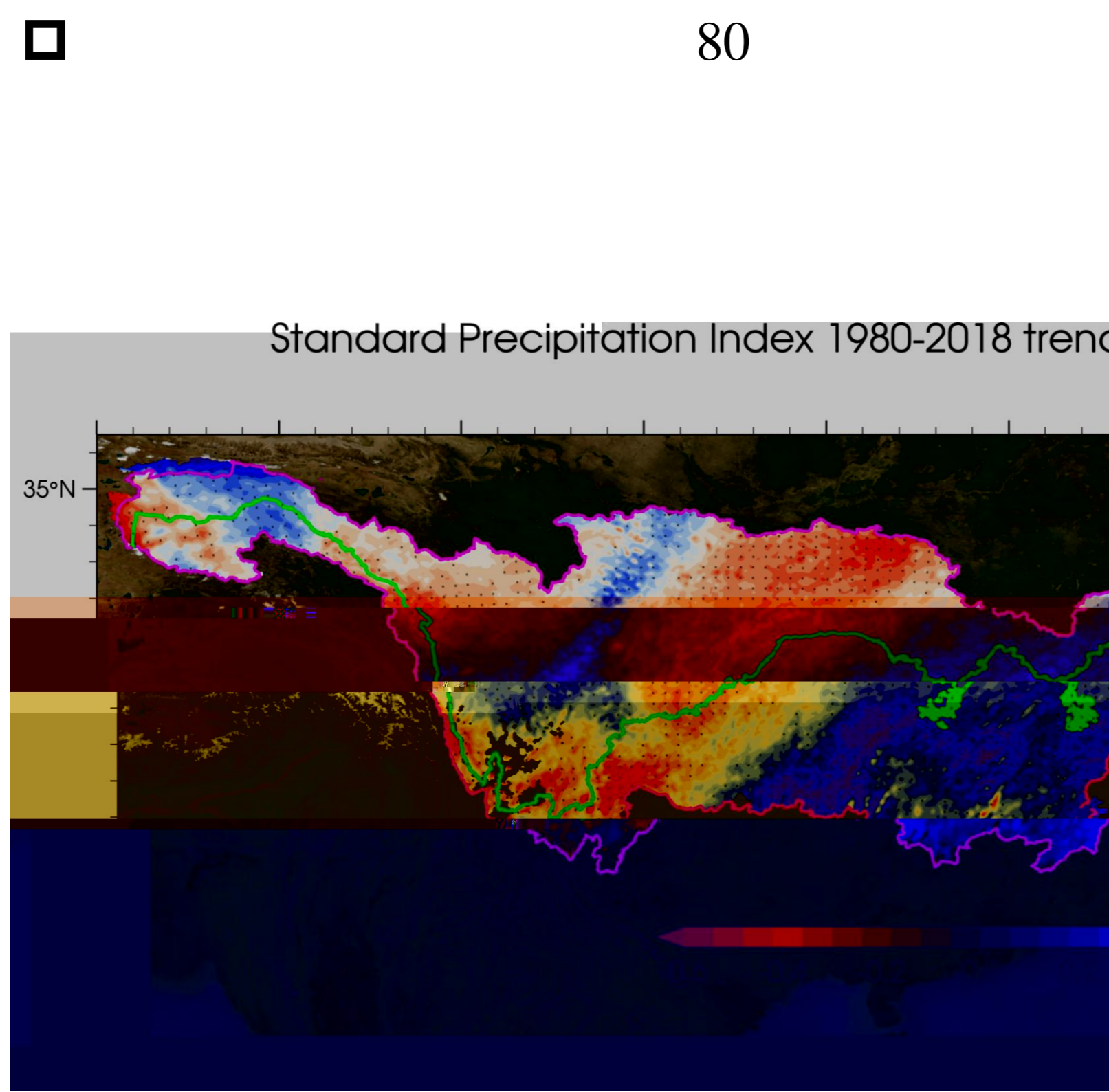
物理方案	方案选取
陆面过程	Noah-MP
微物理方案	Thompson scheme
长波方案	rrtmg scheme
短波方案	rrtmg scheme
边界层	Mellor-Yamada-Janjic TKE scheme



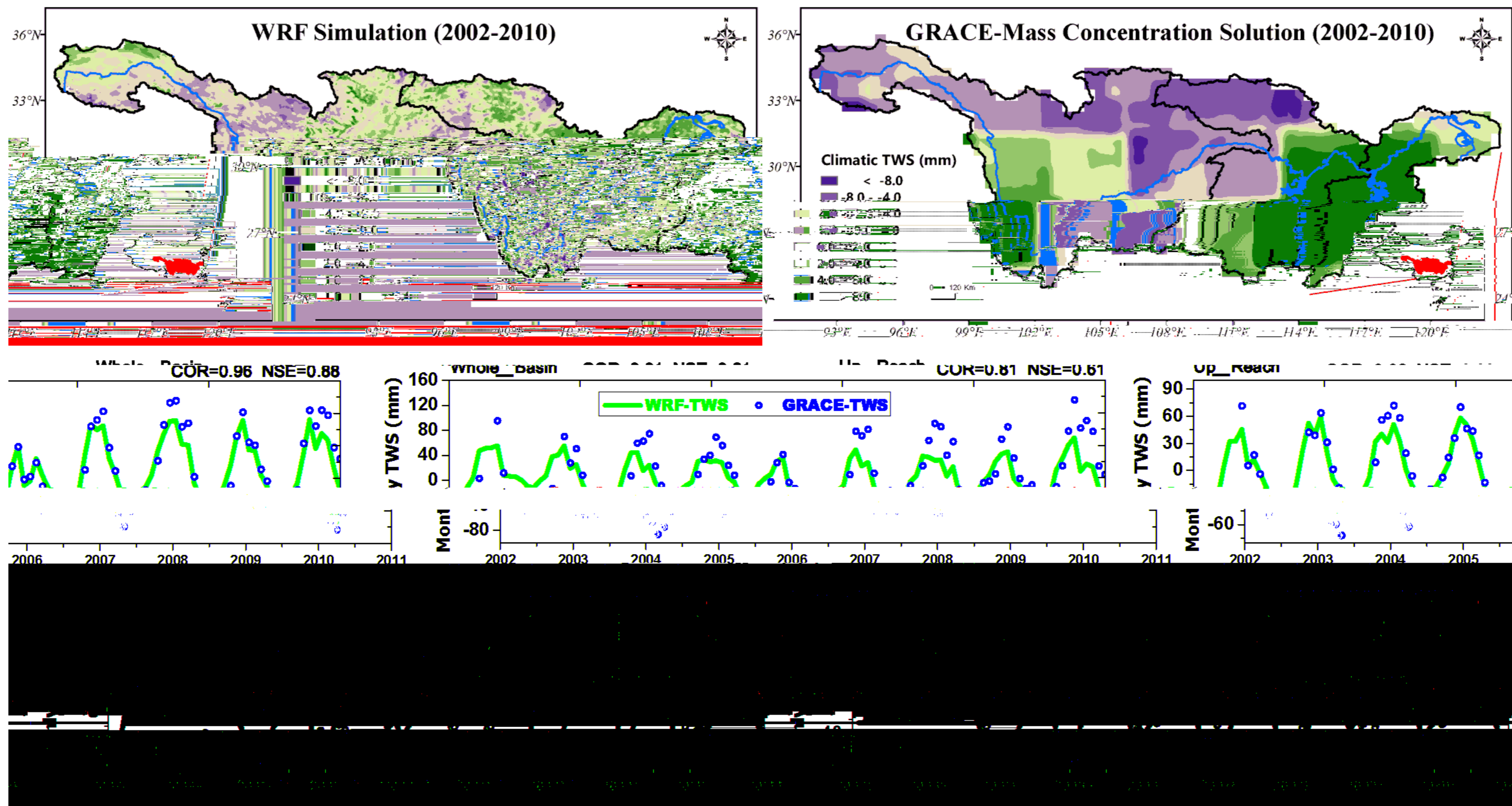
2



4



5 1980-2018 (SPI)



6 0.61 2006 0.81 NSE

□

0.61 2006

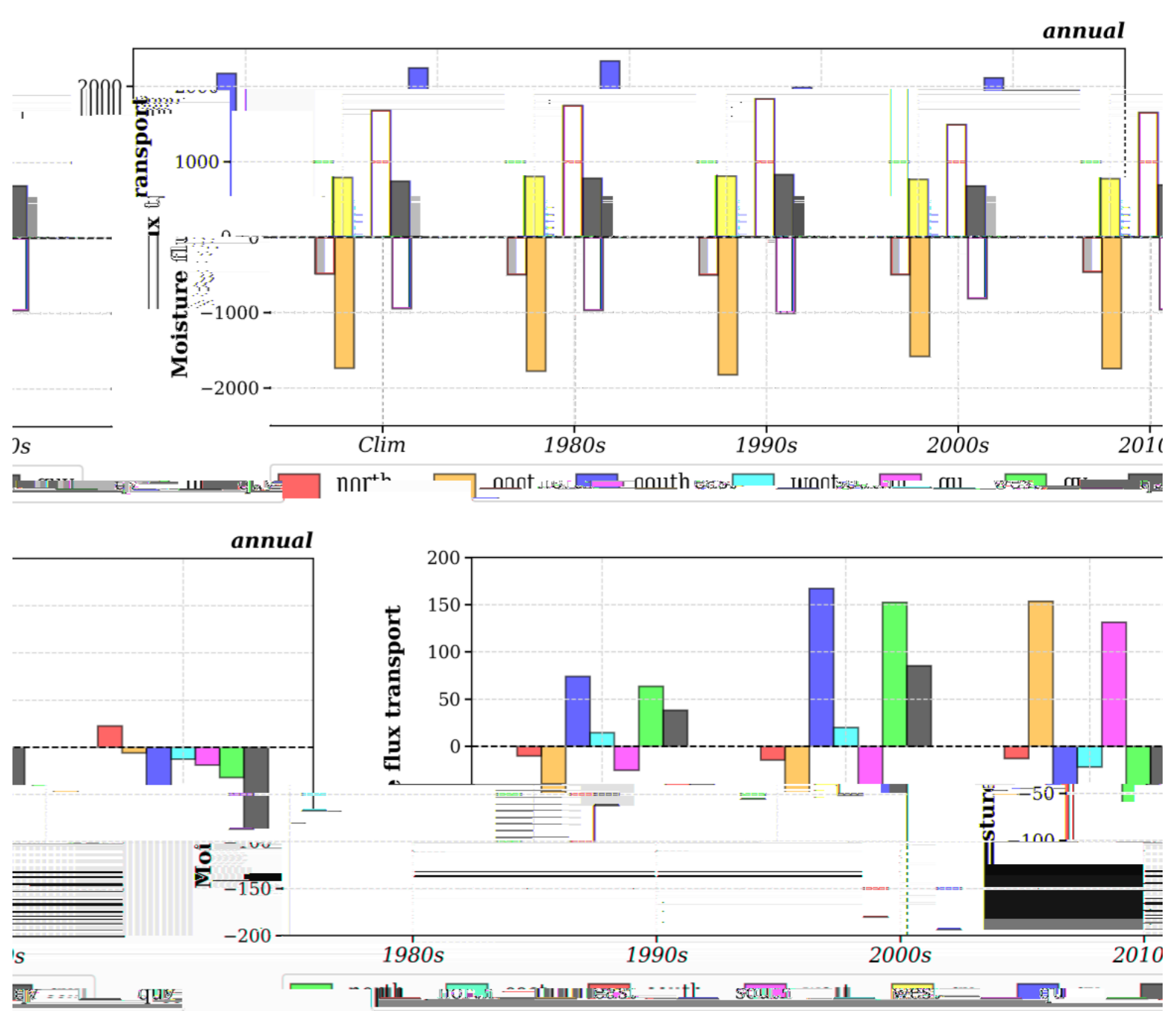
NSE 0.26

□ 80 90

□ 10

□ 80

□ 80



8

□

□

2000s

□ 1959-2021

□

□

PDO 90

PDO