



Supplement of

What caused the interdecadal shift in the El Niño–Southern Oscillation (ENSO) impact on dust mass concentration over northwestern South Asia?

Lamei Shi et al.

Correspondence to: Jiahua Zhang (zhangjh@radi.ac.cn)

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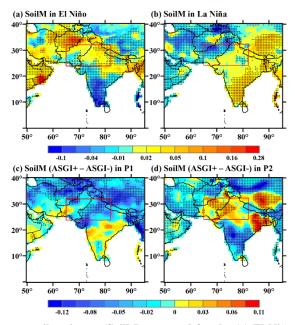
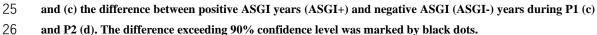


Figure S1: June to July mean soil moisture (SoilM) averaged for the (a) El Niño years, (b) La Niña years,





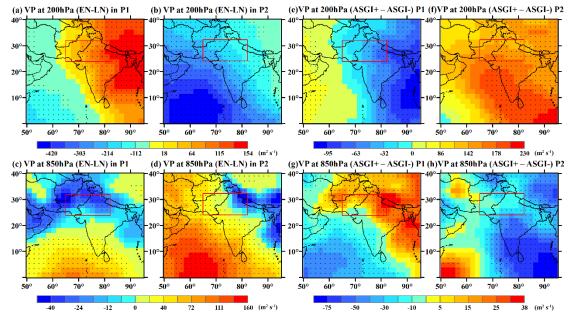
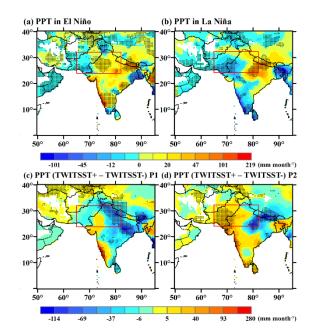


Figure S2: Difference of June to July mean velocity potential (VP) at 200hPa (a-b) and 850hPa (c-d) between El Niño (EN) and La Niña (LN) years during P1 and P2. Difference of June to July mean velocity potential (VP) at 200hPa (e-f) and 850hPa (g-h) between ASGI+ and ASGI- years during P1 and P2. The

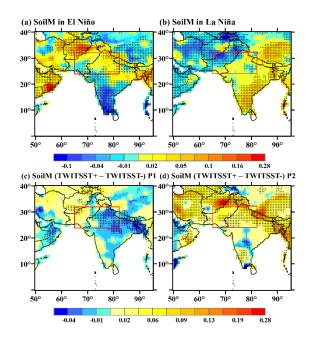
difference exceeding 90% confidence level was marked by black dots.



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33 Figure S3: June to July mean precipitation (PPT) averaged for the (a) El Niño years, (b) La Niña years, and

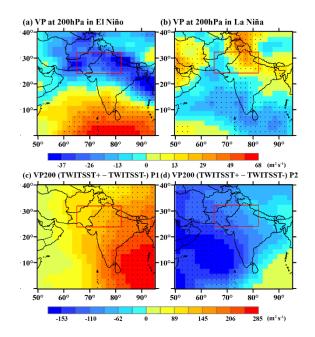
- 34 (c) the difference between positive TWISST years (TWISST+) and negative TWISST (TWISST-) years
- 35 during P1 (c) and P2 (d). The difference exceeding 90% confidence level was marked by black dots.



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37 Figure S4: June to July mean SoilM averaged for the (a) El Niño years, (b) La Niña years, and (c) the

- 38 difference between TWISST+ and TWISST- years during P1 (c) and P2 (d). The difference exceeding 90%
- 39 confidence level was marked by black dots.



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41 Figure S5: June to July mean VP averaged for the (a) El Niño years, (b) La Niña years, and (c) the

42 difference between TWISST+ and TWISST- years during P1 (c) and P2 (d). The difference exceeding 90%

43 confidence level was marked by black dots.

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