



Supplement of

Competing effects of aerosol reductions and circulation changes for future improvements in Beijing haze

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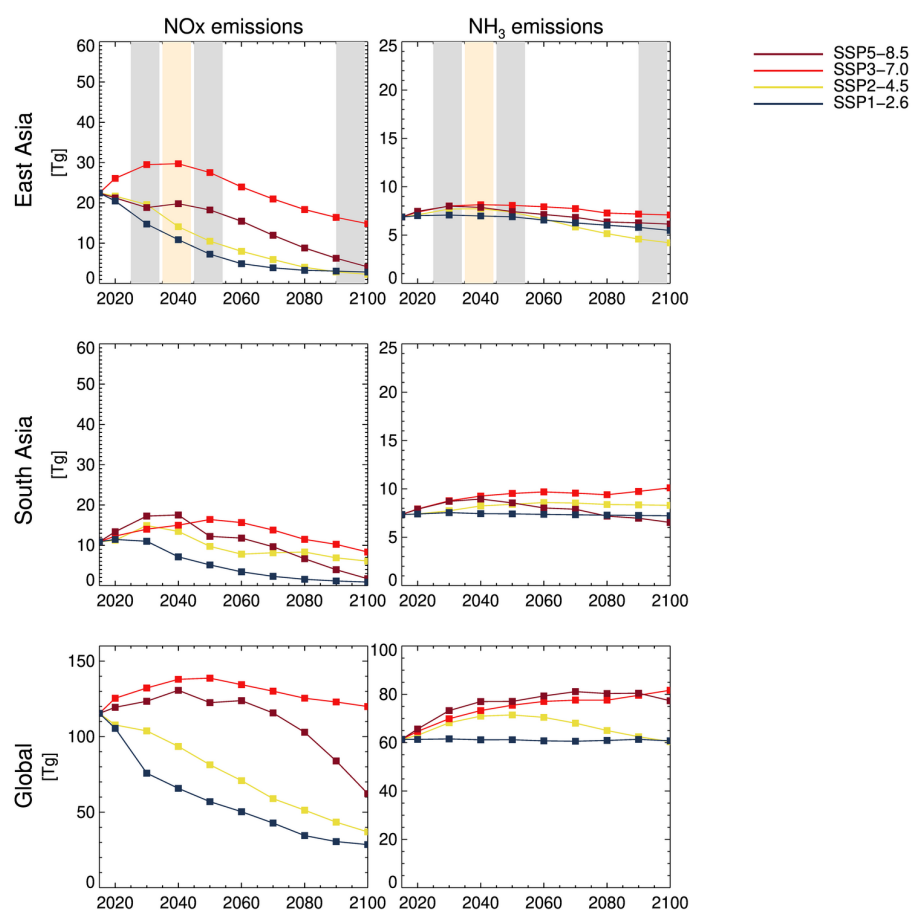


Figure S1. Time series of total emissions for NO_x and NH₃ in SSPs 1-2.6, 2-4.5, 3-7.0 and 5-8.5 from East Asia, South Asia and global mean.

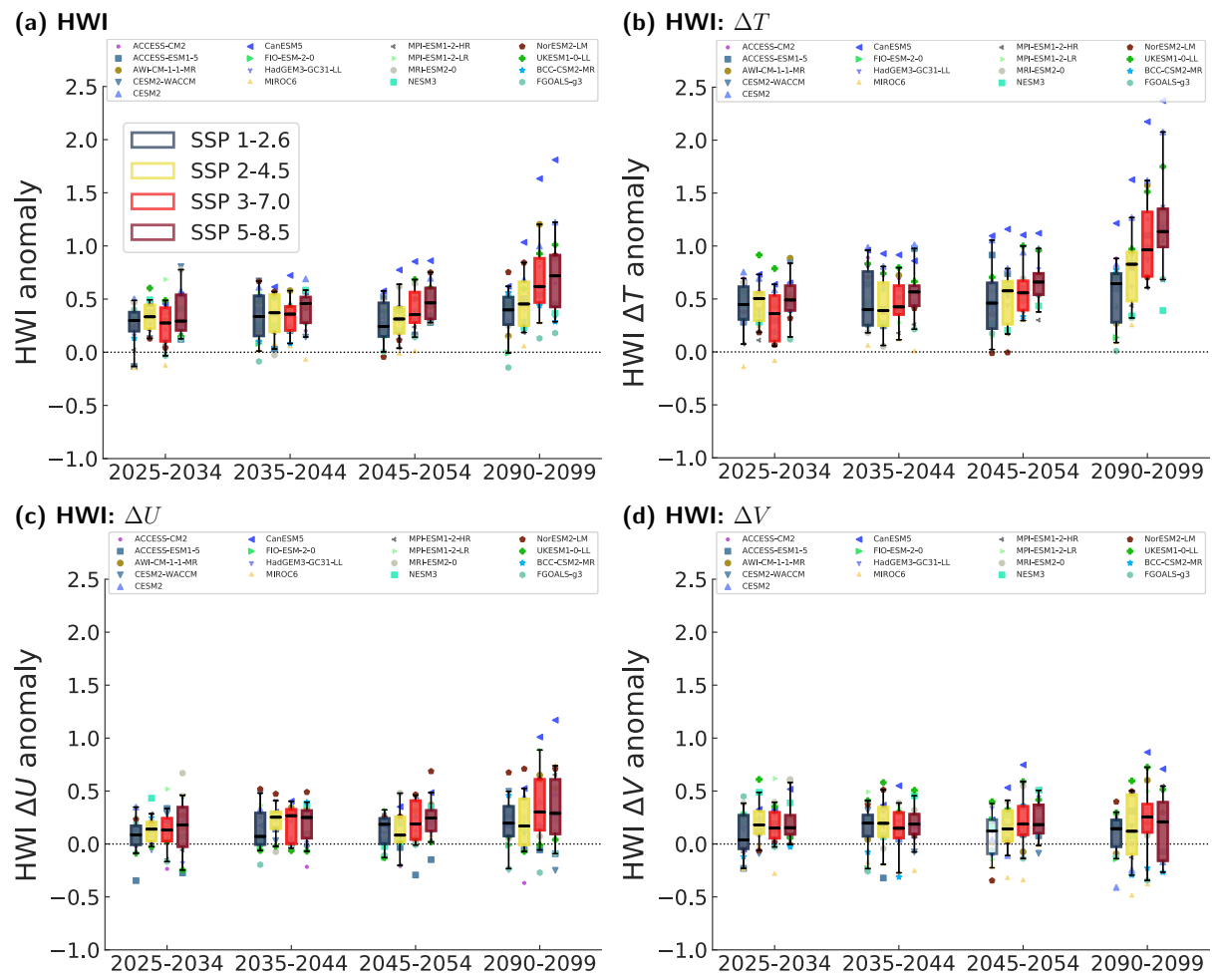


Figure S2. (a) A reproduction of Figure 4a and (b, c, d) HWI components illustrated in the same way.

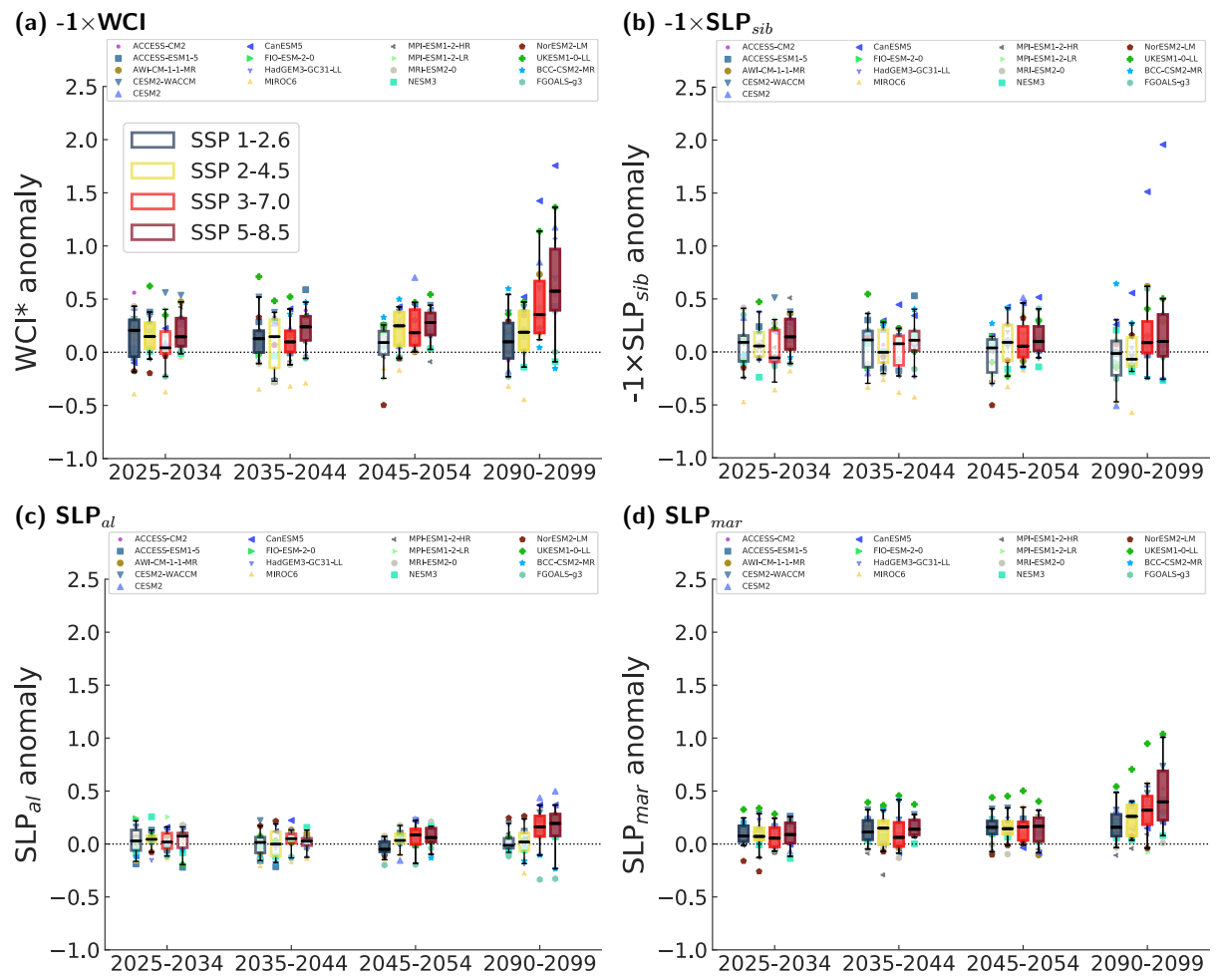
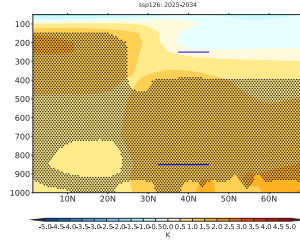
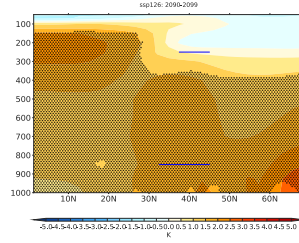


Figure S3. (a) A reproduction of Figure 4b and (b, c, d) WCI components illustrated in the same way.

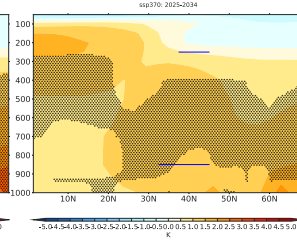
**(a) SSP1-2.6: ΔT :
2025~2034**



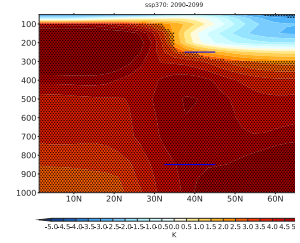
**(b) SSP1-2.6: ΔT :
2090~2099**



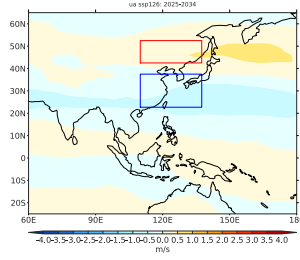
**(c) SSP3-7.0: ΔT :
2025~2034**



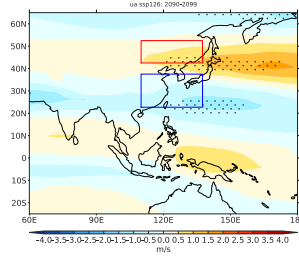
**(d) SSP3-7.0: ΔT :
2090~2099**



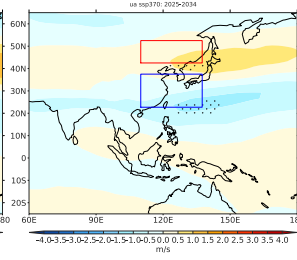
**(e) SSP1-2.6: $\Delta U@500$:
2025~2034**



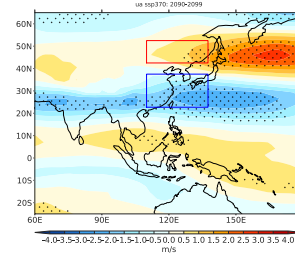
**(f) SSP1-2.6: $\Delta U@500$:
2090~2099**



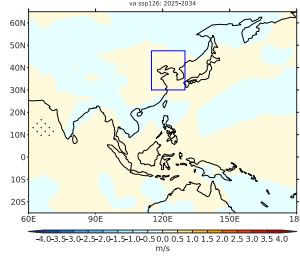
**(g) SSP3-7.0: $\Delta U@500$:
2025~2034**



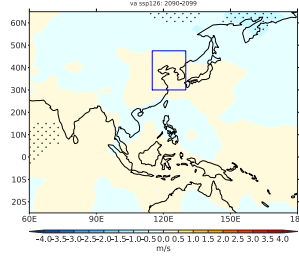
**(h) SSP3-7.0: $\Delta U@500$:
2090~2099**



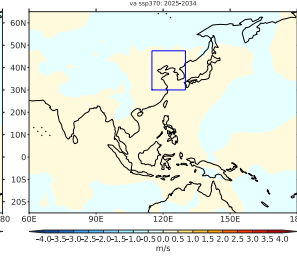
**(i) SSP1-2.6: $\Delta V@850$:
2025~2034**



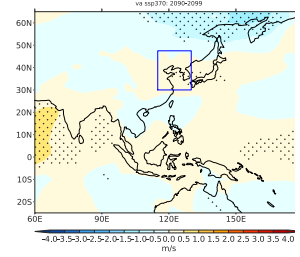
**(j) SSP1-2.6: $\Delta V@850$:
2090~2099**



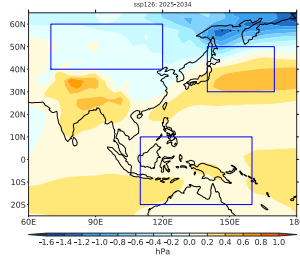
**(k) SSP3-7.0: $\Delta V@850$:
2025~2034**



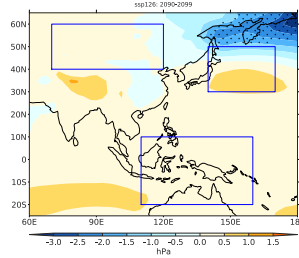
**(l) SSP3-7.0: $\Delta V@850$:
2090~2099**



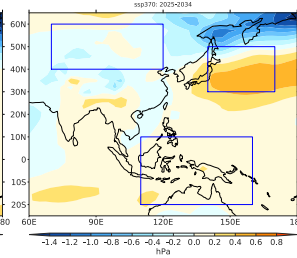
**(m) SSP1-2.6: ΔSLP :
2025~2034**



**(n) SSP1-2.6: ΔSLP :
2090~2099**



**(o) SSP3-7.0: ΔSLP :
2025~2034**



**(p) SSP3-7.0: ΔSLP :
2090~2099**

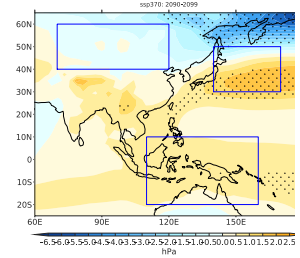


Figure S4. Differences in T , U , V and SLP between future scenarios and present-day. Scenarios shown are SSPs1-2.6 and 3-7.0. Periods chosen are near future (2025-2034) and the end of the 21st century (2090-2099). Difference that is above 90% confidence level is stippled. Boxes indicate areas from which averaged values are used to compute HWI and WCI.