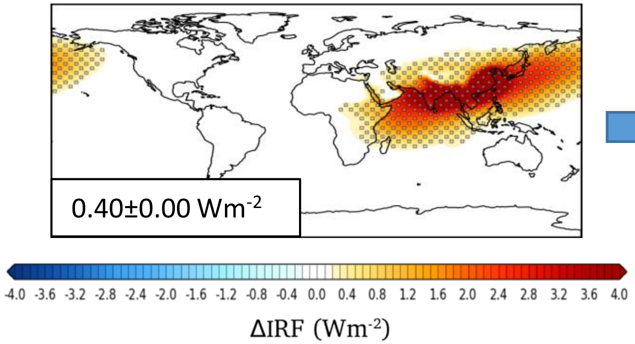
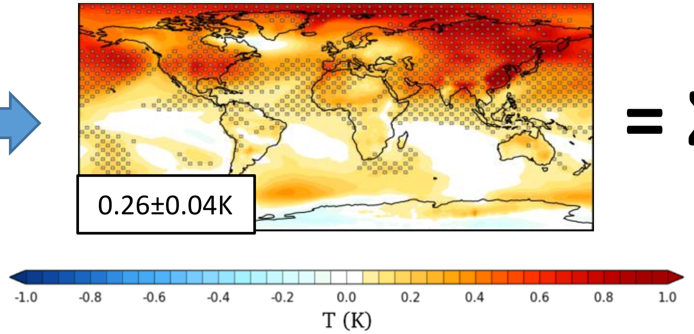
# *Decomposing local and remote surface temperature impacts of Asian aerosols*

- We removed *identically* modelled South and East Asian anthropogenic aerosols from ECHAM6.1 and NorESM1
- We used a novel method to decompose the temperature response to different components

## Model-mean Forcing

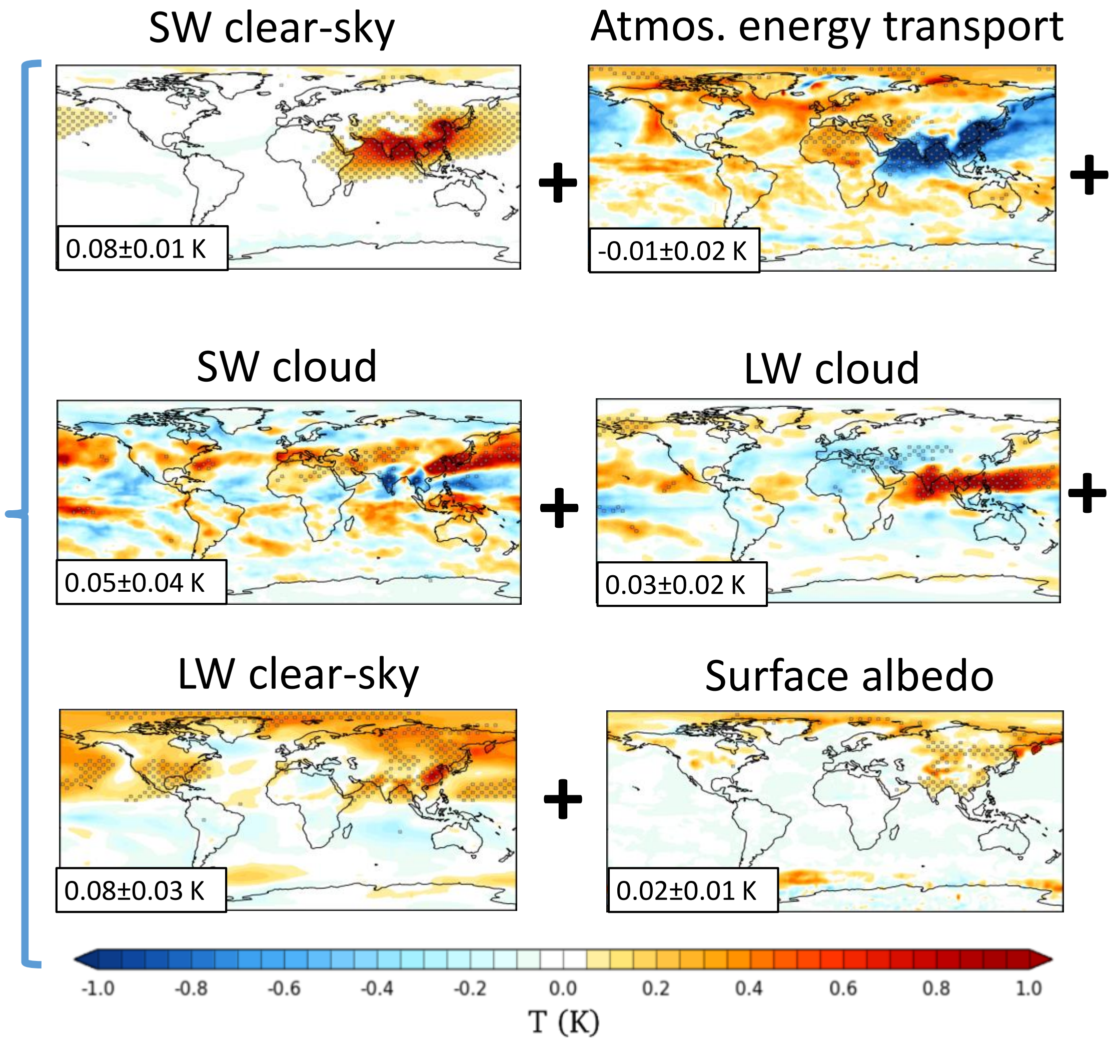



## Temperature response




= Σ

## Components of model-mean temperature response




*Merikanto, J., Nordling, K., Räisänen, P., Räisänen, J., O'Donnell, D., Partanen, A.-I., and Korhonen, H.: How Asian aerosols impact regional surface temperatures across the globe, Atmos. Chem. Phys., 21, 5865–5881, https://doi.org/10.5194/acp-21-5865-2021, 2021.*