



*Supplement of*

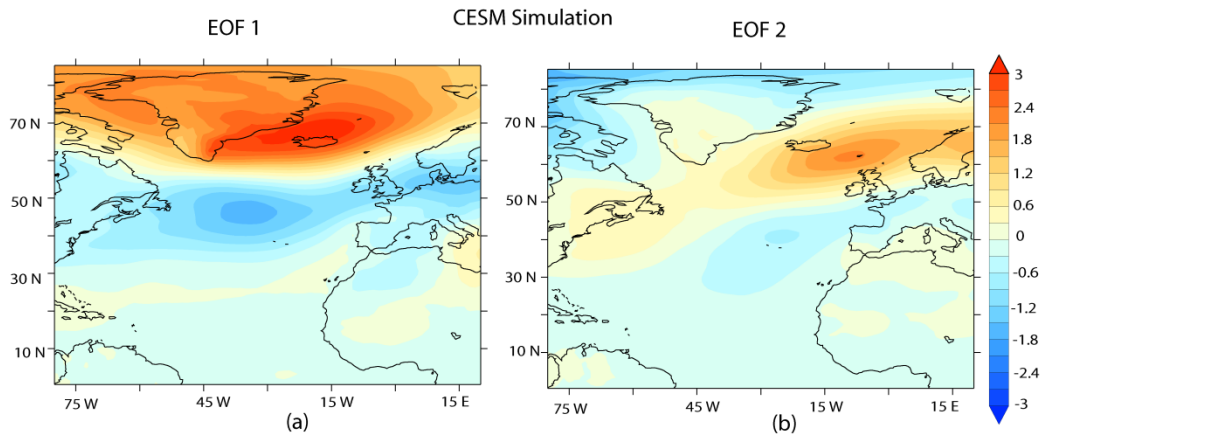
## **Is the Atlantic Ocean driving the recent variability in South Asian dust?**

**Priyanka Banerjee et al.**

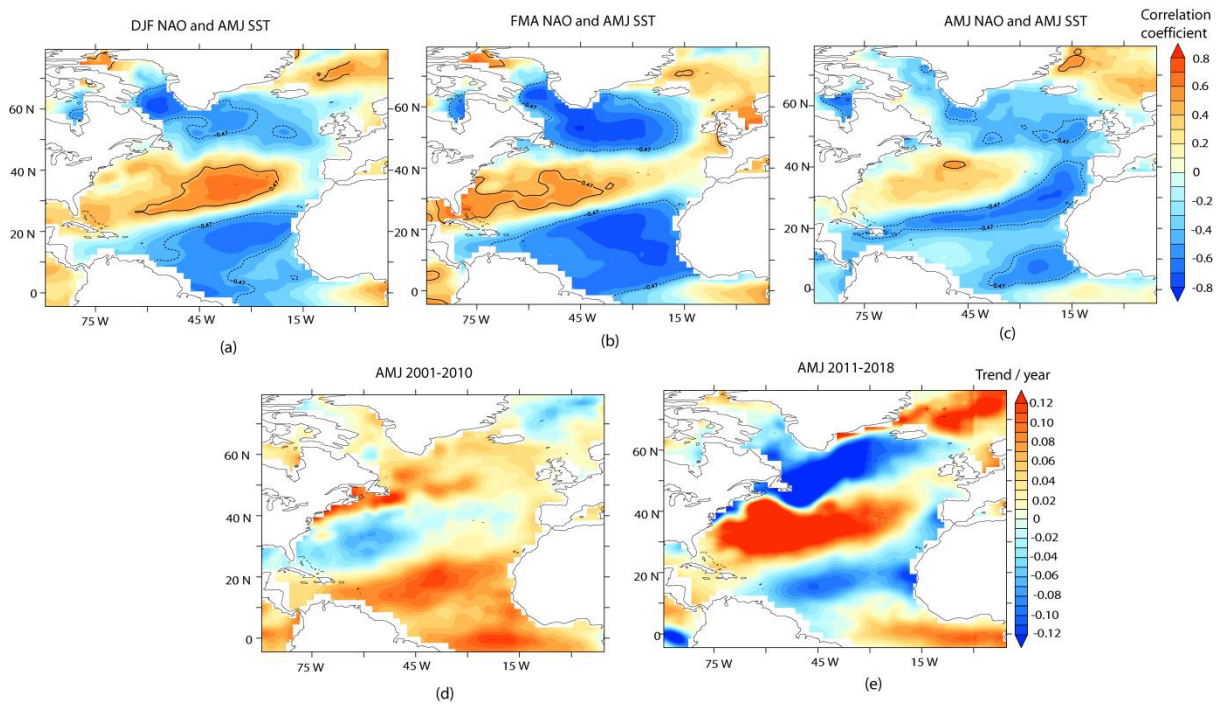
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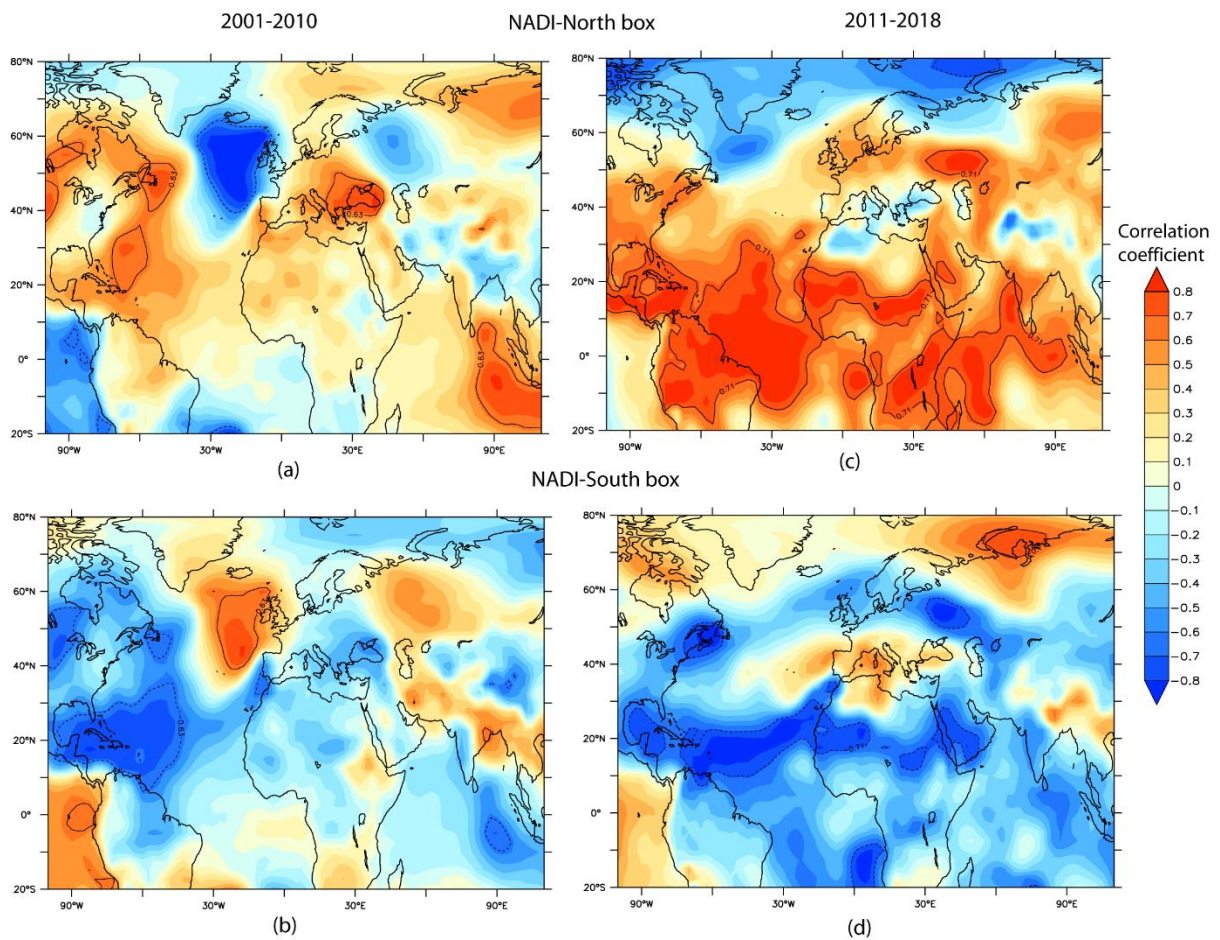
## Supplementary Information



**Fig. S1** EOFs of summer sea level pressure constructed using CESM Ctrl simulation for model years 0006-0015. EOF1 shows the summer NAO pattern and EOF2 shows SEA pattern.



**Fig. S2** Correlation between April-June North Atlantic SST and NAO index for (a) December-February, (b) February-April and (c) April-June for 2001-2018. Continuous (dashed) contours enclose the regions which have positive (negative) correlation coefficients significant at 95% confidence level. (d) and (e) Trends in April-June SST over the North Atlantic for 2001-2010 and 2011-2018.



**Fig. S3** Correlation between (a) and (c) the northern box of April-June NADI and May-September SLP and (b) and (d) the southern box of April-June NADI and May-September SLP. The correlations for 2001-2010 are shown in the left panels and those for 2011-2018 are shown the right panels. Continuous (dashed) contours enclose the areas having significant positive (negative) correlations at 95% level.