Supplementary Information
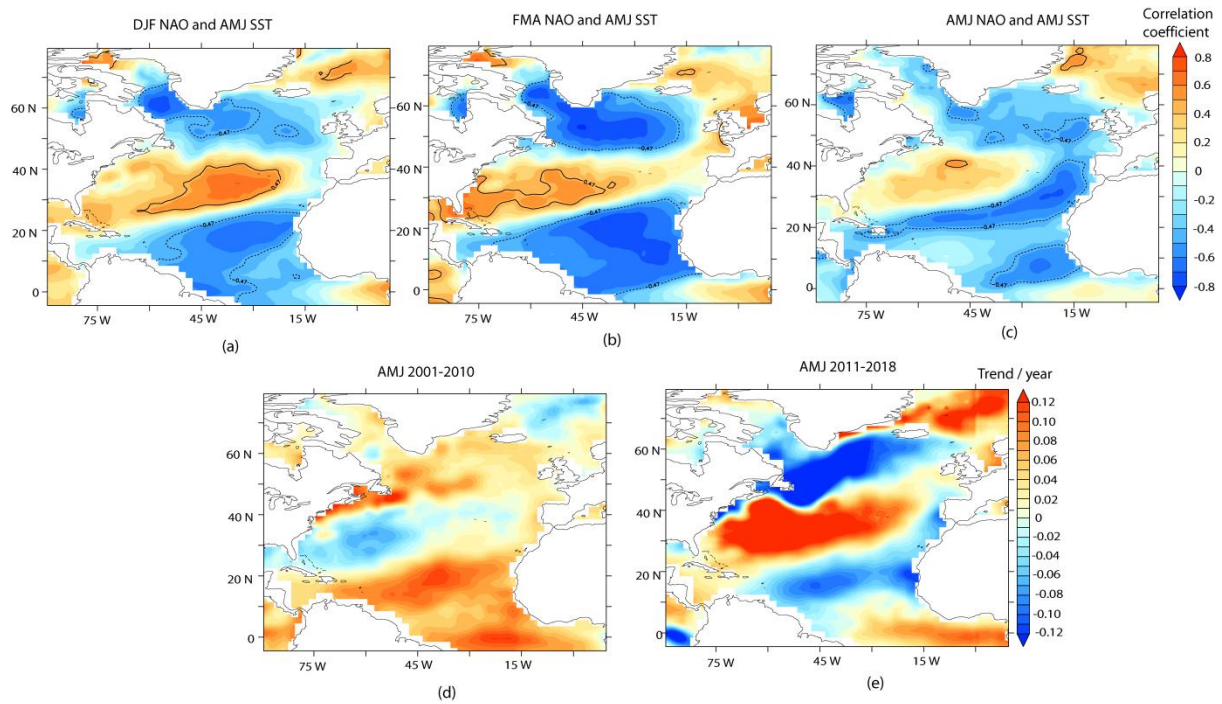
Fig. S1 Correlation between April-June North Atlantic SST and NAO index for (a) December-February, (b) February-April and (c) April-June for 2001-2018. Continuous (dashed) contours enclose the regions which have positive (negative) correlation coefficients significant at 95% confidence level. (d) and (e) Trends in April-June SST over the North Atlantic for 2001-2010 and 2011-2018.
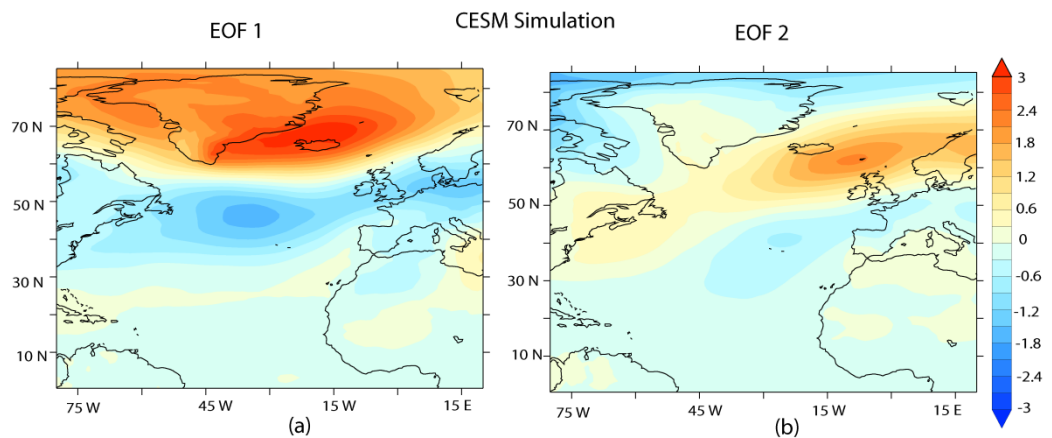
Fig. S2 EOFs of summer sea level pressure constructed using CESM Ctrl simulation for model years 0006-0015. EOF1 shows the summer NAO pattern and EOF2 shows SEA pattern.