



**AMS**  
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## Supplemental Material

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## Supplementary material

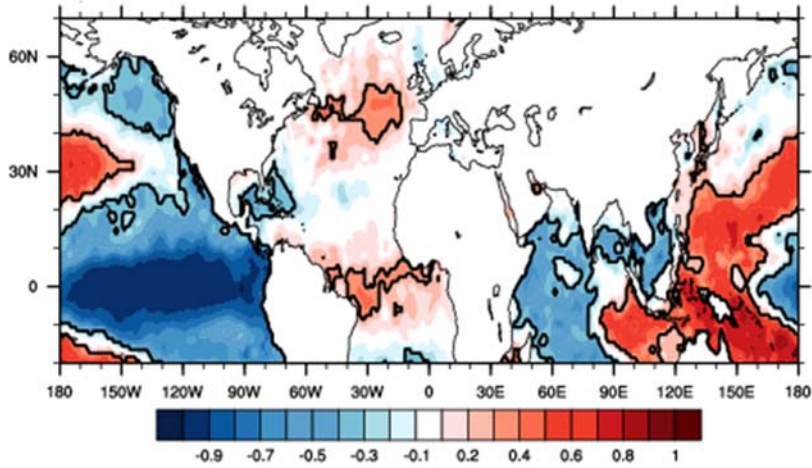


Figure S1. Correlation of SST anomalies with the La Niña SST index in November. The sign has been changed for easier comparison with Fig. 3. The black contour indicates 10% significance.

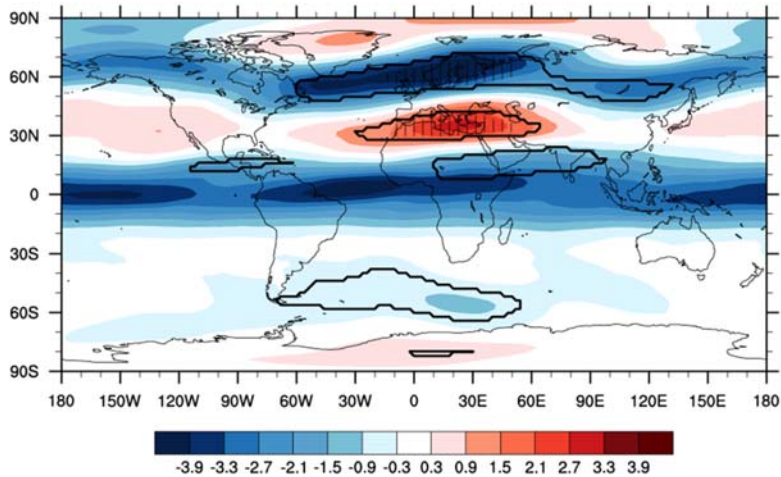


Figure S2. Multiple regression of the zonal wind at 50 hPa in January on the SIC index in December. The contours indicate 10% significance and hatching significance based on a FDR of 10% in the NA-EA sector.

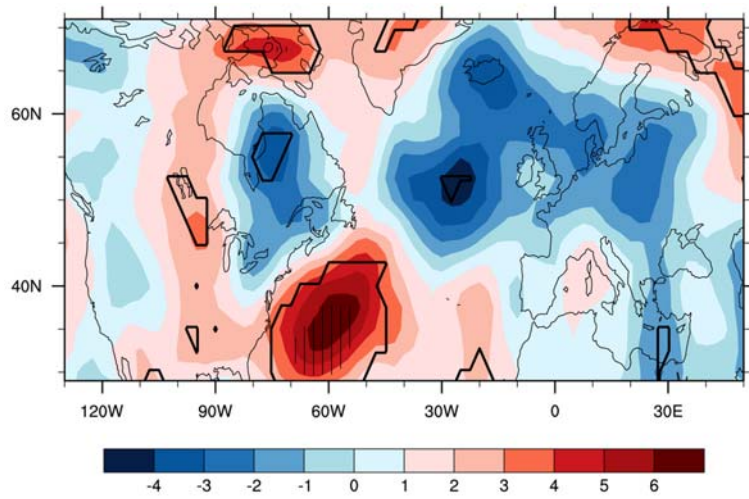


Figure S3. Multiple regression of the storm track variance (in  $m^2$ ) in January on the SIC index in December. The contours indicate 10% significance and hatching significance based on a FDR of 10%.