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Supplement of

Past and future interannual variability in Arctic sea ice in coupled climate models

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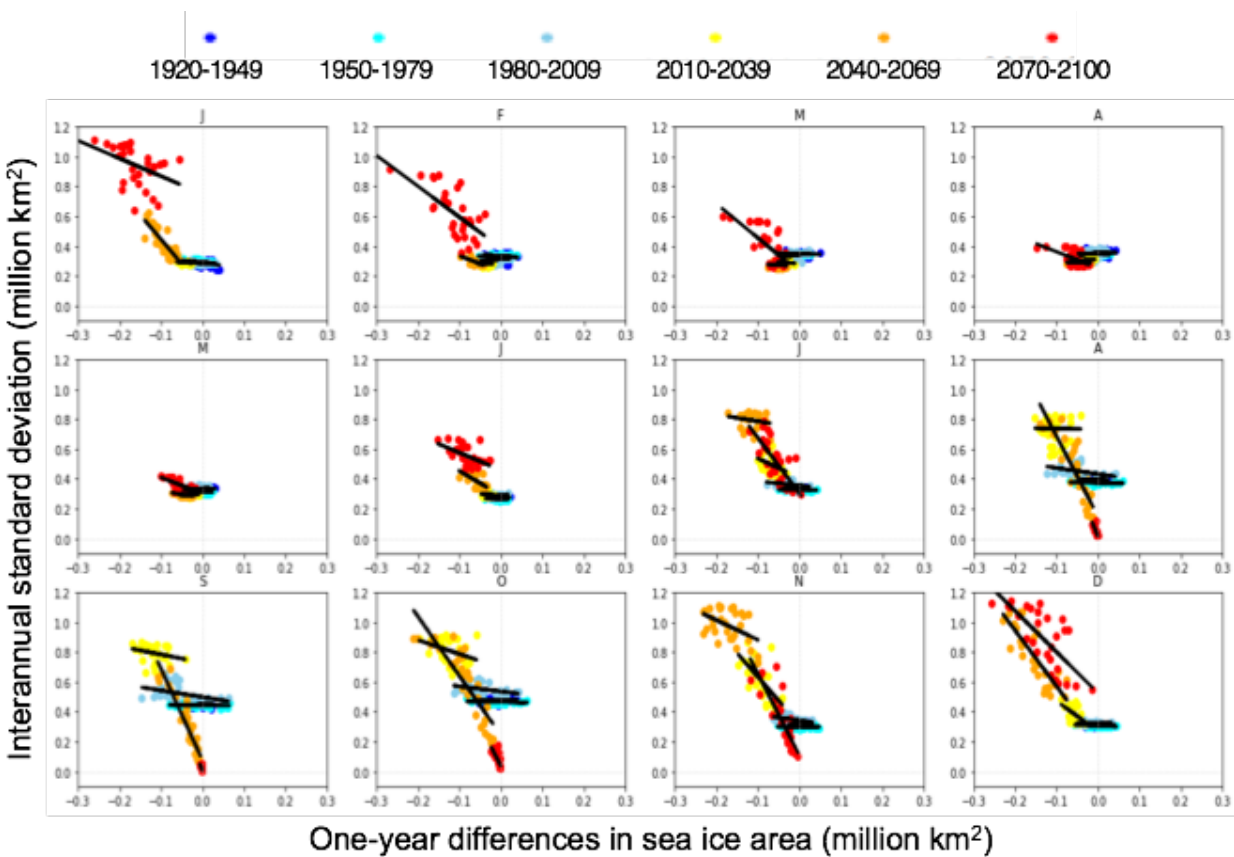


Figure S1. Relationship between basin-wide interannual Arctic sea ice area variability (y axis) and interannual ice area differences (x axis) as a function of month and time period in CESM-LE, based on Figure 2. Each dot represents the smoothed, ensemble-mean of an individual year during the 1920-2100 simulation, color-coded according to 30-year time periods. A separate slope is overlain for each 30-year period to highlight the evolution of the relationship between the two variables over time. Months begin with January at upper left and end with December at lower right.

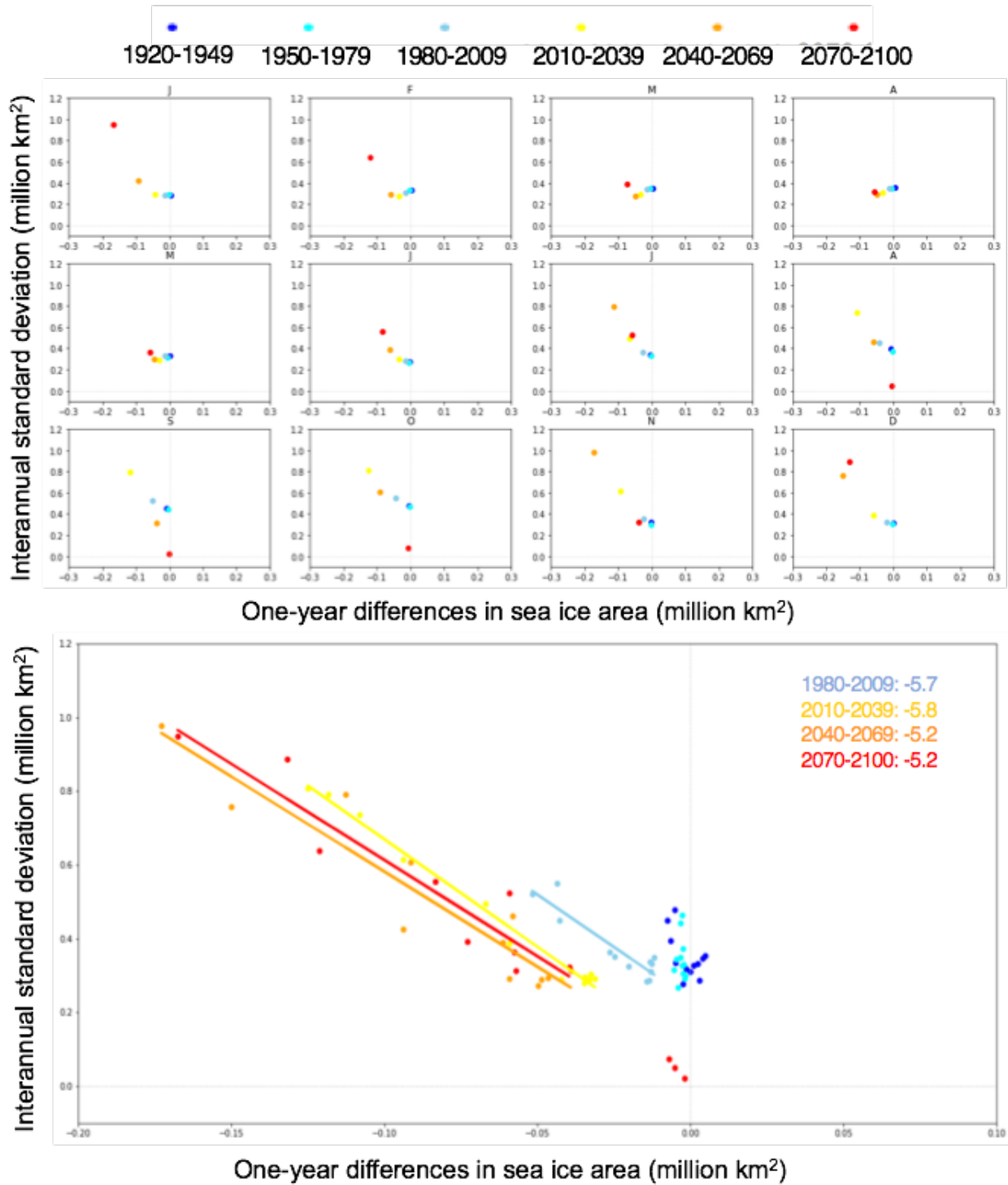


Figure S2. (top) As in Figure S3 but for the average value of each 30-year time period in every month. (bottom) Synthesis of all monthly values to illustrate the overall relationship among time periods. The magnitude of the regression from the late 20th century to late 21st century are overlaid.

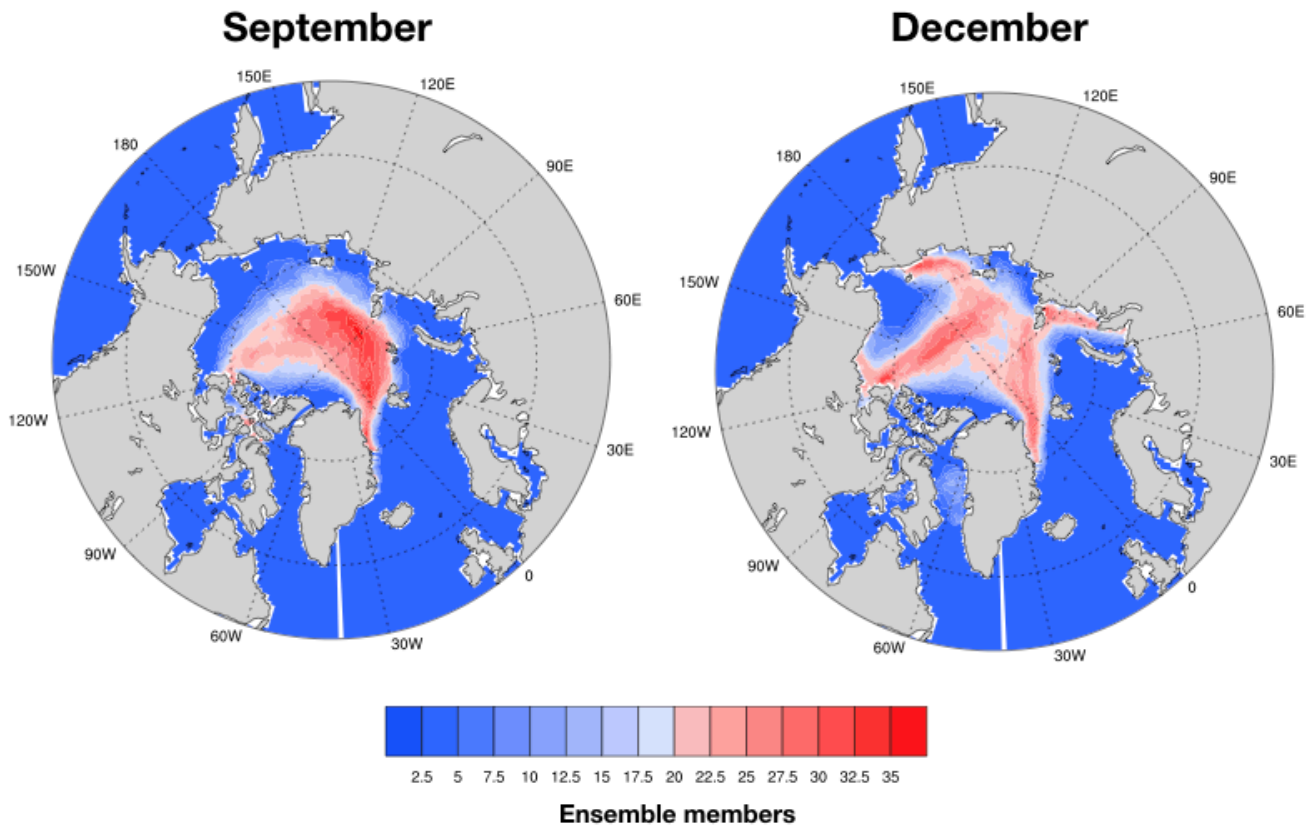


Figure S3: Map of the total number of ensemble members where the standard deviation of the 10-year time series of ice area within each grid cell exceeds 30% within September's and December's decade of maximum variability.