

*Geophysical Research Letters*

Supporting Information for

**Arctic Sea Level Variation in the Context of Climate Change: Accelerated rise period and Change of Key Influencing factors**

Fan Yang<sup>1</sup>, Lujun Zhang<sup>1,2</sup>

<sup>1</sup>School of Atmospheric Sciences, Nanjing University, Nanjing, China.

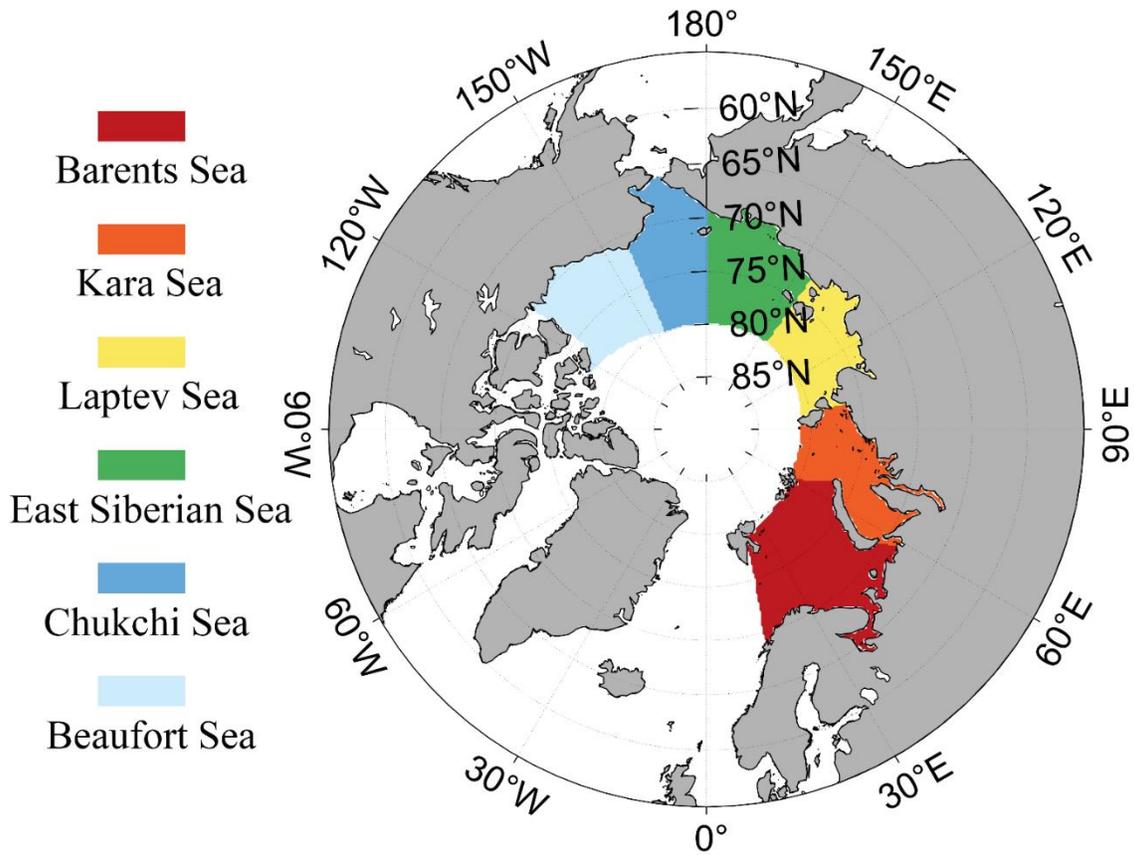
<sup>2</sup>Jiangsu Provincial Collaborative Innovation Center for Climate Change, Nanjing, China.

**Contents of this file**

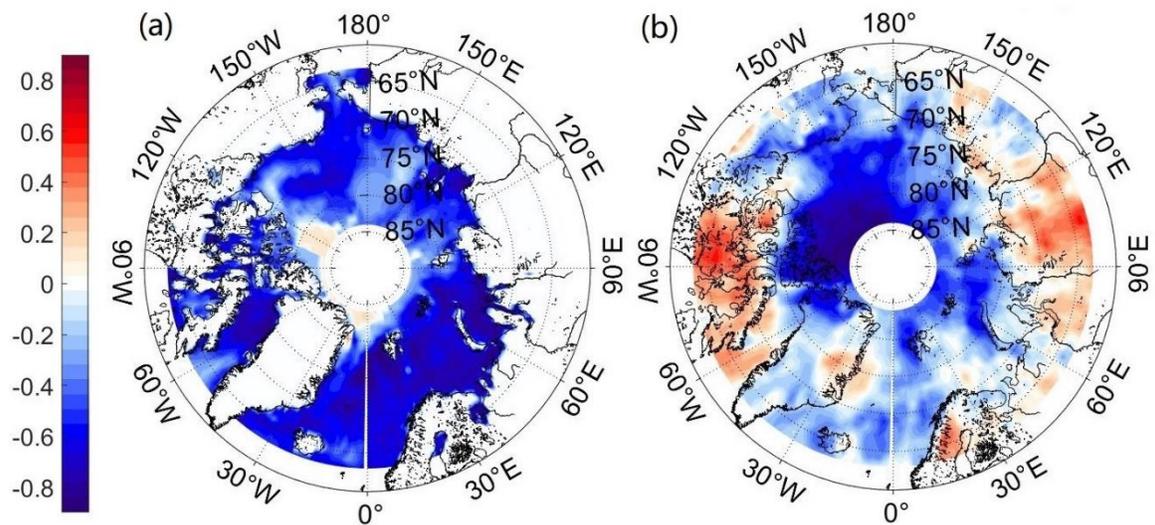
Figures S1 to S3

**Introduction**

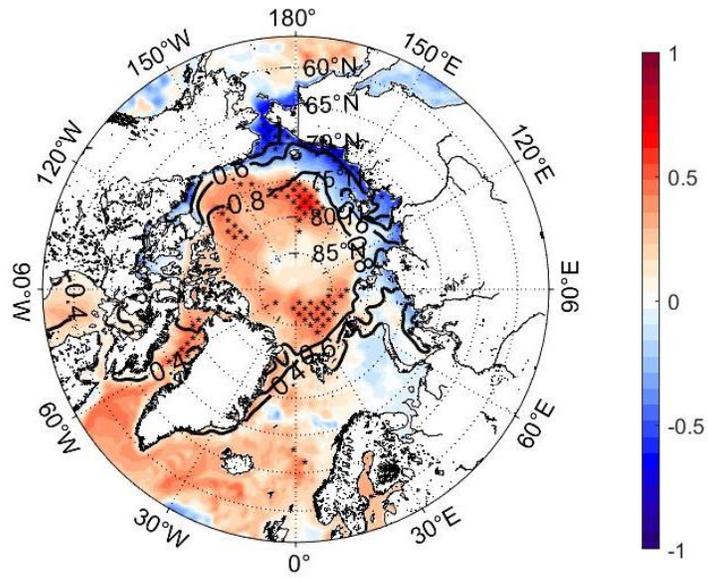
This supporting information provides the division of Arctic Ocean Region (Figure S1), Spatial distribution of the first mode of EOF of SST and precipitation (Figure S2) and correlation between northern hemisphere polar vortex central intensity index and sea level height (Figure S3).



**Figure S1.** Division of Arctic Ocean Region.



**Figure S2.** (a) Spatial distribution of the first mode of EOF of SST and (b) precipitation in the melting season of 1979-2018.



**Figure S3.** Correlation between northern hemisphere polar vortex central intensity index and sea level height from 1979 to 2018.