

Climate Dynamics

Supplementary Information for

A dynamic and thermodynamic coupling view of the linkages between Eurasian cooling and Arctic warming

Yongkun Xie¹, Guoxiong Wu^{2,3}, Yimin Liu^{*2,3,4}, Jianping Huang¹, Hanbin Nie⁵

- 1. Collaborative Innovation Center for Western Ecological Safety, Lanzhou University, Lanzhou, China*
- 2. State Key Laboratory of Numerical Modeling for Atmospheric Sciences and Geophysical Fluid Dynamics (LASG), Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China*
- 3. College of Earth and Planetary Sciences, University of Chinese Academy of Sciences, Beijing, China*
- 4. CAS Center for Excellence in Tibetan Plateau Earth Sciences, Beijing, China*
- 5. College of Atmospheric Sciences, Lanzhou University, Lanzhou, China*

Corresponding author address: Yimin Liu, Huayanli 40, Chaoyang District, Beijing 100029, China.

E-mail: lym@lasg.iap.ac.cn

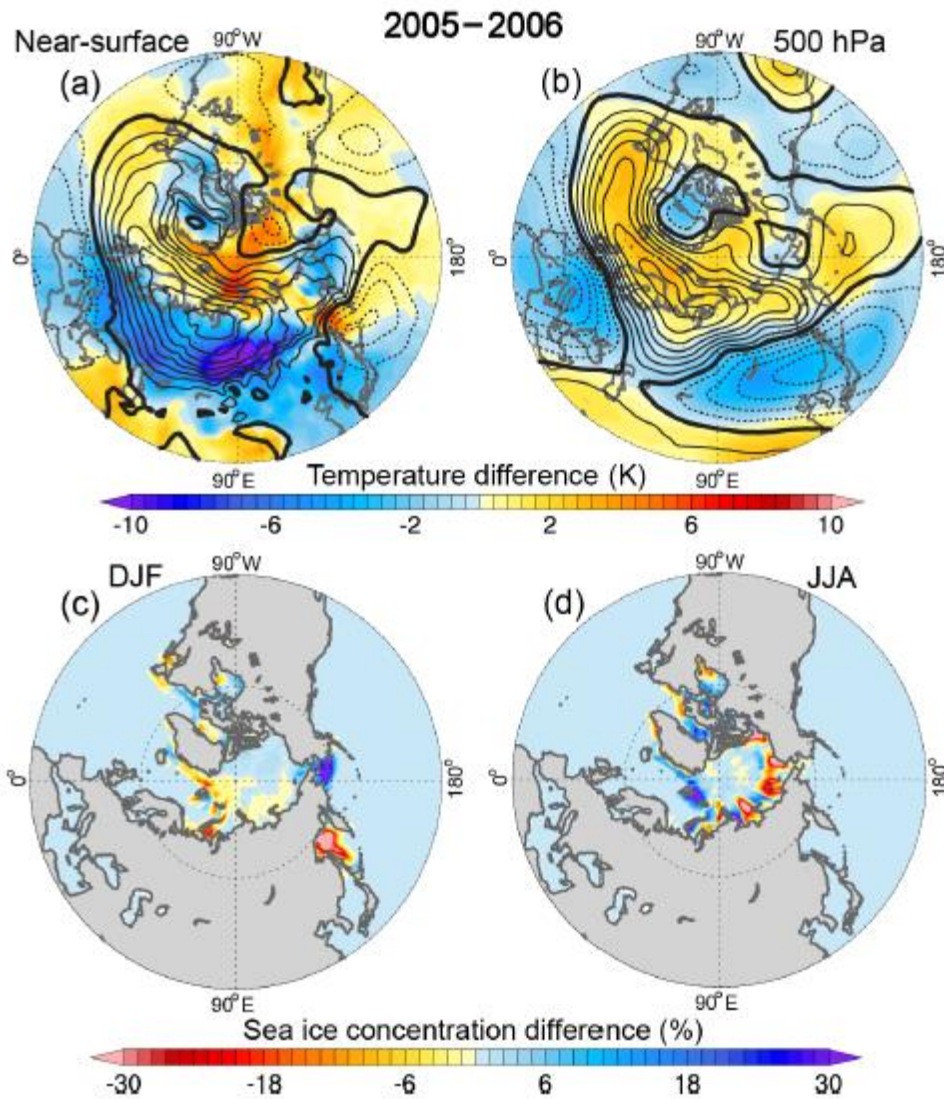


Fig. S1 (a) Difference (2005 minus 2006) in temperature (filled) at the near-surface and sea level pressure (black contour) during boreal winter. The dashed and solid grey lines represent negative and positive values, respectively; the interval is the same as in Fig. 2a. (b) Same as (a) but for the results at 500 hPa. The black contours indicate the geopotential height and the interval is the same as in Fig. 2c. (c) and (d) Differences (2005 minus 2006) in sea ice concentration during boreal winter and summer, respectively.