

기후 분과 [P-180]

Influence of large-scale climate modes on day-to-day temperature variability in East Asia

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Day-to-day temperature (DTD) variability in boreal winter is an important feature of the East Asian climate, affecting the weather and climate and of great socio-economic importance for densely populated regions. Both the variability and trend of DTD are more pronounced during winter than other seasons, which highlight its climatic and societal importance. This study further investigates how large-scale climate modes are linked to DTD in East Asian winter climate. Wintertime North Atlantic Oscillation (NAO) phases are significantly associated with DTD changes, suggesting that the NAO plays a role in modulating daily temperature fluctuations. These results provide a basis for understanding and predicting of the climate drivers of DTD variability in East Asia.

Keywords: Day-to-day variability, East Asian winter climate