

Atmospheric River Response to Arctic Sea Ice Loss in Climate Models

- The midlatitude AR response to Arctic sea ice loss is characterized by northeastward extension over the Pacific Ocean and an equatorward shift over the Atlantic Ocean, both of which are dominated by the effects driven by the changes in the westerly jet.
- The inter-model spread in AR response is related to climatological AR core longitude over the Pacific and climatological AR latitude over the Atlantic.

Ma, W., Chen, G., Peings, Y., & Alviz, N. (2021). Atmospheric River Response to Arctic Sea Ice Loss in the Polar Amplification Model Intercomparison Project. *Geophysical Research Letters*, 48(20), 1–12.

