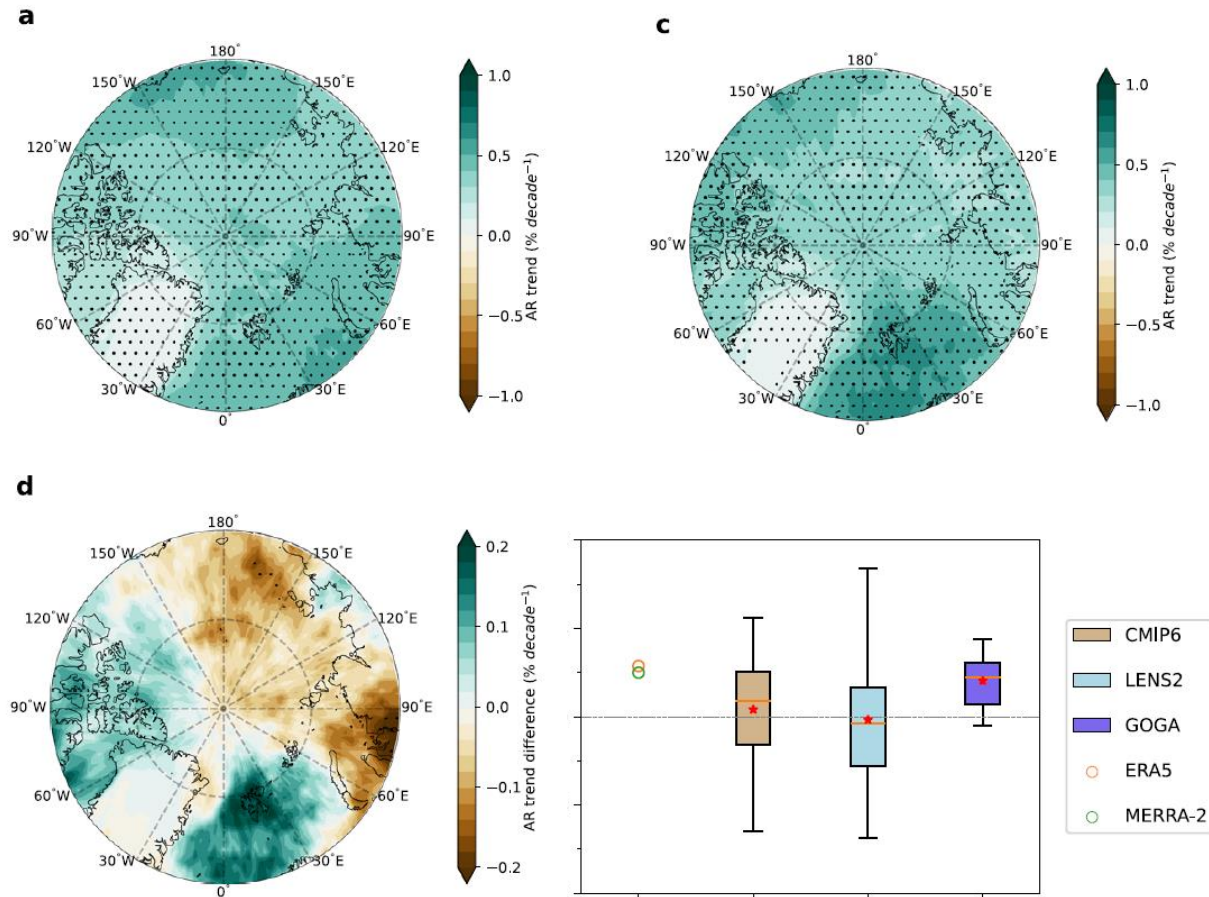


The Role of Interdecadal Climate Oscillations in Driving Arctic Atmospheric River Trends

Contrary to the uniform positive trend in climate simulations, the observed Arctic AR frequency increases by twice as much over the Atlantic sector compared to the Pacific sector in 1981-2021. This discrepancy can be reconciled by the Interdecadal Pacific Oscillation (IPO) and Atlantic Multidecadal Oscillation (AMO).



Ma, W., Wang, H., Chen, G., Leung, L. R., Lu, J., Rasch, P. J., Fu, Q., Kravitz, B., Zou, Y., Cassano, J. J., & Maslowski, W. (2024). The role of interdecadal climate oscillations in driving Arctic atmospheric river trends. *Nature Communications*, 15(1), 2135. <https://doi.org/10.1038/s41467-024-45159-5>.