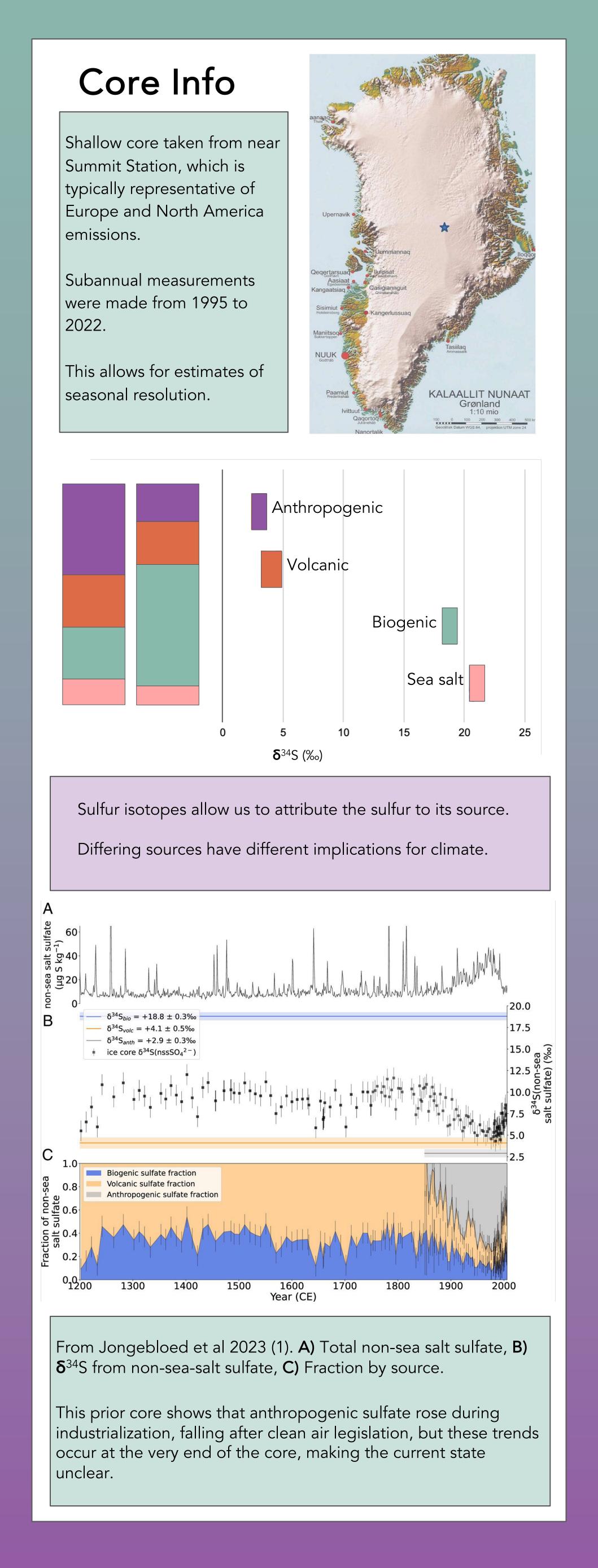
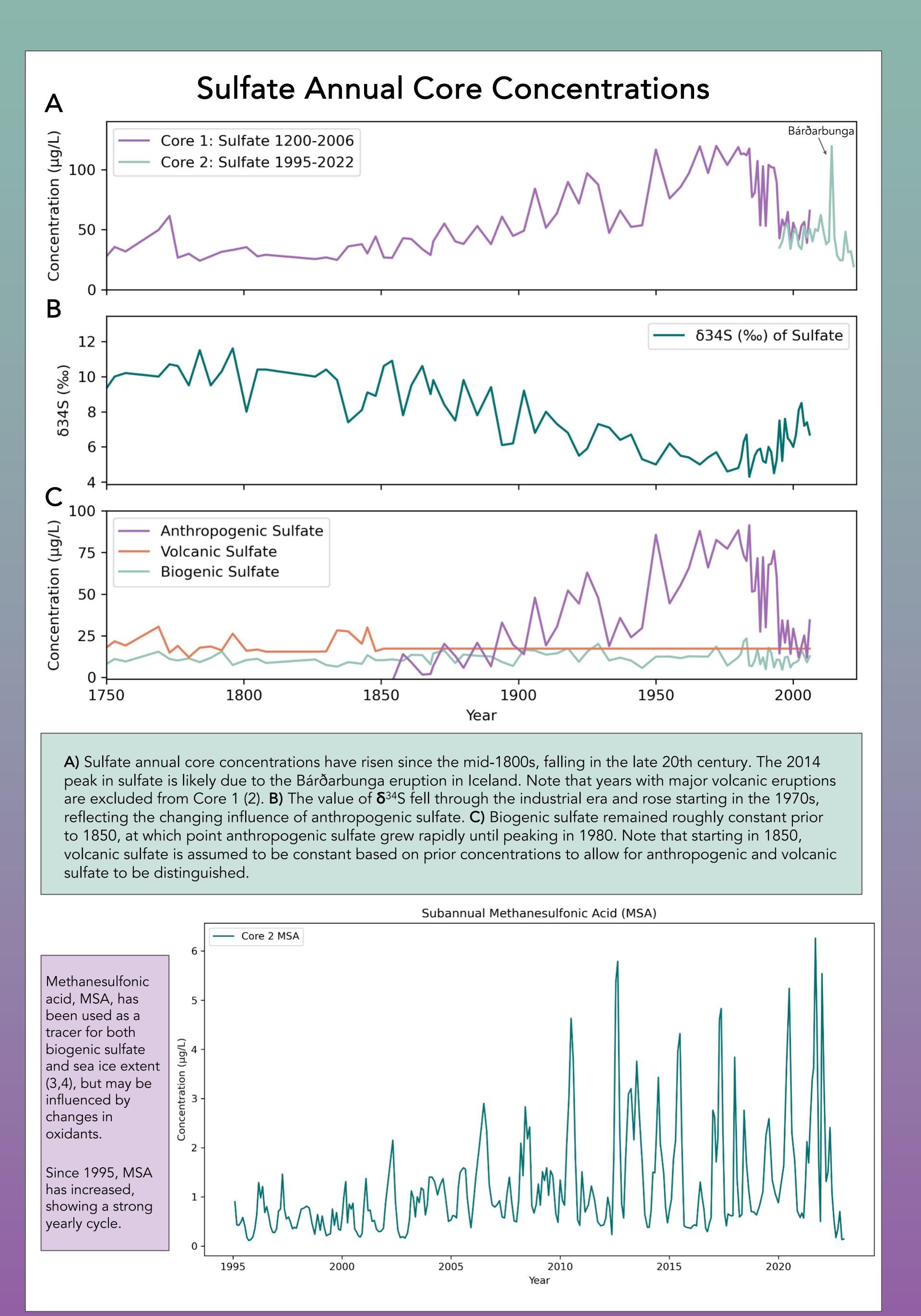


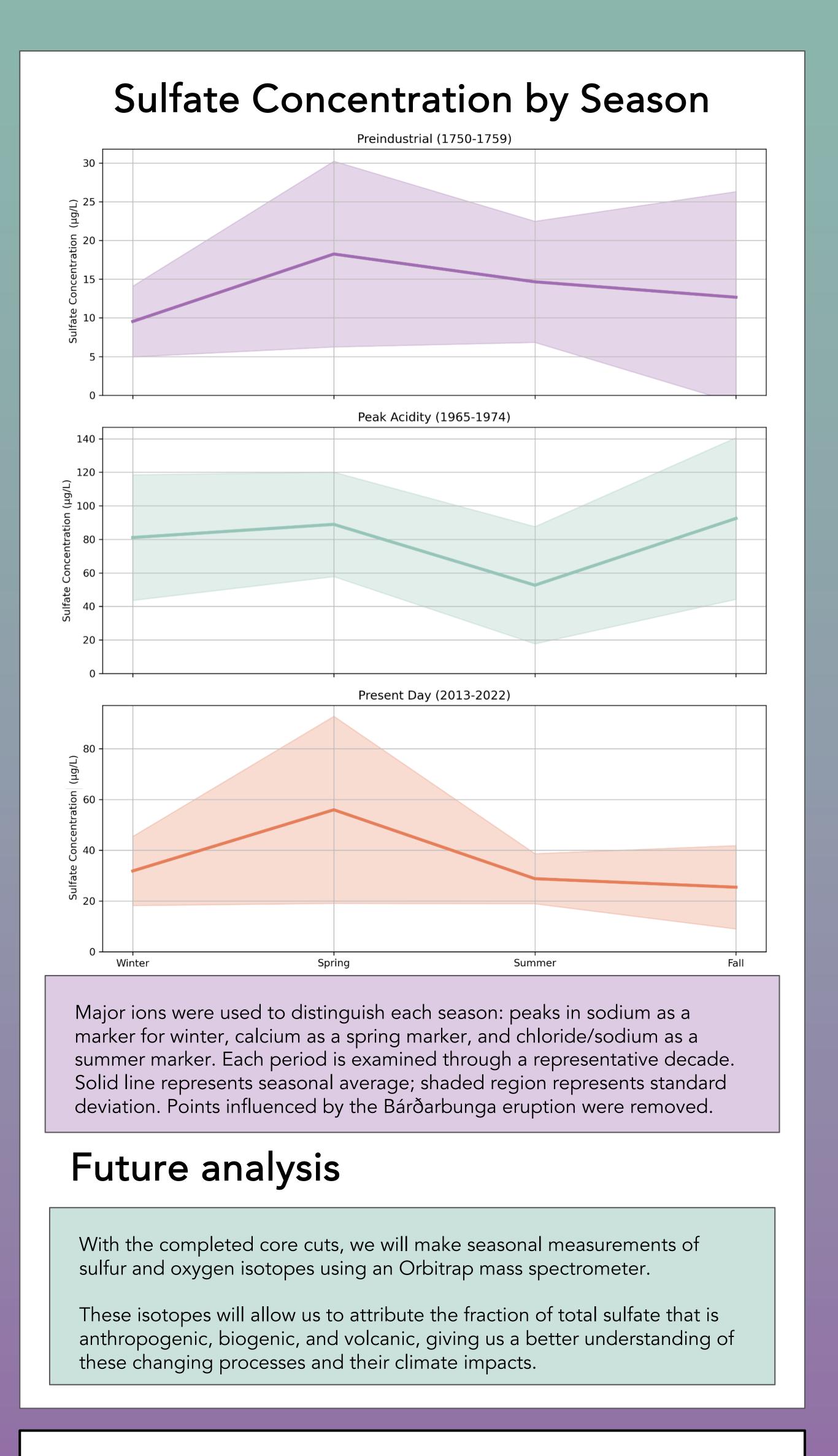


## Subannual Ice Core Measurements of Sulfate Aerosol from 1995 to 2023

Drew Pronovost<sup>1</sup>, Ursula A. Jongebloed<sup>1</sup>, Andrew Schauer<sup>1</sup>, Salima "Marky" Mayanja<sup>1</sup>, Jihong Cole-Dai<sup>2</sup>, Derek Brandis<sup>2</sup>, Nathan Chellman<sup>3</sup>, Rachel Moore<sup>4</sup>, Ben Riddell-Young<sup>5</sup>, Becky Alexander<sup>1</sup> (1) University of Washington, (2) South Dakota State University, (3) Desert Research Institute, (4) Georgia Institute of Technology, (5) NOAA Global Monitoring Laboratory







NSF PLR 2230350

Contact: <u>drewpr19@uw.edu</u>

Jongebloed, U. A.; Schauer, A. J.; Cole-Dai, J.; Larrick, C. G.; Porter, W. C.; Tashmim, L.; Zhai, S.; Salimi, S.; Edouard, S. R.; Geng, L.; Alexander, B. Industrial-Era Decline in Arctic

(2) Osman, M., Das, S. B., Marchal, O. & Evans, M. J. Methanesulfonic acid (MSA) migration in polar ice: data synthesis and theory. The Cryosphere 11, 2439–2462 (2017).

(3) Osterberg, E. C. et al. Coastal ice-core record of recent northwest Greenland temperature and sea-ice concentration. Journal of Glaciology 61, 1137–1146 (2015)

Methanesulfonic Acid Is Offset by Increased Biogenic Sulfate Aerosol. Proceedings of the National Academy of Sciences 2023, 120 (47), 1–7.