

Publications

The following publications deal explicitly with analyses of the WAIS Divide ice core, WAIS Divide boreholes, and/or the WAIS Divide, Antarctica field site.

1. Ahn J, Brook E and Howell K (2009) A high-precision method for measurement of paleoatmospheric CO₂ in small polar ice samples. *Journal of Glaciology*, 55(191), 499-506, 10.3189/002214309788816731
2. Ahn J, Brook EJ, Mitchell L, Rosen J, McConnell J, Taylor K, Etheridge D and Rubino M (2012) Atmospheric CO₂ over the last 1000 years: A high-resolution record from the West Antarctic Ice Sheet (WAIS) Divide ice core. *Global Biogeochemical Cycles*, 26, GB2027, 10.1029/2011GB004247
3. Arienzo MM, McConnell JR, Murphy LN, Chellman N, Das S, Kipfstuhl S and Mulvaney R (2017) Holocene black carbon in Antarctica paralleled Southern Hemisphere climate. *J. Geophys. Res. Atmos.*, 122, 10.1002/2017JD026599
4. Aydin M, Campbell JE, Fudge TJ, Cuffey KM, Nicewonger MR, Verhulst KR and Saltzman ES (2016) Changes in atmospheric carbonyl sulfide over the last 54,000 years inferred from measurements in Antarctic ice cores. *Journal of Geophysical Research: Atmospheres*, 121, 1943-1954, 10.1002/2015JD024235
5. Aydin M, Fudge TJ, Verhulst KR, Nicewonger MR, Waddington ED and Saltzman ES (2014) Carbonyl sulfide hydrolysis in Antarctic ice cores and an atmospheric history for the last 8000 years. *Journal of Geophysical Research Atmospheres*, 119(13), 8500-8514, 10.1002/2014JD021618
6. Aydin M, Verhulst KR, Saltzman ES, Battle MO, Montzka SA, Blake DR, Tang Q and Prather MJ (2011) Recent decreases in fossil-fuel emissions of ethane and methane derived from firn air. *Nature*, 476, 198-201, 10.1038/nature10352
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9. Barletta RE, Priscu JC, Mader HM, Jones WL and Roe CW (2012) Chemical Analysis of Ice Vein Microenvironments: II. Analysis of Glacial Samples from Greenland and the Antarctic. *Journal of Glaciology*, 58(212), 1109-1118, 10.3189/2012JoG12J112
10. Battle MO, Severinghaus JP, Sofen ED, Plotkin D, Orsi AJ, Aydin M, Montzka SA, Sowers T and Tans PP (2011) Controls on the movement and composition of firn air at the West Antarctic Ice Sheet Divide. *Atmospheric Chemistry and Physics*, 11, 11007-11021, 10.5194/acp-11-11007-2011
11. Bauer S E, Bausch A, Nazarenko L, Tsigaridis K, Xu B, Edwards R, Bisiaux M and McConnell J (2013) Historic and future black carbon deposition on the three ice caps: Ice-core measurements and model simulations from 1850 to 2100. *Journal of Geophysical Research Atmospheres*, 118, 7948-7961, 10.1002/jgrd.50612
12. Bauska TK, Baggenstos D, Brook EJ, Mix AC, Marcott SA, Petrenko VV, Schaefer H, Severinghaus JP and Lee JE (2016) Carbon isotopes characterize rapid changes in atmospheric carbon dioxide during the last deglaciation. *Proceedings of the National Academy of Sciences*, 113(13), 3465-3470, 10.1073/pnas.1513868113

13. Bauska TK, Joos F, Mix AC, Roth R, Ahn J and Brook EJ (2015) Links between atmospheric carbon dioxide, the land carbon reservoir and climate over the past millennium. *Nature Geoscience*, 8, 383-387, 10.1038/ngeo2422
14. Bereiter B, Kawamura K, Severinghaus JP (2018) New methods for measuring atmospheric heavy noble gas isotope and elemental ratios in ice core samples, *Rapid Commun Mass Spectrom*, 32, 801-814, <https://doi.org/10.1002/rcm.8099>
15. Bereiter B, Shackleton S, Baggenstos D, Kawamura K, Severinghaus J (2018) Mean global ocean temperatures during the last glacial transition, *Nature*, 553, 39-44, 10.1038/nature25152
16. Bisiaux MM, Edwards R, McConnell JR, Albert MR, Anschutz H, Neumann TA, Isaksson E and Penner JE (2012) Variability of black carbon deposition to the East Antarctic Plateau, 1800-2000 AD. *Atmospheric Chemistry and Physics*, 12, 3799-3808, 10.5194/acp-12-3799-2012
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23. Buizert C and Severinghaus JP (2016) Dispersion in deep polar firn driven by synoptic-scale surface pressure variability, *The Cryosphere*, 10, 2099-2111, 10.5194/tc-10-2099-2016
24. Chan WS, Mah ML, Voigt DE, Fitzpatrick JJ and Talghader JJ (2014) Crystal orientation measurements using transmission and backscattering, *Journal of Glaciology*, 60(224), 1135-1139, 10.3189/2014JoG14J071
25. Cole-Dai C, Ferris DG, Lanciki A, Savarino J, Thiemens MH and McConnell JR (2013) Two likely stratospheric volcanic eruptions in the 1450s C.E. found in a bipolar, subannually dated 800 year ice core record. *Journal of Geophysical Research Atmospheres*, 118, 7459-7466, 10.1002/jgrd.50587
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