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EMPLOYMENT/EDUCATION

University of Maine

- 2011- *Professor*, Climate Change Institute and Department of Earth Sciences
2006-2010 *Associate Professor*
2000-2005 *Assistant Professor*
2000- *Director*, Stable Isotope Laboratory

Woods Hole Oceanographic Institution

- 1998-2000 *Postdoctoral Scholar*, Department of Marine Chemistry and Geochemistry and Department of Geology and Geophysics
Advisors: Drs. E.R. Sholkovitz and L.D. Keigwin

University of New Hampshire

- 1998 Ph.D. Earth Science (Geochemical Systems)
Ice Core Glaciochemical Records of Late Holocene Climatic Variability in West Antarctica
Advisor: Dr. P.A. Mayewski

University of Maine

- 1994 M.S. Geological Sciences
Paleoceanographic Conditions of the Late Wisconsin Marine Submergence in Eastern Coastal Maine: Stable Isotopic Evidence
Advisor: Dr. H.W. Borns, Jr.

State University of New York at Buffalo

- 1992 B.A. Geological Sciences

AWARDS, HONORS, AND FELLOWSHIPS

- 2011 UMaine 2010-2011 Graduate Mentor Award
2008 Grand Island Distinguished Alumni Award
2003 UMaine Research Honor Roll
1998 Woods Hole Oceanographic Institution Postdoctoral Fellowship
1998 U.S. Geological Survey Postdoctoral Fellowship
1998 Sigma Xi Award for Excellence in Dissertation Research
1997 University of New Hampshire Dissertation Fellowship
1996 NASA Graduate Fellowship
1993 NSF Experimental Program to Stimulate Competitive Research (EPSCoR) Fellowship

PROFESSIONAL AFFILIATIONS

- 1998- The Geochemical Society
1998- Sigma Xi
1997- American Association for the Advancement of Science
1997- Union of Concerned Scientists
1995- International Glaciological Society
1994- American Quaternary Association
1994- American Geophysical Union

TEACHING EXPERIENCE

University of Maine

- 2012- ERS 191: Energy in the Earth System
2009- ERS 369: Energy Resources and Climate Change
2009- ERS 201: Global Environmental Change
2003- ERS 200: Earth Systems
2002- ERS 527: Isotope Geology
2001- ERS 602: Stable Isotope Geochemistry, Paleoclimate, Glaciology, Climate Dynamics seminars
2000-2008 ERS 315: Principles of Stratigraphy and Sedimentology

University of New Hampshire

- 1996-1998 Teaching Assistant; Natural Climate Variability

University of Maine

- 1993 Teaching Assistant; Introductory Geology

University of Buffalo

- 1992 Teaching Assistant; Summer Geology Field Course, Western U.S.

INVITED LECTURES/SYMPOSIA

- 2011 Laboratoire de Glaciologie et de Géophysique de l'Environnement (LGGE), Grenoble, France
2010 Lamont-Doherty Earth Observatory, Dust Records in a Changing World Workshop
2010 Colby College, Maine
2010 University of Milano Biocca, Italy
2009 AGU Fall Meeting, San Francisco
2009 NSF Conversations from Antarctica
2008 AGU Fall Meeting, San Francisco
2004 AGU Spring Meeting, Montreal
2002 UMaine Dept. of Chemistry
CORONA Conference, Isle of Shoals
U.S. Geological Survey
2000 Cambridge University (U.K.)
University of Maine
1999 University of California San Diego
Massachusetts Institute of Technology
NSF/PAGES Swiss Climate Summer School, *The Dynamics of the Earth System: Processes and Records of Past Climate Change*, Hasliberg, Switzerland
1998 NSF/NATO Summer School, *Greenland Ice Cores and North Atlantic Climate*, Thule, Greenland
NATO Advanced Study Institute, *Numerical Modeling of the Global Atmosphere*, Brunig, Italy
Woods Hole Oceanographic Institution
1997 Dartmouth College
AIRNET Conference, Keene State College
Northern New England Junior Science and Humanities Conference
1996 AIRNET Conference, Notre Dame College
1995 NASA Summer School for Earth Sciences, *Processes of Global Change*, Pasadena, California
NATO Advanced Study Institute, *The Stratosphere and its Role in the Climate System*, Montreal, Quebec

PROFESSIONAL SERVICE

- 2011 co-convener/session chair, AGU Fall meeting, "Pleistocene-Holocene climate variability in the North Pacific realm"
2010- Editorial Board Member, *Scientific Reports* (Nature Publishing Group)
2009- Chair, U.S. Ice Core Working Group (advisory to NSF)
2009- Member, Senior Advisory Board, Ice Drilling Program Office (advisory to NSF)
2009- Member, Maine Audubon Board of Trustees
2009- Member, PAGES Arctic 2kyr Working Group
2005-2009 Member, U.S. Ice Core Working Group (stable isotope representative)
2008- University Research Council Hi-Tech Equipment Committee

2007-2010	Elected member, UMaine Faculty Senate; Research and Scholarship, and Library Committees
2008	co-convener/session chair, AGU Fall meeting, "Tropical Pacific Paleoceanography during the Late Quaternary"
2007	co-convener/session chair, AGU Fall meeting, "Low to High Latitude North Pacific Climate During the Holocene"
2004	co-convener/session chair, EGU 1 st General Assembly session, "Climatic and environmental records from mid and low latitude ice cores"
2004-	Chair, Churchill Exploration Fund committee
2002-	Chair, UMaine ICP-MS Facility advisory board
2005-	Member, UMaine Sawyer Environmental Chemistry Research Laboratory advisory board
2000-	Served on several ERS and CCI search committees, CCI graduate committee, ERS and CCI planning committees
1996-	GSA Partners for Education Program (PEP)
1996	NSF Electronic Emissary Program
1994-	Several (>50) presentations to K-12 classes and civic organizations

Panel reviewer for National Science Foundation (NSF) and German Research Foundation (DFG); proposal reviews for NSF, European Science Foundation, DFG, Natural Environment Research Council (U.K.), National Geographic, Agence Nationale De La Recherche (France), Canadian Science Foundation, Netherlands Organization for Scientific Research, Australian Antarctic Program, US-Israel Binational Science Foundation, Swiss National Science Foundation, Austrian Science Fund

Manuscript reviewer for *Science*, *Nature*, *Journal of Geophysical Research*, *Tellus*, *Geophysical Research Letters*, *Journal of Glaciology*, *Quaternary Science Reviews*, *Annals of Glaciology*, *Climate of the Past*, *Climate Dynamics*, *Environmental Science and Technology*, *Journal of Climate*, *Geology*, *Applied Geochemistry*, *Geochimica et Cosmochimica Acta*, *Hydrological Processes*, *Polar Research*, Kluwer Publishers

STUDENT ADVISING

In progress:

Seth Campbell (advisor, PhD expected 2014)
 Bess Koffman (advisor, PhD expected 2013)
 Matthew Kohler (advisor, Honors thesis expected 2013)
 Timothy Godaire (co-advisor, MS expected 2014)
 Tobias Koffman (committee member, MS expected 2012)
 Bjorn Grigholm (committee member, PhD expected 2012)
 Krista Slemmons (committee member, PhD expected 2013)
 Margaret Jackson (committee member, MS expected 2013)
 Elizabeth Dengler (committee member, MS expected 2013)

Completed:

Eric Kelsey (University of New Hampshire, committee member; PhD 2012)
 Dominic Winski (advisor, MS 2011)
 Isabel Moreno (University of Grenoble, France, external examiner, PhD 2011)
 Kathryn Ladig (committee member, MS 2011)
 Isabel Moreno (University of Grenoble, France, external examiner, PhD 2011)
 Seth Campbell (advisor, MS 2010)
 Daniel Dixon (committee member, PhD 2011)
 Shelly Griffin (advisor, Capstone 2009)
 Stuart Ryan (external advisor, Bates College; BS 2009)
 Elena Korotkikh (committee member; MS 2009)
 Benjamin Gross (advisor, MS 2008)
 Alan Wanamaker (advisor; PhD 2007)
 Bjorn Grighom (committee member; MS 2007)
 Erich Osterberg (committee member; PhD 2007)
 Bruce Williamson (advisor; MS 2006)
 Daniel Dixon (committee member; MS 2004)

Susan Kaspari (committee member; MS 2003; PhD 2007)
Kaplan Yalcin (University of New Hampshire, committee member; PhD 2005)
Lee Pruitt (advisor; MS 2003)
Thomas Whittaker (committee member; MS 2004)
V. Blue Spikes (committee member; PhD 2003)
Dylan Andrews (Capstone advisor; 2001)

FIELD RESEARCH EXPERIENCE

2012	Denali National Park, Alaska
2010	Denali National Park, Alaska
2008	Denali National Park, Alaska
2005	Dry Valleys, Antarctica
2004	Dry Valleys, Antarctica
2003	Dry Valleys, Antarctica
2003	Eclipse Icefield (St. Elias Mountains)
2002	Eclipse Icefield (St. Elias Mountains)
2001	Central Asia (Altai Mountains)
2001	Ecuador (Andes Mountains)
2000	Central Asia (Tien Shan Mountains)
1998	Nepal (Khumbu Himalaya)
1998	Central Asia (Tien Shan Mountains)
1998	Iceland (Eyjafjallajökull Ice Cap)
1996	West Antarctica (Siple Dome)
1995	West Antarctica (Marie Byrd Land)
1994	West Antarctica (Siple Dome)
1992-1994	Eastern coastal Maine, UMaine Graduate Research

FUNDING – NATIONAL SCIENCE FOUNDATION

Collaborative Research: Reconstructing central Alaskan precipitation variability and atmospheric circulation during the past millennium, NSF- Paleoperspectives on Climate Change, \$364,771, PI, 2012-2015.

Roosevelt Island Climate Evolution Project (RICE): US Deep Ice Core Glaciochemistry Contribution (2011- 2014), NSF-OPP Antarctic Glaciology, \$815,937, co-PI, 2011-2014.

Collaborative research: Construction of a continuous, high resolution and absolutely-dated marine chronology from the Gulf of Maine during the last millennium, NSF-Paleoperspectives on Climate Change, \$200,051, PI, 2010-2013.

Collaborative Research: Microparticle/tephra analysis of the WAIS Divide ice core, NSF-OPP Antarctic Glaciology, \$591,434, PI, 2007-2011.

Collaborative Research: Asian Ice Core Array (AICA): Reconstruction of Past Physical and Chemical Climate Over Asia, NSF-ATM Paleoclimate, \$415,336, co-PI, 2008-2011.

Collaborative Research: Drillsite Reconnaissance and Snow Chemistry Survey in Denali National Park, NSF-OPP Arctic Natural Sciences, \$95,200, PI, 2007-2010.

Collaborative Research: 2000+ Year Detailed, Calibrated Climate Reconstruction from a South Pole Ice Core Set in an Antarctic – Global Scale Context, NSF-OPP Antarctic Glaciology, \$203,858, co-PI, 2007-2010.

Dry Valleys Late Holocene Climate Variability, NSF-OPP Antarctic Glaciology, \$440,342, PI, 2003-2008.

A new Mt. Logan ice core record – change in climate and chemistry of the atmosphere for the North Pacific, NSF-OPP Arctic Natural Sciences, \$375,000, co-PI, 2002-2005.

Aquaculture-Based Calibration of the *M. edulis* Isotope Paleothermometer, NSF-ATM Paleoclimate, \$233,570, PI, 2002-2005.

Acquisition of a high resolution ICP-MS for Environmental Research and Training in Maine, NSF-MRI, \$350,308, PI, 2002-2005.

Paleoclimate from Mt. Everest Ice Cores, NSF-ATM Earth Systems History, \$397,005, co-PI, 2001-2004.

Collaborative Research: A Glaciochemical Record of Natural and Anthropogenic Environmental Change in the Northwestern North American Arctic, NSF-OPP Arctic Natural Sciences, \$129,763, PI, 2002-2006.

Paleoclimate and Glaciological Reconstructions in Central Asia Through the Collection and Analysis of Ice Cores and Instrumental Data from the Tien Shan, NSF-ATM Earth Systems History, \$252,226; DOE, \$181,674, PI, 1999-2002.

FUNDING – OTHER SOURCES

Equipment upgrades for stable isotope analysis at UMaine, University of Maine Multiuser Equipment Initiative, PI, \$41,030, 2012-2013.

Improving inquiry-based scientific writing in ERS201 (Global Environmental Change), Maine Physical Sciences Partnership, PI, \$25,000, 2012-2014.

Major advances in the field of climate change reconstruction using ice cores, W.M. Keck Foundation, co-PI, \$1,600,000, 2008-2011.

Determining the Sources of Salt Pollution in Maine Ground Water Using Isotopic and Elemental Characterization, MAFES/USDA, \$27,400, co-PI, 2002-2005.

Isotope Hydrology in High-Elevation Ecuador Watersheds. University of Maine Faculty Research Fund Award, \$8,700, PI, 2001-2002.

Long-term Dynamics of the Southern Monsoons, Glaciers, and Water Resources in South-Eastern Tibet, National Geographic Society, \$25,000, Co-PI, 2001-2002.

Isotopic, Ionic, and Elemental Measurements on 1999 Snowpit Samples Collected from the Inilchek Glacier, Central Tien Shan, U.S. Geological Survey, \$15,000, PI, 1999.

Trace Element Analysis of Upper Fremont Glacier (Wyoming) Ice Core Samples: A Pilot Study, U.S. Geological Survey, \$3,000, PI, 1999.

Ice Core Reconnaissance in the Central Tien Shan, Kyrgyzstan, DOE, \$25,000, PI, 1998.

PUBLICATIONS (PEER REVIEWED)

Mayewski, P.A., Maasch, K., Dixon, D., Snead, S., Oglesby, R., Korotkikh, E., Potocki, M., Grigholm, B., Kreutz, K., Kurbatov, A., Spaulding, N., Stager, C., Taylor, K., Steig, E., White, J., dwin, I., Simoes, J., Jana, R., Kraus, S., Fastook, J., 2012, West Antarctica's sensitivity to natural and human forced climate change over the Holocene, *Journal of Quaternary Science*, accepted.

Breton, D., Koffman, B., Kurbatov, A., Kreutz, K., and Hamilton, G., 2012, Quantifying signal dispersion in a hybrid ice core melting system for geochemical and microparticle analysis, *Environmental Science and Technology*, in press.

Winski, D., Kreutz, K.J., Osterberg, E.O., Campbell, S., and Wake, C., 2012, High Frequency Observations of Melt

Effects on Snowpack Stratigraphy, Kahiltna Glacier, Central Alaska Range, *Hydrological Processes*, accepted.

Kreutz, K.J., and Koffman, B., 2012, Ice core methods: Glaciochemistry, in *Encyclopedia of Quaternary Science 2nd edition*, S. Elias, ed., Elsevier Publishers, accepted.

Kelsey, E.P., Wake, C.P., Yalcin, K., and Kreutz, K.J., 2012, Eclipse ice core accumulation and stable isotope variability as an indicator of North Pacific climate, *Journal of Climate*, 25, 6426-6440.

Ahn, J., Brook, E., Schmittner, A., and Kreutz, K.J., 2012, Abrupt change in atmospheric CO₂ during the last ice age, *Geophysical Research Letters*, 39, L18711, doi:10.1029/2012GL053018.

Gross, B., Kreutz, K.J., Osterberg, E., McConnell, J., Handley, M., Wake, C., and Yalcin, K., 2012, Constraining recent lead pollution sources in the North Pacific using ice core stable lead isotopes, *Journal of Geophysical Research-Atmospheres*, 117, D16307, doi:10.1029/2011JD017270.

Campbell, S., K.J. Kreutz, Osterberg, E.O., Arcone, S., Wake, C.P., Introne, D.S., Volkening, K., and Winski, D. 2012b, Melt regimes, internal stratigraphy, and flow dynamics of three glaciers in the Alaska Range, *Journal of Glaciology*, 58(207), 99-109, doi: 10.3189/2012JoG10J238.

Campbell, S., Kreutz, K.J., Osterberg, E., Arcone, S., Wake, C., Volkening, K., and Winski, D., 2012a, Flow dynamics of an accumulation basin: A case study of the Upper Kahiltna Glacier on Mt. McKinley, Alaska, *Journal of Glaciology*, 58(207), 185-195, doi: 10.3189/2012JoG10J233.

Wanamaker, A., K.J. Kreutz, B. Schöne, and D. Introne, 2011, Gulf of Maine shells reveal changes in seawater temperature seasonality during the Medieval Climate Anomaly and the Little Ice Age, *Paleogeography, Paleoclimatology, Paleoecology*, 302, 43-51.

Schöne, B., A. Wanamaker, J. Fiebig, J. Thebault, and K.J. Kreutz, 2011, Annually resolved δ¹³C chronologies of long-lived bivalve mollusks (*Arctica Islandica*) reveal oceanic carbon dynamics in the temperate North Atlantic during recent centuries, *Paleogeography, Paleoclimatology, Paleoecology*, 302, 31-42.

Kelsey, E., C. Wake, K.J. Kreutz, and E. Osterberg, 2010, Ice layers as an indicator of summer warmth and atmospheric blocking in Alaska, *Journal of Glaciology*, 56 (198), 715-722.

Arcone, S.A., and Kreutz, K.J., 2009, GPR reflection profiles of Clark and Commonwealth Glaciers in the Dry Valleys, Antarctica, *Annals of Glaciology*, 50(51), 112-120.

Fisher, D., E. O. Osterberg, A. Dyke, D. Dahl-Jensen, M. Demuth, C. Zdanowicz, J. Bourgeois, R. Koerner, P. Mayewski, C. P. Wake, K. J. Kreutz, E. Steig, J. Zheng, K. Yalcin, K. Goto-Azuma, B. Luckman, and S. Rupper, 2008, The Mt. Logan Holocene-Wisconsinan isotope record: Tropical Pacific-Yukon connections, *Holocene*, 18(5), 667-677.

Mann, J.L., Shuman, C.A., Kelly, W.R., and Kreutz, K.J., 2008, Measurement of δ³⁴S in two high-elevation snowpits by multiple-collector thermal ionization mass spectrometry (MC-TIMS) using a ³³S-³⁶S double spike, *Geochimica et Cosmochimica Acta*, 72, 3907-3927.

Wanamaker, A.D., Kreutz, K.J., Wilson, T., Borns, H.W. Jr., Introne, D., and Feindel, S., 2008, Experimentally derived Mg/Ca and Sr/Ca ratios in juvenile bivalve calcite in *M. edulis*: implications for paleotemperature reconstruction, *Geo-Marine Letters*, DOI 10.1007/s00367-008-0112-8.

Wanamaker, A.D., Kreutz, K.J., Schone, B.R., Maasch, K.A., Pershing, A.J., Borns, H.W., Introne, D.S., and Feindel, S., 2008, A late Holocene paleo-productivity record in the western Gulf of Maine, USA, inferred from growth histories of the long-lived ocean quahog (*Arctica islandica*), *International Journal of Earth Sciences*, doi 10.1007/s00531-008-0318-z.

Osterberg, E., Mayewski, P.A., Kreutz, K.J., Fisher, D.A., Handley, M., Snead, S., Zdanowicz, C., Zheng, J.,

Demuth, M., Waskiewicz, M., Bourgeois, J., 2008, Ice core record of rising lead pollution in the North Pacific Atmosphere, *Geophysical Research Letters*, 35, L05810, doi:10.1029/2007GL032680.

Wanamaker, A.D. Jr., Kreutz, K.J., Schone, B.R., Petigrew, N., Borns, H.W., Introne, D.S., Belknap, D., Maasch, K.A., and Feindel, S., 2007, Coupled North Atlantic slope water forcing on Gulf of Maine temperatures over the past millennium, *Climate Dynamics*, doi 10.1007/s00382-007-0344-8.

Williamson, B.R., Kreutz, K.J., Mayewski, P.A., Bertler, N.A.N., Snead, S., Handley, M., and Introne, D., 2007, A coastal transect of McMurdo Dry Valleys snow and firn: marine and terrestrial influences on glaciochemistry, *Journal of Glaciology*, 53(183), 1-13.

Kaspari, S., Mayewski, P., Kang, S., Snead, S., Hou, S., Hooke, R., Kreutz, K.J., Introne, D., Handley, M., Maasch, K., Qin, D., and Ren, J., 2007, Reduction in northward incursions of the South Asian monsoon since ~1400 AD inferred from a Mt. Everest ice core, *Geophysical Research Letters*, 34, L16701, doi:10.1029/2007GL020440.

Wanamaker, A.D., Kreutz, K.J., Borns, H.W. Jr., Introne, D.S., Feindel, S., Funder, S., Rawson, P., and Barber, B., 2007, Experimental determination of salinity, temperature, growth, and metabolic effects on shell chemistry of *Mytilus edulis* collected from Maine and Greenland, *Paleoceanography*, 22, PA2217, doi:10.1029/2006PA001352.

Yalcin, K., C. P. Wake, K. J. Kreutz, M. S. Germani, and S. I. Whitlow, 2007, Ice core paleovolcanic records from the St. Elias Mountains, Yukon, Canada, *Journal of Geophysical Research*, 112, D08102, doi:10.1029/2006JD007497.

Bertler, N.A.N., Naish, T.R., Oerter, H., Kipfstuhl, S., Barrett, P.J., Mayewski, P.A., and Kreutz, K.J., 2006, The effects of joint ENSO-Antarctic Oscillation forcing on the McMurdo Dry Valleys, Antarctica, *Antarctic Science*, 18(4), 507-514.

Kreutz, K.J., 2006, Glaciochemistry, in Elias, S.A. ed., *Encyclopedia of Quaternary Science*, Elsevier Publishers, London, 1192-1998.

Osterberg, E., Handley, M., Snead, S., Mayewski, P.A., and Kreutz, K.J., 2006, A continuous ice core melter systems with discrete sampling for major ions, trace metals, and stable isotopes, *Environmental Science and Technology*, 40, 3355-3361.

Yalcin, K., Wake, C.P., Kang, S., Kreutz, K.J., and Whitlow, S., 2006, Seasonal and spatial variability of snow chemistry at Eclipse Icefield, Yukon Territories, Canada, *Annals of Glaciology*, 43, 1-9.

Yalcin, K., C. P. Wake, K. J. Kreutz, M. S. Germani, and S. I. Whitlow, 2006, Ice core evidence for a second volcanic eruption around 1809 in the Northern Hemisphere, *Geophysical Research Letters*, 33, L14706, doi:10.1029/2006GL026013.

Wanamaker, A.D., Kreutz, K.J., Borns, H.W., Introne, D.S., Feindel, S., Barber, B., and Funder, S.V., 2006, An aquaculture-based method for calibrated bivalve isotope paleothermometry, *Geochemistry, Geophysics, Geosystems*, 7 (9), doi:10.1029/2005GC001189.

Yalcin, K., Wake, C.P., Whitlow, S.I., and Kreutz, K.J., 2006, Forest fire signals recorded in ice cores from the Eclipse Icefield, Yukon Territories, Canada, *Holocene*, 16, 200-209.

Bertler, N.A.N., Mayewski, P.A., Aristarain, A., Barrett, P., Becagli, S., Bernardo, R., Bo, S., Curran, M., Qin, D., Dixon, D., Ferron, F., Fischer, H., Frey, M., Frezzotti, M., Fundel, F., Gentron, C., Gragnani, R., Hamilton, G., Handley, M., Hong, S., Isaksson, E., Kang, J., Ren, J., Kamiyama, K., Kanamori, S., Karkas, E., Karlof, L., Kaspari, S., Kreutz, K.J., Kurbatov, A., Meyerson, E., Ming, Y., Zhang, M., Motoyama, H., Mulvaney, R., Oerter, H., Osterberg, E., Propositto, M., Pyne, A., Ruth, U., Simoes, J., Smith, B., Snead, S., Teinila, K., Traufetter, F., Udisti, R., Virkkula, A., Watanabe, O., Williamson, B.,

Winther, J.-G., Li, Y., Wolff, E., Li, Z., Zielinski, A., Snow chemistry across Antarctica, 2005, *Annals of Glaciology*, 41, 167-179.

Aizen, V.B., Aizen, E., Fujita, K., Nikitin, S.A., Kreutz, K.J., and Takeuchi, L.N., 2005, Stable-isotope time series and precipitation origin from firn-core and snow samples, Altai glaciers, Siberia, *Journal of Glaciology*, 51(175), 637-654.

Fisher, D.A., Wake, C.P., Kreutz, K.J., Yalcin, K., Steig, E., Mayewski, P.A., Anderson, L., Zheng, J., Rupper, S., Zdanowicz, C., Demuth, M., Waskiewicz, M., Dahl-Jensen, D., Goto-Azuma, K., Bourgeois, J., Koerner, R., Sekerka, J., Osterberg, E., Abbott, M., Finney, B., and Burns, S., 2004, Stable isotope records from Mouth Logan, Eclipse ice cores and nearby Jellybean Lake. Water cycle of the North Pacific over 2000 years and over five vertical kilometers: sudden shifts and tropical connections, *Geographie physique et Quaternaire*, 58, (2-3), 17-27.

Bertler, N.A.N., Barrett, P., Mayewski, P.A., Fogt, R., Kreutz, K.J., and Shulmeister, J., 2004, El Nino suppresses Antarctic warming, *Geophysical Research Letters*, 31, L15207, doi:10.1029/2004GL020749.

Pruett, L.E., Kreutz, K.J., and Wadleigh, M., and Aizen, V.B., 2004, Assessment of sulfate sources in high-elevation Asian precipitation using stable sulfur isotopes, *Environmental Science and Technology*, 38, 4728-4733.

Aizen, V.B., Aizen, E.M., Melack, J.M., Kreutz, K.J., and Cecil, L.D., 2004, Association between atmospheric circulation patterns and firn-ice core records from the Inilchek glacierized area, central Tien Shan, *Journal of Geophysical Research*, 109, doi:10.1029/2003JD003894.

Alexander, B., Savarino, J., Kreutz, K.J., and Thiemens, M.H., 2004, Impact of preindustrial biomass burning emissions on the oxidation pathways of tropospheric sulfur and nitrogen, *Journal of Geophysical Research*, 109, D08303, doi:10.1029/2003JD004218.

Burns, H.W. Jr., Doner, L.A., Dorion, C.C., Jacobson, G.L. Jr., Kaplan, M.R., Kreutz, K.J., Lowell, T.V., Thompson, W.B., and Weddle, T.K., 2004, The deglaciation of Maine, U.S.A., in Ehlers, J. and Gibbard, P.L., eds., *Quaternary Glaciations – Extent and Chronology Part II: North America*, Elsevier Publishers, New York, 89-109.

Kreutz, K.J., C.P. Wake, V.B. Aizen, L.D. Cecil, J.R. Green, and Synal, H.A., 2004, Event to decadal scale glaciochemical variability on the Inilchek Glacier, Central Tien Shan, in Cecil, L.D., Thompson, L.G., and Steig, E.J., eds., *Earth Paleoenvironments: Records Preserved in Mid- and Low-Latitude Glaciers*, Kluwer Publishers, 61-79.

Bertler, N.A.N., Mayewski, P.A., Barrett, P.J., Snead, S.B., Handley, M.J., and Kreutz, K.J., 2004, Monsoonal circulation of the McMurdo Dry Valleys, Ross Sea region, Antarctica: signal from the snow chemistry, *Annals of Glaciology*, 39, 135-145.

Mayewski, P.A., Maasch, K.A., White, J.W.C., Meyerson, E.A., Goodwin, I., Morgan, V.I., van Ommen, T., Souney, J., and Kreutz, K.J., 2004, A 700 year record of Southern Hemisphere extra-tropical climate variability, *Annals of Glaciology*, 39, 127-132.

Pruett, L.E., Kreutz, K.J., Wadleigh, M., Mayewski, P.A., and Kurbatov, A., 2004, Sulfur isotopic measurements from a West Antarctic ice core: implications for sulfate source and transport, *Annals of Glaciology*, 39, 545-556.

Kreutz, K.J., Wake, C.P., Aizen, V.B., Cecil, L.D., and Synal, H.A., 2003, Seasonal deuterium excess in a Tien Shan ice core: influence of moisture transport and recycling in Central Asia, *Geophysical Research Letters*, 30(18), 1922, doi:10.1029/2003GL017896.

Kang, S., Kreutz, K.J., Mayewski, P.A., Qin, D., and Tandong, Y. 2002, Stable isotopic composition of precipitation over the northern slope of the central Himalaya. *Journal of Glaciology*, 48(163), 519-526.

- Meyerson, E.A., Mayewski, P.A., Kreutz, K.J., Meeker, L.D., Whitlow, S.I., and Twickler, M.S. 2002, The polar expression of ENSO and sea-ice variability as recorded in a South Pole ice core. *Annals of Glaciology*, 35, 430–436.
- Kang, S., Mayewski, P.A., Qin, D., Yan, Y., Hou, S., Zhang, D., and Kreutz, K.J. 2002, Glaciochemical records from a Mt. Everest ice core: relationship to atmospheric circulation over Asia. *Atmospheric Environment*, 36(21), 3351-3361.
- Dorion, C.C., Balco, G.A., Kaplan, M., Kreutz, K.J., Wright, J., and Borns, H.W. Jr. 2001, Stratigraphy, paleoceanography, chronology, and environment during deglaciation of eastern Maine. In Weddle, T.K., and Retelle, M.J., eds., *Deglacial History and Relative Sea-Level Changes, Northern New England and Adjacent Canada*, Geological Society of America Special Paper 351, p. 215-242.
- Kreutz, K.J., Aizen, V.B., Cecil, L.D., and Wake, C.P. 2001, Oxygen isotopic and soluble ionic composition of precipitation recorded in a shallow firn core, Inilchek Glacier (Central Tien Shan). *Journal of Glaciology*, 47(159), 548-554.
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