

Curriculum Vitae Gifford H. Miller

Education:	BA - Geological Sciences, Univ. Colorado, Boulder, CO, 1970 PhD - Geological Sciences, Univ. Colorado, Boulder, CO, 1975
Career:	
1969-1974	Research Assistant, INSTAAR and Teaching Assistant, Geological Sciences, University of Colorado
1974-1976	Postdoctoral Fellow, Geophysical Laboratory, Washington, DC. Studying amino acid diagenesis with P.E. Hare.
1975-1980	Research Associate, INSTAAR; Assistant Professor, Attendant Rank, Geological Sciences; Director of the Amino Acid Geochronology Laboratory, emphasis on dating marine and non-marine carbonate fossils
1979-1980	Visiting Professor, Geological Institute., University of Bergen, Norway
1980-1985	Associate Professor, Attendant Rank, Geological Sciences and Research Associate, INSTAAR, Univ. Colorado, Boulder, CO
1981-1983	Associate Director, INSTAAR
1986-1992	Associate Professor, Geological Sciences; Director, Center for Geochronological Research; INSTAAR Fellow, Univ. Colorado, Boulder
1991-1992	Visiting Fellow, Environmental Geochemistry Group, Research School of Earth Sciences, Australian National University, Canberra, Australia
1992-present	Professor, Geological Sciences; Director, Center for Geochronological Research; INSTAAR Fellow, University of Colorado, Boulder.
1993-1998	Chairman, Department of Geological Sciences
1998-1999	Visiting Fellow, Environmental Processes, Research School of Earth Sciences, Australian National University, Canberra, ACT 0200 Australia
2005-2006	Visiting Fellow, Earth Environment, Research School of Earth Sciences, Australian National University, Canberra, ACT 0200 Australia
2009-present	Professor, Earth Science Institute, University of Iceland, Reykjavik
2010-2017	Associate Director, INSTAAR
2014	Acting Director, INSTAAR
2014-2017	Adjunct Professor, Curtin University, Perth Australia
2017-present	Interim Director, INSTAAR

Awards and Honors

Elected Fellow of the Geological Society of America, 1986
Easterbrook Distinguished Scientist Award, Quaternary Geology and Geomorphology Division, Geological Society of America. 2005
Norwegian Academy of Science and Letters, Elected Foreign Member, 2008
Elected Fellow of the American Geophysical Union, 2009
Distinguished Career Award, American Quaternary Association, 2018

Professional Societies:

Geological Society of America
American Quaternary Association (Councilor, Geophysics and Geochemistry, 1986-1990)
American Geophysical Union
Quaternary Research Association (UK)
Australian Quaternary Association

Professional Positions:

Scientific Advisory Board, Alliance for Climate Education (www.acespace.org). 2010-2014
National Science Foundation, Div. Polar Programs; Scientific Advisory Board 1983-1985.
LIGA (Last interglacial in the Arctic & Subarctic) US Representative to task group (1990-1993)
NSF's Paleoclimate of Arctic Lakes and Estuaries) Co-Chair 1994-1998; StCom (1991-2001)
PARCS (NSF's Paleoenvironmental Arctic Research) Steering Committee (2001-2008).
CAPE (CircumArctic PaleoEnvironments), within IGBP-PAGES. Co-Chair 1996-2004.
CCSP SAP1.2: Arctic Paleoclimate. Lead Author 2006-2009
National Research Council "The Arctic in the Anthropocene: Emerging Research Questions"
 Lead Author of one chapter 2012-2014
SEARCH Scientific Advisory Committee 2017-

Editorial Boards:

Quaternary Science Reviews, International Editorial Board (1988-2018)
Journal of Quaternary Sciences, International Editorial Board (1987-1996)
Geology, Editorial Board (1992-1994)
Quaternary Geochronology, International Editorial Board (1993-)
Jökull, Editorial Board (2003-2012)

Courses taught:

Geology 1060/1070	Global Change: an Earth Science Perspective
Geology 3040	The Geological Record of Global Change
Geology 4500	Critical Thinking in the Earth Sciences
Geology 4070	Paleoclimatology
Geology 555	Amino Acid Geochronology
Geology 5420	Quaternary Dating Methods/Quaternary Stratigraphy
Geology 6530	Seminar: Advanced Geomorphology
Geology 5700	Various seminars on Quaternary Stratigraphy and Paleoclimatology

Selected Refereed Journal Publications since 2001

2001

Sauer, P.E., **Miller, G.H.**, and Overpeck, J.T., 2001: Oxygen isotope ratios of organic matter in arctic lakes as a paleoclimate proxy: field and laboratory investigations. *J. Paleolimnology* 25: 43-64.

Kaplan, M.R., **Miller, G.H.** and Steig, E.J., 2001: Low-gradient outlet glaciers (ice streams?) drained the Northeastern Laurentide ice sheet. *Geology*. 29: 343-346.

CAPE Project Members, 2001: Holocene paleoclimate data from the Arctic: testing models of global climate change. *Quaternary Science Reviews* 20: 1275-1287. (**GHM** is lead author on this paper)

Miller, G.H., Geirsdóttir, Á., Koerner, R.M., 2001: Climate Implications of Changing Arctic Sea Ice. *Eos*, 82: 97&103.

Turney, C.S.M, Bird, M.I., Fifield, L.K., Roberts, R.G., Smith, M.A., Dortch, C.E., Grün, R., Lawson, E., Ayliffe, L.K., **Miller, G.H.**, Dortch, J., and Cresswell, R.G., 2001: Early human occupation at Devil's Lair, southwestern Australia 50,000 years ago. *Quaternary Research*, 55: 3-13.

Moore, J.J., Hughen, K.A., **Miller, G.H.** and Overpeck, J.T., 2001: Little Ice Age recorded in summer temperature reconstruction from varved sediments of Donard Lake, Baffin Island, Canada. *Journal Paleolimnology*, 25: 503-517.

Manley, W. F., and **Miller, G. H.**, 2001: Glacial-geological record on southern Baffin Island reflecting late glacial ice-sheet dynamics in the eastern Hudson Strait region, In: Marine Geology of Hudson Strait and Ungava Bay, Eastern Arctic Canada: Late Quaternary Sediments, Depositional Environments, and Late-Glacial-Deglacial History Derived from Marine and Terrestrial Studies, (ed .) MacLean, B.: Geological Survey of Canada Bulletin 566: 19-30.

Wyrwoll, K.-H. and **Miller, G.H.**, 2001: Initiation of the Australian Summer Monsoon 14,000 years ago. *Quaternary International*, 83-85:119-128.

Dyke, A.S., Andrews, J.T., Clark, P.U., England, J., **Miller, G.H.**, Shaw, J., and Veillette, J.J. 2001. Radiocarbon dates pertinent to defining the last glacial maximum for the Laurentide and Innuitian ice sheets. *Geological Survey of Canada, Open File 4120*, 54 pp.

2002

Miller, G.H., Wolfe, A.P., Steig, E.J., Sauer, P.E., Kaplan, M.R. and Briner, J.P., 2002: The Goldilocks Dilemma: Big Ice, Little Ice, or "Just-Right" Ice in the Eastern Canadian Arctic. *Quaternary Science Reviews*, 21: 33-48.

Dyke, A.S., Andrews, J.T., Clark, P.U., England, J.H., **Miller, G.H.**, Shaw, J., and Veillette, J.J., 2002: The Laurentide and Innuitian Ice Sheets during the Last Glacial Maximum. *Quaternary Science Reviews*, 21: 9-31.

Kaplan, M.R., Wolfe, A.P., and **Miller, G.H.**, 2002: Holocene environmental variability in southern Greenland inferred from lake sediments. *Quaternary Research* 58: 149-159

Pasveer, J., Clarke, S.J., & **Miller, G.H.**, 2002. Late Pleistocene human occupation of inland rainforest, Bird's Head, Papua. *Archaeology in Oceania* 37: 92-95.

2003

Smith, L.M., **Miller, G.H.**, Otto-Bliesner, B., and Shin, S.I., 2003: Sensitivity of the Northern Hemisphere climate system to extreme changes in Arctic sea ice. *Quaternary Science Reviews* 22: 645-658.

Pack, S.M., **Miller, G.H.**, Fogel, M.L, and Spooner, N.A., 2003: Late Pleistocene carbon isotopic evidence for increased aridity in the northwest outback of Australia. *Quaternary Science Reviews* 22: 629-643

Kaplan, M.R. and **Miller, G.H.**, 2003: Early Holocene deleveling and deglaciation of the Cumberland Sound region and southeastern Baffin Island, Arctic Canada. *Geological Society America Bulletin*, 115: 445-462.

Briner, J.P., **Miller, G.H.**, Davis, P.T., Bierman, P.R. and Caffee, M., 2003: Last Glacial Maximum ice sheet dynamics in Arctic Canada inferred from young erratics perched on ancient tors. *Quaternary Science Reviews* 22: 437-444.

Bird, M.I., Turney, C.S.M., Fifield, L.K., Smith, M.A. and **Miller, G.H.**, Roberts, R.G. and Magee, J.W., 2003: Radiocarbon dating of organic- and carbonate-carbon in *Genyornis* and *Dromaius* eggshell using stepped combustion and stepped acidification. *Quaternary Science Reviews* 22: 1805-1811.

2004

Magee, J.W., **Miller, G.H.**, Spooner, N.A., and Questiaux, D., 2004: A continuous 150,000 yr monsoon record from Lake Eyre, Australia: Insolation forcing implications and unexpected Holocene failure: *Geology*, v. 32, p. 885-888.

DeVogel, S.B., Magee, J.W., Manley, W.F., and **Miller, G.H.**, 2004: A GIS-based reconstruction of late Quaternary paleohydrology: Lake Eyre, arid central Australia. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 204: 1-13.

Wooller, M.J., Francis, D., Fogel, M.L., **Miller, G.H.**, Walker, I.R., and Wolfe, A.P., 2004: Quantitative paleotemperature estimates from $\delta_{18}O$ of chironomid head capsules preserved in arctic lake sediments. *J. Paleolimnology* 31: 267-274.

Kaufman, D.S., Ager, T.A., Anderson, N.J., Anderson, P.M., Andrews, J.T., Bartlein, P.J., Brubaker, L.B., **Miller, G.H.**, and 22 others, 2004: Holocene thermal maximum in the western Arctic (0-180°W). *Quaternary Science Reviews*, 23: 529-560

Black, J., **Miller, G.**, Geirsdottir, A., Manley, W., and Björnsson, H., 2004: Sediment thickness and Holocene erosion rates derived from a seismic survey of Hvítárvatn, central Iceland. *Jökull* 54, 37-56.

2005

Johnson, B.J., **Miller, G.H.**, Magee, J.W., Gagan, M.K., Fogel, M.L., Quay, P., 2005: Carbon Isotope evidence for an abrupt reduction in grasses coincident with European settlement of Lake Eyre, South Australia. *The Holocene*, 15: 888-896.

Wolfe, A. P., **Miller, G. H.**, Olsen, C., Forman, S. L., Doran, P. T., and Holmgren, S. U., 2005: Geochronology of high-latitude lake sediments. In "Long-term Environmental Change in Arctic and Antarctic Lakes." (R. Pienitz, Douglas, M.S.V.; Smol, J.P., Ed.), pp. 550. Developments in Paleoenvironmental Research. Springer, New York. Pp 19-52

Briner, J.P., Miller, G.H., Davis, P.T., and Finkel, R., 2005: Cosmogenic exposure dating in Arctic glacial landscapes: implications for the glacial history of the Northeastern Baffin Island, Arctic Canada. *Canadian Journal of Earth Sciences*, 42: 67-84

Miller, G.H., Mangan, J., Pollard, D., Thompson, S.L., Felzer, B.S., and Magee, J.W., 2005: Sensitivity of the Australian Monsoon to insolation and vegetation: Implications for human impact on continental moisture balance. *Geology* **33**: 65-68.

Miller, G. H., Fogel, M. L., Magee, J. W., Gagan, M. K., Clarke, S., and Johnson, B. J., 2005: Ecosystem Collapse in Pleistocene Australia and a Human Role in Megafaunal Extinction. *Science* **309**, 287-290.

Miller, G. H., Wolfe, A.P., Briner, J.P., Sauer, P.E., Nesje, A., 2005: Holocene glaciation and climate evolution of Baffin Island, Arctic Canada. *Quaternary Science Reviews*, **24**: 1703-1721.

Forman, S. L., Marín, L., Pierson, J., Gómez, J., **Miller, G. H.**, and Webb, R. S., 2005: Aeolian sand depositional records from western Nebraska: landscape response to droughts in the past 1500 years. *The Holocene*, **15**: 973-981.

Clarke, S.J. and Miller, G.H., 2005. Isoleucine epimerization in *Casuarinus* eggshells from archaeological sites in the Aru Islands, Liang Lemdubu and Nabulei Lisa. *Terra Australis*, vol. 22, Pandanus Books, Canberra, pp. 295-306.

2006

Otto-Bliesner, B.L., Marshall, S.J., Overpeck, J.T., **Miller, G.H.**, Hu, A. and CAPE Last Interglacial Project Members, 2006. Simulating Arctic Climate Warmth and Icefield Retreat in the Last Interglaciation. *Science* 311: 1751-1753.

Overpeck, J.T., Otto-Bliesner, B.L., **Miller, G.H.**, Muhs, D.R., Alley, R.B., and Kiehl, J.T., 2006. Paleoclimatic Evidence for Future Ice Sheet Instability and Rapid Sea Level Rise. *Science*, 311: 1747-1750.

Davis, P.T., Briner, J.P., **Miller, G.H.**, and Coulthard, R., 2006. Preservation of landscapes overridden by cold-based ice sheets. *Quaternary Research* 65: 156-163.

Briner, J.P., **Miller, G.H.**, Davis, P.T. and Finkel, R.C., 2006. Cosmogenic radionuclides from fiord landscapes support differential erosion by overriding ice sheets. *Geological Society America Bulletin*, 118: 406-420.

Francis, D.R., Wolfe, A.P., Walker, I.R. and **Miller, G.H.** 2006. Interglacial and Holocene temperature reconstructions based on midge remains in sediments of two lakes from Baffin Island, Nunavut, Arctic Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 236: 107-124.

Fréchette, B., Wolfe, A.P., **Miller, G.H.**, Richard, P.J.H., and deVernal, A. 2006. Palynology, vegetation and climate of the last interglacial on Baffin Island, Arctic Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 236: 91-106.

Briner, J.P., Michelutti, N., Francis, D.R., **Miller, G.H.**, Axford, Y., Wooller, M.J., and Wolfe, A.P. 2006. A multi-proxy lacustrine record of Holocene climate change on northeastern Baffin Island, Arctic Canada. *Quaternary Research*, 65: 431-442.

Clarke, S.J., **Miller, G.H.**, Fogel, M.L., Chivas, A.R., and Murray-Wallace, C.V. 2006. The amino acid and stable isotope biogeochemistry of elephant bird (*Aepyornis*) eggshells from southern Madagascar. *Quaternary Science Reviews*, 25: 2343-2356.

CAPE Last Interglacial Project Members, 2006. Last Interglacial Arctic warmth confirms polar amplification of climate change. *Quaternary Science Reviews* 25: 1383-1400 (Miller is lead author).

Miller, G.H., Briner, J.B., Lifton, N.A., and Finkel, R.C., 2006. Limited ice-sheet erosion and complex exposure histories derived from in situ cosmogenic ^{10}Be , ^{26}Al , and ^{14}C on Baffin Island, Arctic Canada. *Quaternary Geochronology* 1: 74-85.

Miller, G.H., 2006. Obituary: Peter Edgar Hare. *Quaternary Geochronology*, 1: 87-88.

2007

Miller, G.H. and Clarke, S.J., 2007. Amino acid Dating. (In) *Encyclopedia of Quaternary Sciences*, Elsevier pp. 41-52

Miller, G.H., Magee, J.W., Fogel, M.L., and Gagan, M.K. 2007. Detecting human impacts on the flora, fauna, and summer monsoon of Pleistocene Australia. *Climate of the Past* 3: 463-473.

Geirsdottir, A., **Miller, G.H.**, and Andrews, J.T. 2007. Glaciation, erosion, and landscape evolution of Iceland. *J. Geodynamics* 43:170-186. doi:10.1016/j.jog.2006.09.017

Briner, J.P., Overeem, I., **Miller, G.H.**, Finkel, R.C. 2007. The deglaciation of Clyde Inlet, northeastern Baffin Island, Arctic Canada. *Journal Quaternary Sciences*, 22: 223-232.

Clarke, S.J., **Miller, G.H.**, Murray-Wallace, C.V., David, B., and Pasveer, J.M. 2007. The geochronological potential of isoleucine epimerisation in cassowary and megapode eggshells from archaeological sites. *Journal Archaeological Science* 34: 1051-1063.

Briner, J.P., Axford, Y., Forman, S.L., **Miller, G.H.**, and Wolfe, A.P., 2007. Multiple generations of interglacial lake sediment preserved beneath the Laurentide Ice Sheet. *Geology*, 35: 887-890.

Michelutti, N., Wolfe, A.P., Briner, J.P., Miller, G.H., 2007. Climatically controlled chemical and biological development in Arctic lakes. *Journal of Geophysical Research Biogeosciences* 112, doi:10.1029/2006JG000396 (2007).

Brook, B.W., Bowman, B.M.J.S., Burney, D.A., Flannery, T.F., Gagan, M.K., Gillespie, R., Johnson, C.N., Kershaw, A.P., Magee, J.W., Martin, P.S., **Miller, G.H.**, Peiser, B., Prideaux, G.J., and Roberts, R.G., 2007. Would the Australian megafauna have become extinct if humans had never colonised the continent? Comments on "A review of the evidence for a human role in the extinction of Australian megafauna and an alternative explanation" by S. Wroe and J. Field. *Quaternary Science Reviews* 26: 560-564. doi:10.1016/j.quascirev.2006.10.008

Axford, Y., **Miller, G.H.**, Geirsdóttir, Á., Langdon, P.G., 2007. Holocene temperature

history of northern Iceland inferred from subfossil midges. *Quaternary Science Reviews*, **26**: 3344–3358

Flowers, G.E., Björnsson, H., Geirsdóttir, Á., **Miller, G.H.**, and Clarke, G.K.C., 2007. Glacier fluctuation and inferred climatology of Langjökull ice cap through the Little Ice Age. *Quaternary Science Reviews*, **26** : 2337-2353

2008

Anderson, R.K., **Miller, G.H.**, Briner, J.P., Lifton, N.A., and DeVogel, S.B. 2008. A millennial perspective on Arctic warming from ¹⁴C in quartz and plants emerging beneath ice caps, *Geophysical Research Letters* **35**, L01502, doi:10.1029/2007GL032057

Miller, G.H. 2008. Greenland's elusive Younger Dryas (Context). *Quaternary Science Reviews*, **27**: 2271-2272. doi:10.1016/j.quascirev.2008.10.001

Miller, G.H. 2008. Dating: Amino Acid Geochronology. (in V. Gornitz ed.) *Encyclopedia of Paleoclimatology and Ancient Environments*. Kluwar

Geirsdóttir, Á., **G. H. Miller**, N. J. Wattus, H. Björnsson, and K. Thors (2008), Stabilization of glaciers terminating in closed water bodies: Evidence and broader implications, *Geophys. Res. Lett.*, **35**, L17502, doi:10.1029/2008GL034432.

Shanahan, T.M., Overpeck, J.T., Hubeny, J.B., King, J., Hu, F.S., Huguen, K., **Miller, G.**, and Black, J. 2008. Scanning m-XRF elemental mapping: a new tool for the study of laminated sediment records. *Geochemistry, Geophysics, Geosystems* **9**: Q02016, doi:10.1029/2007GC001800.

Briner, J.P., **Miller, G.H.**, Finkel, R., and Hess, D.P. 2008. Glacial erosion at the fjord onset zone and implications for the organization of ice flow on Baffin Island, Arctic Canada. *Geomorphology*, **97**: 126-134, doi:10.1016/j.geomorph.2007.02.039

Geirsdóttir, Á., **G. H. Miller**, T. Thordarson, and K. Olafsdottir, 2008. A 2000 year record of climate variations reconstructed from Haukadalsvatn, West Iceland. *Journal of Paleolimnology* DOI 10.1007/s10933-008-9253-z

Flowers, G.E., Björnsson, H., Geirsdóttir, Á., **Miller, G.H.**, Black, J.L., and Clarke, G.K.C., 2008. Holocene climate conditions and glacier variation in central Iceland from physical modelling and empirical evidence. *Quaternary Science Reviews* **27**: 797–813

Fréchette, B., de Vernal, A., Guiot, J., Wolfe, A.P., **Miller, G.H.**, Fredskild, B., Kerwin, M.W., Richard, P.J.H, 2008. Methodological basis for quantitative reconstruction of air temperature and sunshine from pollen assemblages in Arctic Canada and Greenland. *Quaternary Science Reviews*, **27**, 1197-1216, doi:10.1016/j.quascirev.2008.02.016.

Koc, N. Francus, P., Anderson, D.M., Bradley, R., Kaufman, D., Korhola, A., and **Miller, G.**, 2008. Generating and Synthesizing Paleoclimate Data to Assess Arctic Climate Change. *Eos, Transactions, American Geophysical Union*, v.89 (27) doi:10.1029/2008EO270007

Magee, J.W., **Miller, G.H.**, Spooner, N.A., Questiaux, D.G., McCulloch, M.T., and Clark, P.A., 2008. Evaluating Quaternary dating methods: radiocarbon, U-series, luminescence,

and amino acid racemisation dates of a late Pleistocene emu egg. *Quaternary Geochronology*, 22: 1805-1812. 10.1016/j.quageo.2008.10.001

2009

Kaufman, D.S., Schneider, D.P., McKay, N.P., Ammann, C.M., Bradley, R.S., Briffa, K.R., **Miller, G.H.**, Otto-Bliesner, B.L., Overpeck, J.T., Vinther, B.M., Arctic Lakes 2k Project Members, 2009. Recent Warming Reverses Long-Term Arctic Cooling. *Science*, 235: 1236-1239.

Axford, Y., Briner, J.P., **Miller, G.H.**, and Frances, D.R., 2009. Paleoecological evidence for abrupt cold reversals during peak Holocene warmth on Baffin Island, Arctic Canada. *Quaternary Research*, 71: 142-149.

Axford, Y., Briner, J.P., Cooke, C.A., Francis, D.R., Michelutti, N., **Miller, G.H.**, Smol, J.P., Thomas, E.K., Wilson, C.R., Wolfe, A.P., 2009. Recent changes in a remote Arctic lake are unique within the past 200,000 years. *Proceedings of the National Academy of Sciences* 106, 18443-18446. doi: 10.1073/pnas.0907094106

Briner, J.P., Davis, P.T., and **Miller, G. H.**, 2009. Latest Pleistocene and Holocene glaciation of Baffin Island: Key patterns and chronologies. *Quaternary Science Reviews*, v. 28, p. 2075-2087.

Geirsdóttir, Á., **Miller, G.H.**, Axford, Y. and Ólafsdóttir, S. 2009. Holocene glacier and climate history of Iceland. *Quaternary Science Reviews* 28, 2107-2118.

Hannesdottir, H., Geirsdottir, A., **Miller, G.H.**, Manley, W., and Wattrus, N., 2009, Deglacial and Holocene sediment distribution in Hestvatn, South Iceland, derived from a seismic and multibeam survey: *Jokull*, no. 59: 67-88.

Alley, R.B., Brigham-Grette, J., **Miller, G.H.**, Polyak, L, and White, J.W.C., 2009: Executive Summary. In *Past Climate Variability and Change in the Arctic and at High Latitudes*. A report by the U.S. Climate Change Program and Subcommittee on Global Change Research. U.S. Geological Survey, Reston , VA, pp. 1 -7.

Fitzpatrick, J.J., Alley, R.B., Brigham-Grette, J., **Miller, G.H.**, Polyak, L, and Serreze, M., 2009: Preface. In *Past Climate Variability and Change in the Arctic and at High Latitudes*. A report by the U.S. Climate Change Program and Subcommittee on Global Change Research. U.S. Geological Survey, Reston, VA, pp. 8 – 21.

Alley, R.B., Fitzpatrick, J.J., Brigham-Grette, J., **Miller, G.H.**, Muhs, D., and Polyak, L., 2009: Paleoclimate Concepts. In *Past Climate Variability and Change in the Arctic and at High Latitudes*. A report by the U.S. Climate Change Program and Subcommittee on Global Change Research. U.S. Geological Survey, Reston , VA, pp. 22 – 76.

Miller, G.H., Brigham-Grette, J., Anderson, L., Bauch, H., Douglas, M.A., Edwards, M.E., Elias, S., Finney, B., Funder, S., Herbert, T., Hinzman, L., Kaufman, D.K., MacDonald, G., Robock, A., Serreze, M., Smol, J., Spielhagen, R., Wolfe, A.P., Wolff, E., 2009: Temperature and Precipitation History of the Arctic. In *Past Climate Variability and Change in the Arctic and at High Latitudes*. A report by the U.S. Climate Change Program and

Subcommittee on Global Change Research. U.S. Geological Survey, Reston, VA, pp. 77 – 246.

White, J.W.C., Alley, R.B., Jennings, A., Johnsen, S., **Miller, G.H.**, and Nerem, S., 2009: Past Rates of Climate Change in the Arctic. In Past Climate Variability and Change in the Arctic and at High Latitudes. A report by the U.S. Climate Change Program and Subcommittee on Global Change Research. U.S. Geological Survey, Reston, VA, pp. 247 – 302.

Alley, R.B., Brigham-Grette, J., **Miller, G.H.**, Polyak, L., and White, J.W.C., 2009: Key Findings and Recommendations. In Past Climate Variability and Change in the Arctic and at High Latitudes. A report by the U.S. Climate Change Program and Subcommittee on Global Change Research. U.S. Geological Survey, Reston, VA, pp. 421 – 430.

Axford, Y., Geirsdóttir, Á., **Miller, G.H.**, and Langdon, P.G. 2009. Climate of the Little Ice Age and the last 2000 years in northeast Iceland inferred from chironomids and other lake sediment proxies. *Journal of Paleolimnology* 41, 7-24; 10.1007/s10933-008-9251-1

2010

Miller, G.H., Alley, R.B., Brigham-Grette, J., Fitzpatrick, J.J., Polyak, L., Serreze, M., and White, J.W.C., 2010: Arctic Amplification: Can the Past Constrain the Future? *Quaternary Science Reviews*. v.29: 1779–1790. doi:10.1016/j.quascirev.2010.02.008

Miller, G.H., Brigham-Grette, J., Anderson, L., Alley, R.B., Bauch, H., Douglas, M.S.V., Edwards, M.E., Elias, S., Finney, B., Fitzpatrick, J.J., Funder, S., Herbert, T., Hinzman, L., Kaufman, D.K., MacDonald, G., Polyak, L., Robock, A., Serreze, M., Smol, J., Spielhagen, R., White, J.W.C., Wolfe, A.P., Wolff, E., 2010: Temperature and Precipitation History of the Arctic. *Quaternary Science Reviews*. v. 29: 1679-1715. doi:10.1016/j.quascirev.2010.03.001

Polyak, L., Alley, R.B., Andrews, J. T., Brigham-Grette, J., Darby, D., Dyke, A., Fitzpatrick, J.J., Funder, S., Holland, M., Jennings, A., **Miller, G.H.**, Savelle, J., Serreze, M., White, J.W.C., Wolff, E., 2009: History of Sea Ice in the Arctic. *Quaternary Science Reviews*. v. 29: 1757–1778. doi:10.1016/j.quascirev.2010.02.010

Fitzpatrick, J.J., Alley, R.B., Brigham-Grette, J., **Miller, G.H.**, Polyak, L., and White, J.W.C., 2010. Arctic Paleoclimate Synthesis Thematic Papers - Introduction. *Quaternary Science Reviews*, v. 29: 1674-1678. doi:10.1016/j.quascirev.2009.09.016

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