CURRICULUM VITAE

**Gregory C. Wiles**

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**EDUCATION**

State University of New York at Buffalo Ph.D., Geology, 1992

State University of New York at Binghamton M.S., Geology, 1987

Beloit College B.S., Geology, 1984

**TEACHING**

*Professor (2010-present), Associate Professor (2003-2009), Assistant Professor (1998-2003),* Department of Earth Sciences, The College of Wooster.

*Visiting Assistant Professor*, Department of Geology, Macalester College, 1996-1998.

**RESEARCH EXPERIENCE**

Columbia University, Lamont-Doherty Earth Observatory, Adjunct Senior Research Scientist, 2019-present

Fellow of the Geological Society of America, 2019

Columbia University, Lamont-Doherty Earth Observatory, Associate Research Scientist 1995-2018

Lamont-Doherty Post-Doctoral Fellowship 1993-1995

**RESEARCH GRANTS**

# Keck Geology Consortium - Climate and Tree Growth in a Temperate Coastal Rainforest, Southeast Alaska ($49,625) G. Wiles and N. Wiesenberg, coPIs, Summer 2025, support for 5 students for research in the Wooster Tree Ring Lab and Angoon, Alaska, Summer 2025.

# NSF – EAR 2039939: Collaborative Research: Tapping an unused biomarker for insights of past evaporation ($98,763), 3 years of funding to work on the hydroclimate of the Midwest, G. Wiles, PI, M. Wilson, coPI, 08/01/2021 – 07/31/2025.

**Henry Luce III Fund for Distinguished Scholarship –** Radiocarbon funds for investigating erosion in the Wooster, Ohio region, 2022, $3,500.

**NSF-GP-2023154:** Applied Geosciences at the Soil, Water and Energy Nexus ($295,878), 3 years of funding for increasing participation of underrepresented groups in the Geosciences, M. Pollock. PI, G. Wiles, coPI, 10/01/20 – 09/31/23.

**NSF-AGS-2002454** Collaborative Research P2C2 – RUI – Extending key records of Holocene climate change and glacier fluctuations in the North Pacific region using subfossil wood from Southeastern Alaska ($130,265 Wooster portion), 3 years of funding for work in the Gulf of Alaska. 06/01/20-05/31/23.

**Henry Luce III Fund for Distinguished Scholarship –** Fieldwork and Outreach on Chichagof Island, Hoonah, Alaska, (2019) $3,100.

**Sherman Fairchild Foundation –** Summer support for three students and Nick Wiesenberg (Geological technician). Investigations in tree-ring dating and climate reconstruction, Wooster, Ohio and the Gulf of Alaska, summer 2020, $20,400

**National Geographic Society Grant**: Ancient ghost forests describe how Alaska’s glaciers and cedar trees responded to past warming events: Investigators: B. Gaglioti and L. Andreu-Hayles, Lamont- Doherty Earth Observatory of Columbia University, D. Mann, University of Alaska Fairbanks, Lauren E. Oakes, Stanford University, Greg Wiles, The College of Wooster, $21,100.

**NSF-AGS-1502186** Collaborative Research: P2C2 – Spatiotemporal Variability of Northwestern North American Temperatures in Response to Climatic Forcing ($148,000, Wooster portion), 3 years of funding for work in the Gulf of Alaska and to establish new technologies in the Wooster Tree Ring Lab and travel in coastal regions of Alaska (with R.D’Arrigo, K.Anchikaitus). 5/01/2015 – 4/31/2019.
**Keck Geology Consortium** - Exploring geochronology: dating young lava flows and old trees in Decline, PI Meagen Pollock ($79,200) 9-student REU for beginning geoscience students from underrepresented groups, Summer 2017 (support for work in Alaska and Utah).
**National Geographic Grant** – Testing for Divergence During the Medieval Warm Period, Columbia Bay, Alaska: $18,500 (summer 2014, extended to summer 2015).
**Henry Luce III Fund for Distinguished Scholarship** – Isotopic Analyses of the Cedar Creek Mastodon Bog Core, Ohio, 2014, $4,800.
**NSF- AGS – 1202218** Collaborative Research: P2C2--Tree-Ring Reconstructions of Western North Pacific Climate Dynamics ($150,000 Wooster portion), 3 years of funding work in the Russian Fareast (with R. D’Arrigo and K. Anchikaitus). 5/01/2012 – 4/31/2016.
**Hewlett-Mellon Presidential Discretionary Fund –** Funding for technical support for the Department of Geology and Fern Valley, ($36,000; May 2014 – May 2016). Geology’s technician is supported through this grant and NSF research grants. **NSF-ATM-0902799** Collaborative Research: Reconstructing North Pacific Climate Variability using a Multi-Millennial Tree-Ring Resource for Glacier Bay, Alaska ($93,917, Wooster portion) (with Lawson and R. D’Arrigo) 10/16/2008 - 10/15/2012. **Center for Creativity and Innovation** (The College of Wooster) – Tree-Ring Dating of Historical Structures in Somerset Ohio, Spring/Summer 2011 - 2012, $5,200 each year. **NSF – EAR-** [**0958928**](https://www.fastlane-beta.nsf.gov/researchadmin/viewProposalStatusDetails.do?propId=0958928&performOrg=College%20of%20Wooster): Acquisition of an X-Ray Diffractometer (XRD) and X-Ray Fluorescence Spectrometer (XRF) to Enhance Undergraduate Research at a Primarily Undergraduate Institution (PUI), (M. Pollock, PI, S. Judge, G. Wiles, coPIs) 1/1/10 - 12/31/11 $295,961.
**Mellon Foundation** - A GIS-Based Photographic Archive Chronicling Environmental Change in Northeast Ohio (with S, Judge and J. Clemons), Next Generation Library Grant, $5,500, (archive at http://drc.wooster.edu/handle/2374.COLLW/11).
**Center for Creativity and Innovation (The College of Wooster**) – Tree-Ring Dating of Historical Structures in Ohio and PA, Summer 2009, $14,000.
**Keck Geology Consortium** - The Geomorphology and Dating of Holocene high-water levels on the Kenai Peninsula, Alaska (summer 2009) with Alaska Fish and Wildlife Service and the Alaska State Geological Survey, $16,900.
**Alaska Fish and Wildlife Service:** The Geomorphology and Dating of Holocene high-water levels on the Kenai Peninsula, Alaska (summer 2009) – matching funds requested for support of lake studies in the Kenai Wildlife Refuge, $10,000.
**Center for Creativity and Innovation (The College of Wooster) –** Tree-Ring Dating of Historical Structures in Ohio, Summer 2008, $9,500.
**National Geographic Research Grant -** Development and analysis of millennia-long tree-ring records from Glacier Bay National Park and Preserve, Alaska (GRANT #8246-07), $19,500.
**Keck Geology Consortium Grant –** Paleoclimate of Glacier Bay National Park and Preserve, support for three students for tree-ring and glacier research in Glacier Bay National Park, Alaska, $16,900.
**Luce Fund for Distinguished Scholarship (The College of Wooster) –** Updating Tree Ring Records and Glacial Histories at Wolverine and Exit Glaciers – Southcentral Alaska, 11/23/08-11/23//09, $5,890.
**NSF – ATM-0202898** - coPI, Development and Analysis of Climatically-Sensitive Tree-Ring Chronologies from Data Sparse Sites along the North Pacific Rim (with R.D. D'Arrigo and Brendan Buckley, Columbia University), 7/1/02-6/31/06), $339,566.
**Luce Fund for Distinguished Scholarship (The College of Wooster)** – Development and analysis of millennia-long tree-ring records from Glacier Bay National Park and Preserve, Alaska**,** summer 2006, $4,700.
**Hewlett-Mellon (The College of Wooster)–** Grant forGeophysical and Geospatial Data Collection for Class Use and Student and Faculty Research (with P. Kardulias, Archaeology and R. Varga, Geology), $33,700.
**National Geographic Research Grant -** A Thousand Year Glacial and Temperature History from College Fiord, Southern Alaska, with Lucio Cunha (University of Coimbra, Portugal) and Joao Santos (Oklahoma State University). Collaborative project funded by the Global Exploration Fund, NGS, 2004-05, $10,000.

**The Henry Luce Foundation (The College of Wooster)** – Participant,Funds to initiate *The Environmental Analysis and Action Program* at The College of Wooster, an interdisciplinary program built around student faculty research and policy implications of this work, 1/1/05- 12/31/07, $270,000.

**Luce Fund for Distinguished Scholarship –** Climate Change and Geomorphic History of Northeast Ohio, funds for the study of alluviation and its relation to recent climate change, 11/18/03-8/31/05, $4,680. **Keck Geology Consortium Grant** - The Glacial/Interglacial Transition: The Record from Ohio’s Lakes and Bogs: with Donald Pair (University of Dayton) and Thomas V. Lowell (University of Cincinnati), Summer 2002. Support for nine students to travel to Alberta, Canada to study modern glacial environments and to core bogs and lakes in southwestern Ohio, summer 2002. ($65,000).
**NSF** **- ATM99-10805** PI, Tree-Ring Based Records of Temperature and Glacial Fluctuation Spanning the Past Two Millennia, Prince William Sound, Alaska (collaborative project with P.E. Calkin, University of Colorado), The College of Wooster Participation 5/1/00-4/31/02. This contract supported 7 College of Wooster students for travel to field sites in Alaska and lab work at Wooster. $268,570 total, $40,621 Wooster portion. **NOAA- NA86GP0435** coPI, Development and Analysis of Climatically-Sensitive Tree-Ring Chronologies from Data Sparse Sites along the North Pacific Rim (with G.C. Jacoby and R.D. D'Arrigo) 7/1/98 - 6/30/01. $327,614.
**NSF** - **ATM97-09095** coPI, Long-Term High-Resolution Paleoclimate in the Wrangell Mountain Range, Alaska (co-PI with G.C. Jacoby), 5/1/97-4/31/01; REU supplement for Ryan McAllister (The College of Wooster). $364,950.
**Keck Geology Consortium Grant**, Surficial Geologic Mapping and Late Wisconsin Glacial Stratigraphy of Southwest Ohio, with Donald Pair (University of Dayton) and Thomas V. Lowell (University of Cincinnati), Summer 2001. Support for eight students to travel to British Columbia, Canada to study modern glacial environments and to investigate the glacial stratigraphy of southwestern Ohio. $55,000.
**Soil Science Society of America, U.S. Geological Survey, National Resource Conservation Service and Keck Consortium**, Outreach to the Geoscience Community: A soils workshop aimed at geology faculty from undergraduate, non-land grant institutions (with Edward R. Landa, U.S. Geological  **Survey and Mary Savina, Carleton College), Fall 2001. $18,000 total.
Hewlett-Mellon Grant** for the Initiation of a Computer Laboratory for Geographic Information Systems, January 2000 (with Lyn Loveless, Biology), The College of Wooster. Contract provided support for hardware, software and student support. $40,000.
**The College of Wooster Faculty Development Grants** - Continued Investigation of Landscape Development in Northern Ohio, Spring 2000, 2001, 2004, 2005. (total $2700).
**NSF - NA56GP0235**, coPI, Development and Analysis of Climatically-Sensitive Tree-Ring Chronologies from the North Pacific Rim (with R.D. D'Arrigo and G.C. Jacoby) 4/1/95 - 3/31/97. $298,747.
**NSF - OPP 93-18872**, coPI, Reconstruction of Climatic History and High Resolution Dating of Glacier Fluctuations Using Tree-Ring Analysis at Icy and Yakutat Bays, Alaska (co-PI with P.E. Calkin) 5/1/94 - 4/31/97. $282,113.
**NSF - OPP 93-21213**, Researcher, West Antarctic Ice Sheet Stability: The Late Quaternary Record from Nunataks and Coastal Mountains (with H.W. Borns and P.E. Calkin) 6/01/94 - 9/01/95. $43,771.

**Memberships and Service:** Fellow of theGeological Society of America, American Geophysical Union, Tree Ring Society, Associate Editor of Tree Ring Research 2002-present, STATEMAP Advisory Council for the Ohio Department of Natural Resources 2014-present.

**PUBLICATIONS**

Research Papers (Wooster students and staff in *italics*)

*Zhao, W., Fu, J., Wiesenberg, N*., Gaglioti, B. and **Wiles, G.C**., 2024, Optimizing tree-ring blue intensity using hydrogen peroxide: an example from subfossil wood, Gulf of Alaska, USA: in revision Dendrochronologia.

Brush, N., Burks, J. Kardulias, P., **Wiles**, G., Dilyard, J. and Morton, J., 2023, Late Prehistoric Sites in the Lower Walhonding Valley of Coshocton County, Ohio during a Warm and Cool Period: Archaeology of Eastern North America, 51:157-190.

Gaglioti, B.V., Mann, D.H., **Wiles, G.C**., Andreu-Hayles, L., Hansen, W.D. and *Wiesenberg, N.,* submitted, [Forest‐wide growth rates stabilize after experiencing accelerated temperature changes near an Alaskan glacier](https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2024GL109469): Geophysical Research Letters, http: e2024GL109469.

Leland, L.C., D’Arrigo, R., Davi, N., Anchukaitis, K., Andreu-Hayles, L., Porter, T., Galloway, T., Mant, M., **Wiles, G**., Wilson, R., Beaulieu, S., Oelkers, R., Gaglioti, B., Palat Rao, M., Reid, E. and Nixon, T., in press, A spatiotemporal assessment of extreme cold in northwestern North America following the unidentified 1809 CE volcanic eruption: Paleoceanography and Paleoclimatology.

**Wiles, G.C.,** Devereux, K., Gaglioti, B.V., D’Arrigo, R.D., 2023, A 420‐Year Perspective on Winter Lake Erie Levels: Geophysical Research Letters 50 (1), doi.org/10.1029/2022GL099911.

Gaglioti, B.V. Mann, D.H., **Wiles, G.C.**, 2022, Ecosystems at Glacier Margins Can Serve as Climate‐Change Laboratories: Geophysical Research Letters 49 (13), doi.org/10.1029/2022GL098574.

Büntgen, U., A. Crivellaro, D. Arseneault, M. Baillie, D. Barclay, M. Bernabei, ...**Wiles, G**., 2022, Global wood anatomical perspective on the onset of the Late Antique Little Ice Age (LALIA) in the mid-6th century CE, Science Bulletin 67 (22), 2336-2344.

Berg, E.E., DS Kaufman, RS Anderson, **GC Wiles,** TV Lowell, EAD Mitchell, ...2022, Late-Glacial and Holocene Lake-Level Fluctuations on the Kenai Lowland, Reconstructed from Satellite-Fen Peat Deposits and Ice-Shoved Ramparts, Kenai Peninsula, Alaska, Quaternary 5 (2), <https://doi.org/10.3390/quat5020023>.

Gaglioti, B.V., Mann, D., **Wiles**, **G**. and *Wiesenberg*, N., 2021, Is the modern-day dieback of yellow-cedar unprecedented? Canadian Journal of Forest Research 51 (12), 1953-1965.

*Vargo, L*., **Wiles, G**., *Wiesenberg, N*., Williams, C. and Cochran, K., 2020, Dendroclimatic response of Metasequoia glypstroboides, Secrest Arboretum, Wooster, Ohio, USA: Ohio Journal of Science, 120(2):22-29, https://doi.org/10.18061/ojs.v120i2.7037.

# Wiles G, *Charlton J*, Wilson R, D’Arrigo R, Buma B, Krapek J, Gaglioti B, Wiesenberg N, Oelkers R., 2019, Yellow-cedar blue intensity tree ring chronologies as records of climate and forest-climate response, Juneau, Alaska, USA. Canadian Journal of Forest Research, https://doi.org/10.1139/cjfr- 2018-0525

Schijf, J., Garvin, M.C., Kaufman, S.R., Konow, C., Liang, D., Nigra, A.E., Stracker, N.H., Whelan, R.J. and **Wiles, G.,** 2019, A survey of trace metal burdens in increment cores from eastern cottonwood (Populus deltoides) across a childhood cancer cluster, Sandusky County, OH, USA: Chemosphere, <https://doi.org/10.1016/j.chemosphere.2019.124528>

# Buma B, Bisbing S, Wiles G, Bidlack A., 2019, Primary succession observations over a century do not support textbook explanations of facilitation/sequential change. Ecology. https://doi.org/10.1002/ecy.2885.

Gaglioti B.V., Mann D.H., **Wiles, G.,** Jones B.M., *Charlton, J*., Wiesenberg N., Andreu-Hayles L., 2019, Timing and potential causes of 19th-century glacier advances in coastal Alaska based on tree-ring dating and historical accounts: Frontiers in Earth Science, 7, doi:10.3389/feart.2019.00082.

# Gaglioti, B.V., Mann, D.H., Williams, A.P., Wiles, G.C., Oelkers, R., Jones, B.J., and Andreu Hayles, L., 2019. Traumatic resin ducts in Alaska: Mountain hemlock trees provide a new proxy for winter storminess: Journal of Geophysical Research, Biogeosciences, doi:10.1029/2018JG004849.

# Shah, S.K., Pandey, P., Mehrota, N., Wiles, G.C., Chandra, R., 2019, Winter temperatures for the Lidder valley, Kashmir, northwest Himalaya based on tree-rings of Pinus wallichiana: Climate Dynamics 53, 4059–4075 (2019). https://doi.org/10.1007/s00382-019-04773-6

# Freimuth, E., Diefendorf, A., Lowell, T.V., Wiles, G.C., 2019, Sedimentary n-alkanes and n-alkanoic acids in a temperate bog are biased toward woody plants: Organic Geochemistry, https://doi.org/10.1016/j.orggeochem.2019.01.006.

# Wilson, R., K Anchukaitis, L Andreu-Hayles, E Cook, R D’Arrigo, N Davi, L Haberbauer, P Krusic, B Luckman, D Morimoto, R Oelkers, G Wiles, C Wood, 2019, Improved dendroclimatic calibration using blue intensity in the southern Yukon. The Holocene, 29(11), 1817-1830, https://doi.org/10.1177/0959683619862037.

**Wiles, G.C.,** and Wiesenberg, N., 2018, Dating Ohio’s history with tree-rings: The Ohio Woodland Journal, v. 25(4), p. 18-22.

Brush, N., Burkes, J., Dilyard, J., Donaldson, R., MacDonald, G., Greenfield, H., Hannan, R., Kardulias, P., Redmond, B., **Wiles, G**. and Yerkes, R., 2018, Description of an American Mastodon
(Mammut Americanum) Site in Morrow County, Ohio, and Assessment of Evidence for Early Paleoindian Exploitation: Archaeology of Eastern North America, v. 46, p. 215-240.

Büntgen. U. et al., 2018, Tree rings reveal globally coherent signature of cosmogenic radiocarbon events 774 and 993 CE: Nature Communications, (2018)9:3605 | DOI: 10.1038/s41467-018-06036-0 www.nature.com/naturecommunications.

McHugh, K. C., Widom, E., Spitz, H.B., **Wiles, G.C**. and Glover, S.E., 2018, Uranium mobility across annual growth rings in three deciduous tree species: Journal of Environmental Radioactivity, v. 182, p.183-189.

*Deck, D.,* **G. Wiles,** V. Matskovsky, T. M. Kuderina, *Frederick, S.,* O. Solomina, R.D’Arrigo, and N. Wiesenberg, 2017, Climate response of Larch and Birch across an elevational transect and hemisphere-wide comparisons, Kamchatka Peninsula, Russian Far East: Special Issue of Forests [Invited],  8:315; doi:[10.3390/f8090315](http://dx.doi.org/10.3390/f8090315).

Carlson, A., Kilmer, L., J. Stoner, **Wiles, G**., Starr, K., Walczak, M., Colgan, W., Reyes, A., Leydet, D., Hatfield, R. 2017, Unprecedented recent retreat of Columbia Glacier, Alaska relative to the last millennium: Geology, doi:10.1130/G38479.1.

Solomina, O.N., Bradley, R.S., Jomelli, V., Geirsdottir, A., Kaufman, D.S., Koch, J., McKay, N.P., Masiokas, M., Miller, G., Nesje, A., Nicolussi, K., Owen, L.A., Wanner, H., Nesje, A., **Wiles, G.C.,** 2016, Glacier fluctuations during the past 2000 years: Quaternary Science Reviews JQSR- D-15-00298R2.

*Horton, J.,* **Wiles, G**. *Lawson, D., Appleton, S., Wilch, J*., and *Wiesenberg, N*., 2016, Tree Ring Dated Glacial History for the First Millennium CE, Casement Glacier and Adams Inlet, Glacier Bay, Alaska, USA: Arctic, Antarctic and Alpine Research, DOI: http//dx.doi.org/10.1657/AAAR0015-038.

Wilson, R., Anchukaitis, K., Briffa, K., Büntgen, U., Cook, E., D’ Arrigo, R., Davi, N., Esper, J., Frank, D Gunnarson, B., Hegerl, G., Helama, S., Klesse, S., Krusic, P., Linderholm, H., Myglan, V., Osborn, T., Rydval, M., Schneider, L., Schurer, A., **Wiles, G.**, Zhang, P. and Zorita, E., 2016, Last millennium Northern Hemisphere summer temperatures from tree rings: Part I: the long-term context: Quaternary Science Reviews (2016), pp. 1-18 DOI information: 10.1016/j.quascirev.2015.12.005

Wilson, R., D'Arrigo, R., Andreu-Hayles, L., Oelkers, R., **Wiles, G.,** Anchukaitis, K and Davi, N., 2017, [Blue Intensity based experiments for reconstructing North Pacific temperatures along the Gulf of Alaska](http://www.clim-past-discuss.net/cp-2017-26/): Clim. Past Discuss., doi:10.5194/cp-2017-26.

Gaglioti, B. V., Mann, D.H., Wooller, M.J., Jones, B.M., **Wiles, G.C**., Groves, P., Kunz, M.L., Baughman C.A., Reanier, R.E., 2017, Oxygen isotopes from modern and ancient willows record post-glacial climate changes and exceptional rates of recent warming in Arctic Alaska: Quaternary Science Reviews, 169:330-343, <https://doi.org/10.1016/j.quascirev.2017.05.012>.

Anchukaitis, K.J., R. Wilson, K. Briffa, U. Büntgen, E.R. Cook, R.D. D’Arrigo, N. Davi, J. Esper, D. Frank, B. Gunnarson, G. Hegerl, S. Helama, S. Klesse, P.J. Krusic, H. Linderholm, V. Myglan, T. J. Osborn, Z. Peng, M. Rydval, L. Schneider, A. Schurer, **G. Wiles** and E. Zorita, 2017, Last millennium Northern Hemisphere summer temperatures from tree rings: Part II: spatially resolved reconstructions, Quaternary Science Reviews 134: 1-18, JQSR-D-16-00439R1.

Solomina, O.N., Bradley, R.S., Hodgson, D.A., Ivy-Ochs, S., Jomelli, V., Mackintosh, A.N., Nesje, A.,Owen, L.A., Wanner, H., **Wiles, G.C**., *Young, N.E* ., 2015, Holocene glacier fluctuations: Quaternary Science Reviews, doi:10.1016/j.quascirev.2014.11.018.

D'Arrigo, R., Wilson, R., **Wiles, G.**, Anchukaitis, K., Solomina, O. Davi, N., Deser, C., Dolgova, E., 2014, [Tree ring reconstructed temperature index for coastal northern Japan: implications for western North Pacific variability](http://onlinelibrary.wiley.com/doi/10.1002/joc.4230/full), International Journal of Climatology, doi.org/10.1002/joc.4230.

**Wiles, G.C**., Solomina, O., D’Arrigo, R.D., Anchukaitis , K., Gensiarovsky, Y. and Wiesenberg, N., 2014, Reconstructed Summer Temperatures over the Last 400 Years Based on Larch Ring Widths: Sakhalin Island, Russian Far East: Climate Dynamics, DOI:10.1007/s00382-014-2209-2.

 **Wiles, G.C**., D’Arrigo, R.D., Barclay, D., Wilson, Jarvis, S. K., Vargo, L., Frank, D., 2014, Surface air temperature variability for the Gulf of Alaska over the past 1200 years: The Holocene, DOI: 10.1177/0959683613516815.

D’Arrigo R, Davi N, Jacoby G, Wilson R, **Wiles G**. 2014, Dendroclimatic Studies: Tree Growth and Climate Change in Northern Forests. AGU Monograph (Book), Wiley, ISBN: 978-1-118-84872-2.

Rakovan, M., Rech, J., Nekola, J., Pigati, J., and **Wiles, G**., 2013, An evaluation of Mesodon and other larger terrestrial gastropod shells for dating late Holocene and historic alluvium in the Midwestern, USA: Geomorphology, p. 47-56.

Jarvis, S. K., Wiles, G.C., Appleton, S.N., D’Arrigo, R.D. and Lawson, D.E., 2013, A warming-induced biome shift detected in tree growth of Mountain Hemlock (Tsuga mertensiana (Bong.) Carrière) along the Gulf of Alaska. Arctic, Antarctic and Alpine Research 45, DOI 10.1657/1938-4246-45.2.

*Malcomb, N.L*. and **Wiles, G.C.,** 2013, Tree-ring based reconstructions of North American glacier mass balance through the Little Ice Age. Quaternary Research, <http://dx.doi.org/10.1016/j.yqres.2012.11.005>.

**Wiles, G.C.,** *Mennett, C., Jarvis, S.K.,,*Lawson, D., Wiesenberg, N., and D’Arrigo, R, 2012, Decline in Alaskan Yellow-Cedar: tree-ring investigations into climatic responses and possible causes: Glacier Bay, Alaska: Canadian Journal of Forest Research, 42: 1–6 (2012) doi:10.1139/X2012-028.

Judge, S., Pollock, M., **Wiles, G.** and Wilson, M. 2012, Mentored undergraduate research in the geosciences. Eos 93(36): 345-346.

**Wiles, G.C.,** Lawson, D.L., *Lyon, E.,* Wiesenberg, N., 2011, Tree-ring dates on two pre-Little Ice Age advances in Glacier Bay National Park and Preserve: Quaternary Research, doi:10.1016/j.yqres.2011.05.005.

Glover, K., Lowell, T.V., **Wiles, G.C.,** Pair, D. and Hajdas, I., 2011, Deglaciation, basin formation, and post-glacial climate change patterns extracted from a regional network in Ohio and eastern Indiana: Quaternary Research, doi:10.1016/j.yqres.2011.06.004.

Capps, D.L., **Wiles, G.C**.Clague, J.J. and Luckman, B.H., 2011, Tree-ring dating of the 19th century advance of Brady Glacier and formation and filling of two marginal lakes, Alaska, The Holocene, DOI: 10.1177/0959683610391315.

Santos, J. A., Cunha, L. J., Cordova, C. E., **Wiles, G. C.**, 2010, Holocene Glacial History of College Fjord, South-Central Alaska: Polar Geography, DOI: 10.1080/1088937X.2010.543551

**Wiles, G. C.,** Barclay, D. J. and *Young, N, E*., 2010, Lichenometric Dating of Moraines in Alaska: A Review and Comparison with Independent Glacial Records, Geografiska Annalar, v. 92A, p.101-110.

**Wiles, G.C.,** *Krawiec, A.C.,* and D’Arrigo, R.D., 2009, A 265-Year Reconstruction of Lake Erie Water Levels Based on North Pacific Tree Rings: Geophysical Research Letters, doi: 2008gl037164.

Barclay, D.J., **Wiles, G.C.** and Calkin, P.E., 2009, Holocene glacier fluctuations in Alaska: Quaternary Sciences Review, v. 71, 22-26, doi:10.1016/j.yqres.2008.09.005

Barclay, D.J., **Wiles, G.C**. and Calkin, P.E., 2009, Tree-ring cross-dates for a first millennium AD advance of Tebenk of Glacier, southern, Alaska: Quaternary Research, 71: 22-26, doi:10.1016/j.yqres.2008.09.005.

**Wiles, G.C.,** Barclay, D.J., Calkin, P.E., and Lowell, T.V., 2008, Century to Millennial-Scale Temperature Variations for the Last Two Thousand Years Inferred from Glacial Geologic Records of Southern Alaska: Global and Planetary Change, 57, doi:10.1016/j.gloplacha.2006.07.036

Solomina, O., Haeberli, W., Kull, C. and **Wiles, G**., 2008, Historical and Holocene Glacier-climate variations: general concepts and overview: Global and Planetary Change, 57, doi:10.1016/j.gloplacha.2007.02.001.

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