

CURRICULUM VITAE

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Education:
1987 Ph.D. Geological Oceanography, Oregon State University, Corvallis
1979 B.S. Geology (with honors), University of Minnesota, Minneapolis

Professional Experience:

2007-present Idaho State University, Departments of Biological Sciences and Geosciences
(joint appointment)
2011-present Assistant Director of the Center for Archeological Materials
and Applied Spectroscopy (CAMAS)
2007-present Director of the Idaho State University Interdisciplinary
Laboratory for Stable Isotopic Analysis
2007-present Professor

2012 Moss Landing Marine Laboratories
Visiting Scientist

1991-2007 University of Alaska Fairbanks, Institute of Marine Science
2002-2007 Professor
2004-2006 Graduate Program Head, Marine Science and Limnology
1998-2002 Associate Professor
1991-1998 Assistant Professor

2004-2005 University of Minnesota, Geology Department, Limnological Research Center
Visiting Faculty

1989-1991 Duke University, Marine Laboratory
Research Associate

1980-1988 Oregon State University, College of Oceanic and Atmospheric Sciences
1987-1988 Research Associate, Marine Chemistry
1980-1986 Research Assistant, Geological Oceanography

1979 Minnesota Department of Natural Resources
Limnological field worker

Leadership and Distinctions:

2013 Distinguished Researcher award from Idaho State University (the Distinguished
Faculty award, given once annually, is the highest honor bestowed on faculty
at Idaho State University)

- 2012 Outstanding Researcher award from Idaho State University
- 2011 - present Assistant Director of the Center for Archeological Materials and Applied Spectroscopy (CAMAS)
- 2007 - present Director of the Idaho State University Interdisciplinary Laboratory for Stable Isotopic Analysis
- 2005 - present Co-proponent of Leg 341 "Southern Alaskan Margin Tectonics, Climate and Sedimentation" for the Integrated Ocean Drilling Program (IODP) of NSF, to begin May 2013
- 2004 - 2006 Selected as Program Head, Graduate Program in Marine Science and Limnology, UAF
- 2005 Selected for funding (\$2.4 M) by the Gordon and Betty Moore Foundation's Wild Salmon Ecosystems Initiative.
- 2005 Research highlighted in National Research Council Report "The Geological Record of Ecological Dynamics" (p. 50).
- 2003 - 2004 Visiting faculty, Geology Department and Limnological Research Center University of Minnesota
- 2001 Merit Award from the Dean, School of Fisheries and Ocean Sciences, UAF for valuable contributions to the School, and research of distinction
- 1999 Citation for the Most Significant Paper, American Fisheries Society
- 1998 - 2004 Elected member of science steering committee, NSF Arctic Paleoenvironmental Science Program
- 1999 Keynote speaker North Pacific Anadromous Fish Commission Annual meeting: A long-term perspective on climate and marine ecosystems in the northeast Pacific
- 1998 - present Invited presentations – 18 invited presentations at national and international meetings since 1998, including AMQUA, GSA, AGU and the American Fisheries Society.
- 1998 - present Media coverage of research: New York Times, LA Times, Seattle Times, National Post (Canada), Anchorage Dailey News (front page), Discover Magazine, Geotimes, BBC Science Magazine, Oregon Public Radio, CBC Radio Canada, CNN.com, ABCnews.com, MSNBC.com, USAToday.com, National Geographic.com, Idaho State Journal, etc.

Teaching and Educational Activities:

- 2009 – present Developed and taught graduate class: Paleoecology and Paleoclimatology of Western North America/North Pacific Region
- 2008 – present Developed and taught graduate class (including lab section): Stable Isotopes in Environmental Science
- 2004 – 2006 Head of the Graduate Program in Marine Science and Limnology, School of Fisheries and Ocean Sciences (SFOS), University of Alaska Fairbanks (UAF)
- 2004 Chaired "Student Outcomes Assessment" report to assess program success
- 2000 Committee member, program accreditation review (successful)
- 2005 - 2007 Chaired graduate program comprehensive examination committee
- 1992 - 2005 Graduate program comprehensive examination committee member
- 1991 - 2007 Taught or co-taught core graduate curriculum in geological oceanography, including *Geological Oceanography, Paleoceanography/Paleoclimatology*
- 1992 - present Chaired/Co-chaired 5 Ph.D. committees
- 1991 - present Chaired/Co-chaired 12 M.S. committees

- 1991 - present Served as an active member of numerous (29) graduate committees
- 2005 Taught undergraduate course *Introduction to Oceanography*
- 1996 Co-developed and taught interdisciplinary undergraduate course *Ice Ages and Global Change* (UAF)
- 1993 - present Provided advising, mentoring and education for undergraduate students via research grants, through NSF-Research Experience for Undergraduates Program, and UAF undergraduate research initiatives. Consistent with university initiatives, created opportunities for members of underrepresented groups (e.g., women and ethnic minorities).
- 2000 - 2005 Provided K-12 education and mentoring via advising high school student science fair projects, judging middle school science fairs, and leading high school science field trips.

Research Projects (current and recent):

National Science Foundation (NSF)

- \$1,650,000 (Biocomplexity) The Kuril Biocomplexity Project: Dynamics of Long Term Change in Subarctic Seas (B. Fitzhugh, Univ. Washington, PI). (Finney component \$220,000).
- \$2,000,000 (Polar Programs, Arctic System Science) Collaborative research: Nonlinearities in the Arctic climate system during the Holocene (M. Abbott, U. Pitt., R. Bradley, U. Mass., J. Briner, SUNY Buffalo, F.S. Hu, U. Illinois, D. Kaufman, U. No. Arizona, M. Loso, Alaska Pacific U., G. Miller, U. Colorado, M. Wooller, U. Alaska Fairbanks, Z. Yu, Lehigh U.) (Finney component \$137,000).
- \$368,639 (Biological Oceanography) Collaborative Research: Establishing baselines for nearshore marine ecosystems by examining sea otter trophic variation over 5,000 years of climatic and anthropogenic change (N.Misarti, Oregon State Univ., co-PI) (Finney component \$99,923).
- \$199,791 (TUES: Transforming Undergraduate Education in Science) Early integration of research experiences into the undergraduate biology curriculum. (J. Hill, ISU, PI).
- \$249,213 (Archeometry) Improving access to coordinated archaeometric services, method development and post-analysis data validation and interpretation. (co-PI with John Dudgeon, ISU Anthropology).
- \$440,000 (Arctic Social Sciences) Collaborative Research: Exploring the abundance and use of anadromous salmon through stable isotope, zooarchaeological, and ancient DNA analyses in central Alaska (B. Potter, C. Halfman, U. Alaska Fairbanks). (Finney component \$132,757).

Gordon and Betty Moore Foundation

- \$2,397,000 A long-term perspective on salmon populations throughout the North Pacific Ocean (D. Schindler, Univ. Washington, P. Leavitt, Univ. Regina, I. Gregory-Eaves, McGill Univ., co-PIs)

U.S. Geological Survey

- \$184,000 Effects of climate change on the Yukon River Basin: Changes in water and implications for wildlife habitat, human subsistence, and climate regulation. (L. Anderson, U.S.G.S. direct collaborator; Project has 20 co-PIs and \$10,800,000 budget over 5 years).

\$95,000 Understanding the long-term dynamics between climate, water and carbon in northeast Alaska.

Alaska Sea Grant

\$86,100 Long-term records of abundance and effects of large-scale climate change on Alaska Peninsula sockeye salmon

Significant Publications:

- 2015 Early human use of anadromous salmon in North America at 11,500 y ago. Halfman, C.M., Potter, B.A., McKinney, H.J., Finney, B.P, Rodrigues, A.T., Yang, D. and Kemp, B.M. *Proceedings of the National Academy of Sciences* **112**: 12344-12348.
- 2013 Centennial-scale fluctuations and regional complexity characterize Pacific salmon population dynamics over the last five centuries. Rogers, L.A., Schindler, D.E., Lisi, P.J., Holtgrieve, G.W., Leavitt, P.R., Bunting, L., Finney, B.P., Selbie, D.T., Chen, G., Gregory-Eaves, I., Lisac, M.J. and Walsh, P.B. *Proceedings of the National Academy of Sciences* **110**: 1750–1755.
- 2012 1500-year quantitative reconstruction of winter precipitation in the Pacific Northwest. Steinman, B.A., Abbott, M.B., Mann, M.E., Stansell, N.D. and Finney, B.P. *Proceedings of the National Academy of Sciences* **109**: 11619-11623.
- 2011 A coherent signature of anthropogenic nitrogen deposition to remote watersheds of the Northern Hemisphere. Holtgrieve, G.W., Schindler, D.E., Hobbs, W.O., Leavitt, P.R., Ward, E.J., Bunting, L., Chen, G., Finney, B.P., Gregory-Eaves, I., Holmgren, S., Lisac, M.J., Lisi, P.J., Nydick, K., Rogers, L.A., Saros, J.E., Selbie, D.T., Shapley, M.D., Walsh, P.B., and Wolfe, A.P. *Science* **334**: 1545-1548.
- Drought variability in the Pacific Northwest from a 6,000-yr lake sediment record. Nelson, D.B., Abbott, M.B., Steinman, B., Polissar, P.J., Stansell, N., Ortiz, J.D., Rosenmeier, M.F., Finney, B. and Riedel, J. *Proceedings of the National Academy of Sciences* **108**: 3870-3875.
- 2003 Delivery of pollutants by spawning salmon. Krummel, E., Macdonald, R., Kimpe, L., Gregory-Eaves, I., Demers, M.J., Smol, J.P., Finney, B. and Blais, J.M. *Nature* **425**: 255-256.
- 2002 Fisheries productivity in the northeastern Pacific Ocean over the past 2,200 years. Finney, B.P., Gregory-Eaves, I., Douglas, M.S.V. and Smol, J.P. *Nature* **416**: 729-733.
- 2000 Impacts of Climatic Change and Fishing on Pacific Salmon Abundance Over the Past 300 Years. Finney, B.P., Gregory-Eaves, I., Sweetman, J., Douglas, M.S.V. and Smol, J. *Science* **290**: 795-799.
- 2000 Reduced growth in Alaskan white spruce from 20th century temperature-induced drought stress. Barber, V.A., Juday, G.P. and Finney, B.P. *Nature* **405**: 668-673.

- 1997 Arctic Environmental Change of the Last Four Centuries. Overpeck, J., Hughen, K., Hardy, D., Bradley, R., Case, R., Douglas, M., Finney, B., Gajewski, K., Jacoby, G., Jennings, A., Lamoureux, S., MacDonald, G., Moore, J., Retelle, M., Smith, S., Wolfe, A. and Zielinski, G. *Science* **278**: 1251-1256.

Publications:

- 2018 Millennial-scale decline in coho salmon abundance since the middle Holocene in a coastal Oregon watershed, USA. Gavin, D.G., Kusler, J.E., Finney, B.P. *Quaternary Research* **89**: 432-445.

Sockeye salmon population dynamics over the past 4000 years in Upper Russian Lake, south-central Alaska. McCarthy, M.D., Rinella, D.J., and Finney, B.P. *Journal of Paleolimnology* doi.org/10.1007/s10933-018-0024-1.

Millennial-scale variability in Holocene aquatic productivity from Burial Lake, Arctic Alaska. Finkenbinder, M.S., Abbott, M.B., Stoner, J.S., Ortiz, J.D., Finney, B.P., Dorfman, J.M., and Stansell, N.D. *Quaternary Science Reviews* **187**: 220-234.

A Holocene record of ocean productivity and upwelling from the northern California continental slope. Addison, J.A., Barron, J., Finney, B., Kusler, J., Bukry, D., Heusser, L.E., and Alexander, C.R. *Quaternary International* **469**: 96-108.

Lake levels in a discontinuous permafrost landscape: Late Holocene variations inferred from sediment oxygen isotopes, Yukon Flats, Alaska. Anderson, L., Finney, B.P. and Shapley, M.D. *Arctic, Antarctic, and Alpine Research* 50 (1): doi.org/10.1080/15230430.2018.1496565

Multi-proxy lake sediment records of late Quaternary climate and environmental change in the Pacific Northwest. Steinman, B.A., Nelson, D.B., Abbott, M.B., Stansell, N.D., Finkenbinder, M.S., Finney, B.P. *Quaternary Science Reviews*, in press.

Vegetation and precipitation shifts interact to alter organic and inorganic carbon storage in desert soils. Huber, D.P. Lohse, K.A., Commendador, A., Joy, S., Aho, K., Finney, B. and Germino, M.J. *Ecosphere*, accepted.

- 2017 Compound-Specific Amino Acid $\delta^{15}\text{N}$ Values in Archaeological Shell: A New Approach to Evaluating Diagenetic Integrity and Baseline Stable Isotope Values. Misarti, N., Gier, E., Finney, B., Barnes, K., McCarthy, M. *Rapid Communications in Mass Spectrometry* **31**:1881–1891.

The fate of marine-derived nutrients: tracing $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ through oligotrophic freshwater and linked riparian ecosystems following salmon carcass analog additions. Richardson, D.P, Kohler, A.E., Hailemichael, M. and Finney, B.P. *Canadian Journal of Fisheries and Aquatic Sciences* **74**: 41-55.

- Late Holocene Indian summer monsoon variability revealed from a 3,300-year-long lake sediment record from Nir'pa Co, southeastern Tibet. Bird, B.W., Lei, Y., Perello, M., Polissar, P.J., Yao, T., Finney, B., Bain, D., Pompeani, D. and Thompson, L.G. *The Holocene* **27**: 541–552.
- Holocene environments of Iturup Island, southern Kuril Archipelago, Russian Far East. Lozhkin, A., Minyuk, P., Cherepanova, M., Anderson, P. and Finney, B. *Quaternary Research* **88**: 23–38.
- Evaluating evidence for historic anadromous salmon runs in Eklutna Lake, Alaska. Loso, M., Finney, B., Johnson, R., Sinnott, R. *Arctic* **70**: 259 – 272.
- 2016 Lake oxygen isotopes as recorders of North American Rocky Mountain hydroclimate: Holocene patterns and variability at multi-decadal to millennial time scales. Anderson, L., Berkelhammer, M., Barron, J., Steinman, B.A., Finney, B.P., Abbott, M.B. *Global and Planetary Change* **137**: 131–148.
- High-resolution records detect human-caused changes to the boreal forest wildfire regime in Interior Alaska. Gaglioti, B.V., Mann, D.H., Jones, B.M., Wooller, M.J., and Finney, B.P. *The Holocene* **26**: 1064-1074.
- Holocene environmental change in the eastern Snake River Plain, Idaho USA, as inferred from stable isotope analyses of small mammals. Commendador, A.S. and Finney, B.P. *Quaternary Research* **85**: 358-370.
- Maternal exposure to Carbamazepine at environmental concentrations can cross intestinal and placental barriers. Kaushik, G., Huber, D.P., Aho, K. Finney, B., Bearden, S., Zarbalis, K.S., Thomas, M.A. *Biochemical and Biophysical Research Communications* **474(2)**: 291-295.
- 2015 Macrophyte biomass predicts food chain length in shallow lakes. Ziegler, J.P., Solomon, C.T., Finney, B.P and Gregory-Eaves, I. *Ecosphere* **6:1**, art5, doi.org/10.1890/ES14-00158.1.
- Lake morphometry controls the remobilization and long-term geochemical imprint of distal tephra deposition. Shapley, M.S. and Finney, B.P. *Journal of Paleolimnology* **53**: 309–320.
- A multi-proxy reconstruction of environmental change spanning the last 37,000 years from Burial Lake, Arctic Alaska. Finkenbinder, M.S., Abbott, M.B., Finney, B.F., Stoner, J.S. and Dorfman, J.M. *Quaternary Science Reviews* **126**: 227-241.
- Early human use of anadromous salmon in North America at 11,500 y ago. Halfman, C.M., Potter, B.A., McKinney, H.J., Finney, B.P, Rodrigues, A.T., Yang, D. and Kemp, B.M. *Proceedings of the National Academy of Sciences* **112**: 12344-12348.

A multiproxy record of Holocene environmental changes from the northern Kuril Islands (Russian Far East). Anderson, P., Minyuk, P., Lozhkin, A., Cherepanova, M., Borkhodoev, V. and Finney, B. *Journal of Paleolimnology* **54**: 379–393.

- 2014 Radiocarbon dating human skeletal material on Rapa Nui: Evaluating the effect of uncertainty in marine-derived carbon. Commendador, A.S., Dudgeon, J.V., Fuller, B.T. and Finney, B.P. *Radiocarbon* **56**: 277-294.

Ocean-atmosphere forcing of centennial hydroclimate variability in the Pacific Northwest. Steinman, B.A., Abbott, M.B., Mann, M.E., Ortiz, J.D., Feng, S., Pompeani, D.P., Stansell, N.D., Anderson, L., Finney, B.P., Bird, B.W. *Geophysical Research Letters* **41** (7): 2553–2560; doi: 10.1002/2014GL059499.

Holocene sea surface temperature and sea ice extent in the Okhotsk and Bering Seas. Harada, N., Katsuki, K., Nakagawa, M., Matsumoto, A., Seki, O., Addison, J.A. Finney, B.P., Sato, M. *Progress in Oceanography* **126**: 242-253.

A 31,000 Year Record of Paleoenvironmental and Lake-Level Change from Harding Lake, Alaska, USA. Finkenbinder, M.S., Abbott, M.B., Edwards, M.E., Langdon, C.T., Steinman, B.A., Finney, B.P. *Quaternary Science Reviews* **87**: 98-113.

A Tibetan lake sediment record of Holocene Indian summer monsoon variability. Bird, B.W., Polisar, P.J., Lei, Y., Thompson, L.G., Yao, T., Finney, B.P., Bain, D.J., Pompeani, D.P. and Steinman, B.A. *Earth and Planetary Science Letters* **399**: 92–102.

Sediment size fractionation and focusing in the Equatorial Pacific: Effect on ²³⁰Th normalization and paleoflux measurements. Lyle, M., Marcantonio, F., Moore, W.S., Murray, R.W., Huh, C.A., Finney, B.P., Murray, D.W., Mix, A.C. *Paleoceanography* **29**: 747–763.

- 2013 Centennial-scale fluctuations and regional complexity characterize Pacific salmon population dynamics over the last five centuries. Rogers, L.A., Schindler, D.E., Lisi, P.J., Holtgrieve, G.W., Leavitt, P.R., Bunting, L., Finney, B.P., Selbie, D.T., Chen, G., Gregory-Eaves, I., Lisac, M.J. and Walsh, P.B. *Proceedings of the National Academy of Sciences* **110**: 1750–1755.

Isotopic and hydrologic responses of small, closed lakes to climate variability: Comparison of measured and modeled lake level and sediment core oxygen isotope records. Steinman, B.A., Abbott, M.E., Nelson, D.B., Stansell, N.D., Finney, B.P., and Rosenmeier, M.F. *Geochimica et Cosmochimica Acta* **105**: 455-471.

Recent Physical Connections May Explain Weak Genetic Structure in Western Alaskan Chum Salmon (*Oncorhynchus keta*) Populations. Garvin, M., Kondzela, C., Martin, P., Finney, B., Guyon, J., Templin, W., Gilk-Baumer, S., DeCovich, N. and Gharrett, A. *Ecology and Evolution* **3**(7): 2362-2377; doi: 10.1002/ece3.628.

Integrating satellite observations and modern climate measurements with the recent sedimentary record: an example from Southeast Alaska. Addison, J.A., Finney, B.P., Jaeger, J.M., Stoner, J.S., Norris, R.D., and Hangsterfer, A. *Journal of Geophysical Research – Oceans* **118**: 1–18, doi:10.1002/jgrc.20243.

Response of diatoms and silicoflagellates to climate change and warming in the California Current during the past 250 years and the recent rise of the toxic diatom *Pseudo-nitzschia australis*. Barron, J.A., Bukry, D., Field, D.B. and Finney, B. *Quaternary International* **310**: 140-154.

A Stable Isotope ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) perspective on human diet on Rapa Nui (Easter Island) ca. AD 1400 – 1900. Commendador, A.S., Dudgeon, J.V., Finney, B.P., Fuller, B.T., and Esh, K.S. *American Journal of Physical Anthropology* **152**:173-185.

Paleoclimate History of the Arctic. Miller, G.H., Brigham-Grette, J., Alley, R.B., Anderson, L., Bauch, H.A., Douglas, M.S.V., Edwards, M.E., Elias, S., Finney, B.P., Fitzpatrick, J.J., Funder, S.V., Geirsdóttir, A., Herbert, T.D., Hinzman, L.D., Kaufman, D.S., MacDonald, G.M., Polyak, L., Robock, A., Serreze, M.C., Smol, J.P., Spielhagen, R., White, J.C., Wolfe, A.P., Wolff, E.W. In: *Encyclopedia of Quaternary Science*, 2nd edition (Elias, S., ed.). Amsterdam: Elsevier, 113-125. DOI: 10.1016/B978-0-444-53643-3.00030-3

2012 Productivity and sedimentary $\delta^{15}\text{N}$ variability for the last 17,000 years along the northern Gulf of Alaska continental slope. Addison, J.A., Finney, B.P., Dean, W.E., Davies, M.H., Mix, A.C., Stoner, J.S., and Jaeger, J.M. *Paleoceanography* **27** PA1206, doi:10.1029/2011PA002161.

Early retreat of the Alaska Peninsula Glacier Complex and the implications for coastal migrations of First Americans. Misarti, N. Finney, B.P., Jordan, J.W., Maschner, H.D.G., Addison J.A., Shapley, M.D., Krumhardt, A. and Beget, J.E. *Quaternary Science Reviews* **48**: 1-6.

Holocene climate change and carbon cycling in a groundwater-fed, boreal forest lake: Dune Lake, Alaska. Finney, B.P., Bigelow, N.H., Barber, V.A. and Edwards, M.E. *Journal of Paleolimnology* **48**: 43-54.

1500-year quantitative reconstruction of winter precipitation in the Pacific Northwest. Steinman, B.A., Abbott, M.B., Mann, M.E., Stansell, N.D. and Finney, B.P. *Proceedings of the National Academy of Sciences* **109**: 11619-11623.

2011 Salmon-derived nutrients drive diatom beta-diversity patterns. Chen, G., Saulnier-Talbot, E., Selbie, D.T., Brown, E., Schindler, D.E., Bunting, L., Leavitt, P.R., Finney, B.P. and Gregory-Eaves, I. *Freshwater Biology* **56**: 292–301.

Drought variability in the Pacific Northwest from a 6,000-yr lake sediment record. Nelson, D.B., Abbott, M.B., Steinman, B., Polissar, P.J., Stansell, N., Ortiz, J.D.,

Rosenmeier, M.F., Finney, B. and Riedel, J. *Proceedings of the National Academy of Sciences* **108**: 3870-3875.

Lake Carbonate- $\delta^{18}\text{O}$ records from the Yukon Territory, Canada: Little Ice Age moisture variability and patterns. Anderson, L., Finney, B.P. and Shapley, M.D. *Quaternary Science Reviews* **30**: 887-898.

Climate change modulates structural and functional lake ecosystem responses to introduced anadromous salmon. Selbie, D.T., Sweetman, J.N., Etherton, P., Hyatt, K.D., Rankin, D.P., Finney, B.P. and Smol, J.P. *Can. J. Fish. Aquat. Sci.* **68**: 675–692.

The deglacial transition on the Southeastern Alaska Margin: meltwater input, sealevel rise, marine productivity, and sedimentary anoxia. Davies, M.H., Mix, A.C., Stoner, J.S., Addison, J.A., Jaeger, J., Finney, B. and Wiest, J. *Paleoceanography* **26**, PA2223, doi:10.1029/2010PA002051.

Reconstructing site organization in the eastern Aleutian Islands, Alaska using multi-element chemical analysis of soils. Misarti, N., Finney, B. and Maschner, H. *Journal of Archaeological Science* **38**: 1441-1455.

A coherent signature of anthropogenic nitrogen deposition to remote watersheds of the Northern Hemisphere. Holtgrieve, G.W., Schindler, D.E., Hobbs, W.O., Leavitt, P.R., Ward, E.J., Bunting, L., Chen, G., Finney, B.P., Gregory-Eaves, I., Holmgren, S., Lisac, M.J., Lisi, P.J., Nydick, K., Rogers, L.A., Saros, J.E., Selbie, D.T., Shapley, M.D., Walsh, P.B., and Wolfe, A.P. *Science* **334**: 1545-1548.

Long-term zooplankton responses to subsidies of nutrients and consumers arising from migratory sockeye salmon (*Oncorhynchus nerka*). Chen, G., Selbie, D.T., Finney, B.P., Schindler, D.E., Bunting, L., Leavitt, P.R., and Gregory-Eaves, I. *Oikos* **120**: 1317-1326.

Paleoecological changes of a mangrove ecosystem during the Holocene along the Sibun River, Belize. Monacci, N.M., Meier-Grünhagen, U., Finney, B.P., Behling, H., and Wooller, M.J. *Quaternary Research* **76**: 220-228.

2010 Paleocological Studies on Variability in Marine Fish Populations: A Long-Term Perspective on the Impacts of Climatic Change on Marine Fisheries. Finney, B., Alheit, J., Emeis, K-C., Field, D.B., Gutiérrez, D. and Struck, U. *Journal of Marine Systems* **79**: 316-326.

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

A 40,000-year record of environmental change from Burial Lake in Northwest Alaska. Abbott, M.B., Edwards, M.E., and Finney, B.P. *Quaternary Research* **74**: 156-165.

Marine tephrochronology of the Mt. Edgecumbe Volcanic Field, Southeast Alaska, USA. Addison, J.A., Beget, J.E., Ager, T.A. and Finney, B.P. *Quaternary Research* **73**: 277-292.

Topographic controls on black carbon accumulation in Alaskan black spruce forest soils: implications for organic matter dynamics. Kane, E.S., Hockaday, W.C., Turetsky, M.R., Masiello, C.A., Valentine, D.W., Finney, B.P. and Baldock, J.A. *Biogeochemistry* **100**: 39-56.

2009 A 2000 year varve-based climate record from the central Brooks Range, Alaska. Bird, B.W., Abbott, M.B., Finney, B.P., and Kutchno, B. *Journal of Paleolimnology* **41**:25–41.

Paleoceanography of the Gulf of Alaska during the past 15,000 years: Results from diatoms, silicoflagellates and geochemistry. Barron, J.A., Bukry, D., Dean, W.E., Addison, J.A. and Finney, B.P. *Marine Micropaleontology* **72**: 176-195.

Changes in Northeast Pacific marine ecosystems over the last 4,500 years: Evidence from stable isotope analysis of bone collagen from archaeological middens. Misarti, N., Finney, B., Maschner, H, Wooller, M. *The Holocene* **19**: 1139-1151.

Ecological, landscape, and climatic regulation of sediment geochemistry in North American sockeye salmon nursery lakes: Insights for paleoecological salmon investigations. Selbie, D.T., Finney, B.P., Barto, D., Bunting, L., Chen, G., Leavitt, P.R., MacIsaac, E.A., Schindler, D.E., Shapley, M.D. and Gregory-Eaves, I. *Limnology and Oceanography* **54**: 1733-1745.

Holocene paleoecological changes in mangrove ecosystems at Spanish Lookout Cay, Belize. Monacci, N.M., Meier-Grünhagen, U., Finney, B.P., Behling,, H., Wooller, M.J. *Palaeogeography, Palaeoclimatology, Palaeoecology* **280**: 37-46.

Tracking sockeye salmon population dynamics from lake sediment cores: A review and synthesis. Gregory-Eaves I., Selbie, D., Sweetman, J., Finney B., and Smol, J.P. In: Challenges for Diadromous Fishes in a Dynamic Global Environment, A. Haro, K.L. Smith, R.A. Rulifson, C.M. Moffitt, R.J. Klauda, M.J. Dadswell, R.A. Cunjak, J.E. Cooper, K.L. Beal, and T.S. Avery, eds. *American Fisheries Society Symposium* **69**: 379-393.

Distribution and composition of organic matter in surface sediments of coastal Southeast Alaska. Walinsky, S.E., Prahl, F.G., Mix, A.C., Finney, B.P., Jaeger, J.M. and Rosen, G.P. *Continental Shelf Research* **29**: 1565-1579.

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