

DR. BENJAMIN M. JONES

Research Assistant Professor
Water and Environmental Research Center
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RESEARCH INTERESTS

- Permafrost-influenced terrain dynamics
- Scaling field observations with multi-scale remote sensing observations
- Arctic and Boreal system-based studies across multiple spatial and temporal scales
- Basic and applied research related to water and environmental resources in Alaska

EDUCATION

Geosciences (Interdisciplinary Studies) **Ph.D.** - 2013
University of Alaska Fairbanks – Fairbanks, AK

Geography **M.A.** - 2006
University of Cincinnati, Cincinnati, OH

Environmental Studies **B.S.** - 2003
University of Cincinnati, Cincinnati, OH (honors)

POSITIONS

06/18 – Present **Research Assistant Professor**
Water and Environmental Research Center - UAF

01/14 – 06/18 **Research Geographer (Permanent)**
U.S. Geological Survey, Alaska Science Center – Anchorage, AK

01/09 – 12/13 **Geographer (Student Career Employment Program)**
U.S. Geological Survey, Alaska Science Center – Anchorage, AK

01/07 – 12/08 **Research Geographer (Term)**
U.S. Geological Survey, Alaska Science Center – Anchorage, AK

07/05 – 12/06 **Environmental Scientist**
Science Applications International Corporation (SAIC), contractor to the U.S.
Geological Survey Alaska Science Center, Anchorage, AK

GRANTS & FELLOWSHIPS

- Teshekpuk Lake Observatory Landscape and Ecosystem Studies (National Fish and Wildlife Foundation) – 2019-2021 (\$150,000) **PI**
- Remotely sensing historic and future potential lake drainage patterns, pathways, and processes in Arctic Alaska (Alaska NASA EPSCoR) - 2019-2020 (\$30,000) **PI**
- Collaborative Research: Causes and Consequences of Catastrophic Thermokarst Lake Drainage in an Evolving Arctic System (National Science Foundation) – 2018-2021 (\$1,488,000) **Co-I**

- Alaska Land Change Science and Land Remote Sensing Studies (U.S. Geological Survey) - 2007 to 2018 (\$3,000,000) **PI**
- Convergence NNA: Coordinate a Transdisciplinary Research Network to Identify Challenges of and Solutions to Permafrost Coastal Erosion and Its Socioecological Impacts in the Arctic (The National Science Foundation) – 2018 to 2020 (\$50,000) **Co-I**
- A predictive model for arctic coastal erosion (Sandia National Laboratory, US Department of Energy) – 2018 to 2019 (\$65,000) **Co-I**
- Terrestrial and aquatic studies at the Teshekpuk Lake Observatory (Bureau of Land Management) – 2017 (\$20,000) **PI**
- Using GIS and SAR imagery to assess fish and yellow-billed loon habitat in ARCEN (National Park Service) - 2015 to 2016 (\$95,000) **PI**
- Analysis of potential peregrine falcon nesting habitat using digital elevation models, high-resolution remote sensing imagery, and surface geology and geomorphology (Bureau of Land Management) - 2014 to 2015 (\$30,000) **PI**
- Collaborative Research: Ice Regime Shifts of Arctic Lakes Drive Interactions and Feedbacks with Permafrost and Climate (The National Science Foundation) – 2014 to 2017 (**No-Cost Collaborator**)
- Reconstructing Arctic lake temperature and productivity histories using lake trout (Alaska Climate Science Center and National Institute of Water Resources) – 2014 to 2016 (**No-Cost Collaborator**)
- Response of an Arctic Freshwater Ecosystem to Climate and Land-use Change (Arctic Landscape Conservation Cooperative) – 2013 to 2017 (\$120,000) **Co-I**
- Thermokarst Monitoring at the Landscape Level: a Feasibility Study (Arctic Landscape Conservation Cooperative) - 2012 to 2013 (\$48,000) **PI**
- Towards a Circumarctic Lake Observation Network (NSF) – 2011 to 2015 (**No-Cost Collaborator**)
- Aquatic Studies in the National Petroleum Reserve-Alaska (Bureau of Land Management) - 2010 to 2014 (\$100,000) **PI**
- Past, present, and future response of western Alaska lakes and lagoons to climate warming (Western Alaska LCC) – 2012 to 2014 (\$45,000) **PI**

TEACHING / MENTORING EXPERIENCE

01/18 - Present	Committee member for Richard Buzard PhD Geology and Geophysics, UAF)
08/17 - Present	Co-advisor for Eva Stephani (PhD Interdisciplinary Studies, UAF)
08/14 – 12/17	Committee member for Louise Farquharson (PhD Geology & Geophysics, UAF)
1/15 – 8/17	Committee member for Allen Bondurant (M.S. Interdisciplinary Studies, UAF)
5/12 – 12/16	USGS Pathways Student advisor for Ben Gaglioti (Ph.D. Interdisciplinary Studies, UAF)

PROFESSIONAL ORGANIZATIONS

- American Geophysical Union
- U.S. Permafrost Association

PROFESSIONAL SERVICE

- Guest Editor for the journal *Remote Sensing*
- Journals requesting peer-review - *Arctic*, *Arctic, Antarctic, and Alpine Research*, *Biogeosciences*, *Cold Regions Science and Technology*, *The Cryosphere*, *Earth Surface Processes and Landforms*, *Environmental Research Letters*, *Forest Ecology and Management*, *Geology*, *Geomorphology*, *Geophysical Research Letters*, *International Journal of Physical Sciences*, *International Journal of Remote Sensing*, *Journal of Applied Geography*, *Journal of Geography and Regional Planning*, *Journal of Geophysical Research Biogeosciences*, *Journal of Geophysical Research Earth Surfaces*, *Lakes and Reservoirs: Research and Management*, *Nature*, *Nature Climate Change*, *Nature Geoscience*, *Polar Research*, *Permafrost and Periglacial Processes*, *Remote Sensing Applications: Society and Environment*, *Remote Sensing Letters*, *Remote Sensing of Environment*, *Scientific Reports*, *Sedimentary Geology*, *Simulation Modelling: Practice and Theory*
- Interagency Arctic Research Policy Committee (IARPC) – Permafrost Collaboration Team co-lead – 2017 to Present
- Conservation of Arctic Flora and Fauna – Freshwater Ecosystems Monitoring Group Member – 2012 – 2015
- Contributed to, “Managing for the Future in a Rapidly Changing Arctic: A Report to the President”, March 2013, http://www.afsc.noaa.gov/publications/misc_pdf/iamreport.pdf
- Contributed to, “The United States National Climate Assessment— Alaska Technical Regional Report”, 28 November 2012, <http://pubs.usgs.gov/circ/1379/pdf/circ1379.pdf>
- Arctic Landscape Conservation Cooperative – Coastal Processes Working Group Chair – 2011-2013
- Alaska Geospatial Data Committee - LiDAR/IfSAR subcommittee co-chair – 2007-2008

OUTREACH & MEDIA COVERAGE

- Chunks of the Arctic Alaska coast are falling into the sea, but why?, 09 December 2018: <https://www.adn.com/alaska-news/science/2018/12/08/chunks-of-the-arctic-alaska-coast-are-falling-into-the-sea-but-why/>
- Watch the warming ocean devour Alaska’s coast in this striking time-lapse video, 14 November 2018: https://www.washingtonpost.com/energy-environment/2018/11/14/watch-warming-ocean-devour-alaskas-coast-this-striking-time-lapse-video/?utm_term=.e6985aa2eec9
- Hordes of Beavers Are Invading Alaska’s Tundra, 20 December, 2017: <https://earther.com/hordes-of-beavers-are-invading-alaska-s-tundra-1821472312>
- Researchers say Kenai Peninsula permafrost thawing rapidly, 25 January 2017: <http://www.alaskapublic.org/2017/01/25/researchers-say-kenai-peninsula-permafrost-thawing-rapidly/>
- Landscape Changes After Alaska’s Anaktuvuk River Fire, 15 January 2016, <http://www.fondriest.com/news/landscape-changes-after-alaskas-anaktuvuk-river-fire.htm>
- Five new studies that change our understanding of permafrost, High Country News, 15 December 2015, <http://www.hcn.org/articles/five-new-studies-that-change-our-understanding-of-permafrost>
- Tundra fires induce permafrost melt, land change, Alaska Public Radio Network, 09 November 2015, <http://www.alaskapublic.org/2015/11/09/study-tundra-fires-induce-permafrost-melt-land-change/>

- Face of northern Alaska pitted by tundra fires, Fairbanks Daily News Miner, 07 November 2015, http://www.newsminer.com/features/sundays/alaska_science_forum/face-of-northern-alaska-pitted-by-tundra-fires/article_9c647344-84ef-11e5-b8f8-2f8d0159aecb.html
- Big North Slope tundra fire sparked long-term permafrost thaw, Alaska Dispatch News, 06 November 2015, <http://www.adn.com/article/20151106/study-big-north-slope-tundra-fire-sparked-long-term-permafrost-thaw>
- Watching a lake disappear on the North Slope, Alaska Dispatch News, 28 March 2015, <http://www.adn.com/article/20150328/watching-lake-disappear-north-slope>
- Research in Arctic brings lessons on living together, Alaska Dispatch News, 6 May 2014, <http://www.adn.com/article/20140506/rozell-research-arctic-brings-lessons-living-together>
- Teshekpuk Lake Observatory a special place, Alaska Dispatch News, 25 April 2014, <http://www.adn.com/article/20140425/remote-teshekpuk-lake-lovingly-restored-cabin-shelters-arctic-researchers>
- Rugged research in Alaska's big white empty, Alaska Dispatch News, 19 April 2014, <http://www.adn.com/article/20140419/rugged-research-alaskas-big-white-empty-tests-scientists-resolve>
- On the North Slope a research station comes to life, Alaska Dispatch News, 11 April 2014, <http://www.adn.com/article/20140411/north-slope-research-station-comes-life-summer>
- Seeking answers in the North Slope's permafrost thaw lakes, Alaska Dispatch News, 5 April 2014, <http://www.adn.com/article/20140405/seeking-answers-north-slopes-permafrost-thaw-lakes>
- Remote sensing of potential polar bear habitat using airborne LiDAR, LiveScience, 17 Dec. 2013, <http://www.livescience.com/42031-lidar-tracks-polar-bear-dens.html>
- Arctic thaw lakes show surprising changes, Earth Magazine, Dec. 2011, <http://www.earthmagazine.org/sites/earthmagazine.org/files/toc122011.pdf>
- National Geographic News interview on Arctic coastal erosion, 25 Sept. 2009, <http://news.nationalgeographic.com/news/2009/09/090925-alaska-coast-erosion-video.html>
- Increasing erosion in the Arctic, Science Daily, 01 March 2009, <http://www.sciencedaily.com/releases/2009/02/090218135052.htm>
- Roundup: CO2 Rules, Maps, Eroding Arctic, NY Times, 20 Feb. 2009, <http://dotearth.blogs.nytimes.com/2009/02/20/a-week-on-the-dot/>
- Beaufort sea rapidly washes away, Alaska Dispatch News, 19 Feb. 2009, <http://www.adn.com/slideshow/beaufort-sea-rapidly-washes-away-shoreline>
- Erosion doubles along Arctic coastline, NBC News, 18 Feb. 2009, http://www.nbcnews.com/id/29262995/ns/us_news-environment/t/erosion-doubles-along-stretch-alaska-coast/#.VJXIy4BAA

PEER-REVIEWED PUBLICATIONS

84. Gaglioti, B. V., D. H. Mann, P. Williams, G. C. Wiles, M. Stoffel, R. Oelkers, **B. M. Jones**, and L. Andreu-Hayles. Accepted. Traumatic resin ducts in Alaska mountain hemlock trees as a new proxy for past winter storminess. *Journal of Geophysical Research Biogeosciences*.
83. Arp, C. D., **B. M. Jones**, K. M. Hinkel, D. L. Kane, M. S. Whitman, R. Kemnitz. Accepted. Recurring outburst floods from drained thermokarst lake basins: an emerging hazard with arctic climate and land-use change. *Frontiers in Ecology and the Environment*.

82. Ward Jones, M. K., W. H. Pollard, and **B. M. Jones**. 2019. Rapid initialization of retrogressive thaw slumps in the Canadian high Arctic and their response to climate and terrain factors. *Environmental Research Letters* 4: 055006. doi.org/10.1088/1748-9326/ab12fd [Full Publication]
81. Gaglioti, B. V., D. H. Mann, G. C. Wiles, **B. M. Jones**, J. Charlton, N. Weisenberg, G. P. Streveler, and L. Andreu-Hayles. 2019. Timing and causes of 19th-century glacier advances in coastal Alaska based on tree-ring dating and historical accounts. *Frontiers in Earth Science - Quaternary Science, Geomorphology and Paleoenvironment*. doi.org/10.3389/feart.2019.00082 [Full Publication]
80. Fuchs, M., J. Lenz, S. Jock, I. Nitze, **B. M. Jones**, J. Strauss, F. Gunther, and G. Grosse. 2019. Organic Carbon and Nitrogen Stocks Along a Thermokarst Lake Sequence in Arctic Alaska. *Journal of Geophysical Research Biogeosciences* Early View. doi.org/10.1029/2018JG004591.[Full Publication]
79. Arp, C. D., M. S. Whitman, **B. M. Jones**, D. A. Nigro, V. A. Alexeev, A. Gädeke, S. Fritz, R. Daanen, A. K. Liljedahl, F. J. Adams, B. V. Gaglioti, G. Grosse, K. C. Heim, J. R. Beaver, L. Cai, M. Engram, and H. R. Uher-Koch. 2019. Ice roads through lake-rich arctic watersheds: integrating climate uncertainty and freshwater habitat responses into adaptive management. *Arctic Antarctic and Alpine Research* 51:1, 9-23. doi.org/10.1080/15230430.2018.1560839 [Full Publication]
78. Parsekian, A., Creighton, A., Jones, B. M., and Arp, C. D. 2019. Surface nuclear magnetic resonance observations of permafrost thaw below floating, bedfast, and transitional ice lakes. *Geophysics*. doi.org/10.1190/geo2018-0563.1 [Full Publication]
77. Muster, S., W. J. Riley, K. Roth, M. Langer, F. C. Aleina, C. D. Koven, S. Lange, A. Bartsch, G. Grosse, C. J. Wilson, **B. M. Jones**, and J. Boike. 2019. Size distributions of Arctic waterbodies reveal consistent relations in their statistical moments in space and time. *Front. Earth Sci.* 7:5. doi: 10.3389/feart.2019.00005 [Full Publication]
76. Nitze, I., G. Grosse, **B. M. Jones**, V. Romanovsky, and J. Boike. 2018. Remote sensing quantifies recent permafrost region disturbances across the Arctic and Subarctic. *Nature Communications* 9: 5423, doi.org/10.1038/s41467-018-07663-3 [Full Publication]
75. Grosse, G., and **B. M. Jones**. 2018. Remote Sensing Leads to Better Understanding of Polar Regions. *EOS*, 99, doi.org/10.1029/2018EO111159 [Full Publication]
74. Arp, C. D., **B. M. Jones**, M. Engram, V. Alexeev, L. Cai, A. Parsekian, K. M. Hinkel, A. C. Bondurant, and A. L. Creighton. 2018. Contrasting Lake Ice Responses to Winter Climate Indicate Future Variability and Trends on the Alaskan Arctic Coastal Plain. *Environmental Research Letters* 13: 125001, doi.org/10.1088/1748-9326/aae994 [Full Publication]
73. Creighton, A. L., Parsekian, A. D., Angelopoulos, M., Jones, B. M., Bondurant, A., Engram, M., Lenz, J., Overduin, P. P., Grosse, G., Babcock, E., and Arp, C. D. 2018. Transient electromagnetic surveys for the determination of talik depth and geometry beneath thermokarst lakes. *Journal of Geophysical Research - Solid Earth*, 123: 9310-9323, doi.org/10.1029/2018JB016121 [Full Publication]

72. Jones, B. M., L. M. Farquharson, C. A. Baughman, R. M. Buzard, C. D. Arp, G. Grosse, D. L. Bull, F. Gunther, I. Nitze, F. Urban, J. L. Kasper, J. M. Frederick, M. Thomas, C. Jones, A. Mota, S. Dallimore, C. Tweedie, C. Maio, D. H. Mann, B. Richmond, A. Gibbs, M. Xiao, T. Sachs, G. Iwahana, M. Kanevskiy, and V. E. Romanovsky. 2018. A decade of remotely sensed observations highlight complex processes linked to coastal permafrost bluff erosion in the Arctic. *Environmental Research Letters* 13: 115001. doi.org/10.1088/1748-9326/aae471 [Full Publication]
71. Loranty, M. M., B. W. Abbott, D. Blok, T. A. Douglas, H. E. Epstein, B. C. Forbes, **B. M. Jones**, A. L. Kholodov, H. Kropp, A. Malhotra, S. D. Mamet, I. H. Myers-Smith, S. M. Natali, J. A. O'Donnell, G. K. Phoenix, A. V. Rocha, O. Sonnentag, K. D. Tape, and D. A. Walker. 2018. Reviews and syntheses: Changing ecosystem influences on soil thermal regimes in northern high-latitude permafrost regions. *Biogeosciences* 15: 5287-5313. doi.org/10.5194/bg-15-5287-2018 [Full Publication].
70. Walter-Anthony, K.M., T. S. von Deimling, I. Nitze, S. Frolking, A. Emond, R. Daanen, P. Anthony, P. Lindgren, **B.M. Jones**, and G. Grosse. 2018. 21st-century modeled permafrost carbon emissions accelerated by abrupt thaw beneath lakes. *Nature Communications* 9, Article number: 3262. doi.org/10.1038/s41467-018-05738-9 [Full Publication]
69. Farquharson, L., D. H. Mann, T. Rittenour, P. Groves, G. Grosse, and **B. M. Jones**. 2018. Alaskan marine transgressions record out-of-phase Arctic Ocean glaciation during the last interglacial. *Geology Online First*. doi.org/10.1130/G40345.1 [Full Publication]
68. Shu, S., H. Liu, F. Frappart, Y. Huang, S. Wang, K. M. Hinkel, R. A. Beck, B. Yu, **B. M. Jones**, C. D. Arp, L. Wang, and Z. Ye. 2018. Estimation of snow accumulation over frozen Arctic lakes using repeat ICESat laser altimetry observations – A case study in northern Alaska. *Remote Sensing of Environment* 216: 529-543. doi.org/10.1016/j.rse.2018.07.018 [Full Publication]
67. Farquharson, L. M., D. H. Mann, D. K. Swanson, **B. M. Jones**, R. M. Buzard, and J. W. Jordan. 2018. Temporal and spatial variability in coastline response to declining sea-ice in northwest Alaska. *Marine Geology* 404: 71-83. doi.org/10.1016/j.margeo.2018.07.007 [Full Publication]
66. Tape, K. D., **B. M. Jones**, C. D. Arp, I. Nitze, and G. Grosse. 2018. Tundra be dammed: Beaver colonization of the Arctic. *Global Change Biology Early View*. doi:10.1111/gcb.14332 [Full Publication]
65. Cai, L., V. A. Alexeev, C. D. Arp, **B. M. Jones**, and V. E. Romanovsky. 2018. Modelling the impacts of projected sea ice decline on the low atmosphere and near-surface permafrost on the North Slope of Alaska. *International Journal of Climatology*. Online First. doi.org/10.1002/joc.5741 [Full Publication]
64. Cai, L., V. A. Alexeev, C. D. Arp, **B. M. Jones**, A. K. Liljedahl, and A. Gadeke. 2018. The Polar WRF Downscaled Historical and Projected Twenty-First Century Climate for the Coast and Foothills of Arctic Alaska. *Frontiers in Earth Science*. doi.org/10.3389/feart.2017.00111 [Full Publication]

63. Baughman, C. A., **B. M. Jones**, K. L. Bodony, D. H. Mann, C. F. Larsen, E. Himelstoss, and J. Smith. 2018. Remotely sensing the morphometrics and dynamics of a cold region dune field using historical aerial photography and airborne LiDAR data. *Remote Sensing* 10:792. doi.org/10.3390/rs10050792 [Full Publication]
62. Engram, M., C. D. Arp, **B. M. Jones**, O. A. Ajadi, and F. J. Meyer, 2018. Analyzing floating and bedfast lake ice regimes across Arctic Alaska using 25 years of space-borne SAR imagery. *Remote Sensing of Environment* 209: 660-676. doi.org/10.1016/j.rse.2018.02.022 [Full Publication]
61. Pastick, N. J., M. T. Jorgenson, S. J. Goetz, **B. M. Jones**, B. K. Wylie, B. J. Minsley, H. Genet, J. F. Knight, D. K. Swanson, and J. C. Jorgenson. 2018. Spatiotemporal remote sensing of ecosystem change and causation across Alaska. *Global Change Biology Online First*. doi.org/10.1111/gcb.14279 [Full Publication]
60. Fuchs, M., G. Grosse, **B. M. Jones**, J. Strauss, C. A. Baughman, and D. A. Walker. 2018. Sedimentary and geochemical characteristics of two small permafrost-dominated Arctic river deltas in northern Alaska. *Arktos* 4:20. doi.org/10.1007/s41063-018-0056-9 [Full Publication]
59. Gaglioti, B. V., D. H. Mann, P. Groves, M. L. Kunz, L. M. Farquharson, R. E. Reanier, **B. M. Jones**, and M. J. Wooller. 2018. Aeolian stratigraphy describes ice-age paleoenvironments in unglaciated Arctic Alaska. *Quaternary Science Reviews* 182:175-190. doi:10.1016/j.quascirev.2018.01.002 [Full Publication]
58. Günther, F., Grosse, G., and Jones, B. M. (Eds.). 2018. 15th International Circumpolar Remote Sensing Symposium – Book of Abstracts, 10 – 14 September 2018, Potsdam, Germany. Bibliothek Wissenschaftspark Albert Einstein. doi:10.2312/GFZ.LIS.2018.002.
57. **Jones, B.M.**, Arp, C.D., Whitman, M. S., Nigro, D., Nitze, I., Beaver, J., Gadeke, A., Zuck, C., Liljedahl, A., Daanen, R., Torvinen, E., Fritz, S., and Grosse, G., 2017. A lake-centric geospatial database to guide research and inform management decisions in an Arctic watershed in northern Alaska experiencing climate and land-use changes, *Ambio*, v. 46, p. 769-786.
56. Nitze, I., Grosse, G., **Jones, B.M.**, Arp, C.D., Ulrich, M., Federov, A., and Veremeeva, A., 2017. Landsat-Based Trend Analysis of Lake Dynamics across Northern Permafrost Regions, *Remote Sensing*, v. 9, p. 640.
55. Gaglioti, B. V., Mann, D.H., Wooller, M.J., **Jones, B. M.**, Wiles, G. C., Groves, P., Kunz, M. L., Baughman, C. A., and Reanier, R. E., 2017. Younger-Dryas cooling and sea-ice feedbacks were prominent features of the Pleistocene-Holocene transition in Arctic Alaska, *Quaternary Science Reviews*, v. 169, p.330-343.
54. Muster, S., Roth, K., Langer, M., Lange, S., Cresto Aleina, F., Bartsch, A., Morgenstern, A., Grosse, G., **Jones, B.M.**, Sannel, A. B. K., Sjöberg, Y., Günther, F., Andresen, C., Veremeeva, A., Lindgren, P. R., Bouchard, F., Lara, M. J., Fortier, D., Charbonneau, S., Virtanen, T. A., Hugelius, G., Palmtag, J., Siewert, M. B., Riley, W. J., Koven, C. D., and

- Boike, J.. 2017. The permafrost regional lake database (PeRL), Earth System Science Data, v. 9, p. 317-348.
53. **Jones, B. M.**, Baughman, C. A., Romanovsky, V. E., Parsekian, A. D., Babcock, E. L., Stephani, E., Jones, M. C., Grosse, G., and Berg, E. E., 2016. Presence of rapidly degrading permafrost plateaus in south-central Alaska, *The Cryosphere*, v. 10, p. 2673-2692.
 52. Lenz, J., **Jones, B. M.**, Wetterich, S., Tjallingii, R., Fritz, M., Arp, C. D., Rudaya, N., and Grosse, G., 2016. Impacts of shore expansion and catchment characteristics on lacustrine thermokarst records in permafrost lowlands, Alaska Arctic Coastal Plain, *arktos*, v. 2, p.25.
 51. Farquharson, L. M., Mann, D.H., Grosse, G., **Jones, B.M.**, and Romanovsky, V. E., 2016. Spatial distribution of thermokarst terrain in Arctic Alaska, *Geomorphology*, v. 273, p. 116-133.
 50. Alexeev, V. A., Arp, C.D., **Jones, B.M.**, and Cai, L., 2016. Arctic sea ice decline contributes to thinning lake ice trend in northern Alaska, *Environmental Research Letters*, v. 11, p. 074022.
 49. Arp, C. D., **Jones, B.M.**, Grosse, G., Bondurant, A.C., Romanovsky, V.E., Hinkel, K.M., and Parsekian, A.D., 2016. Threshold sensitivity of shallow arctic lakes and sub-lake permafrost to changing winter climate, *Geophysical Research Letters*, v. 43, p. 6358-6365.
 48. Lenz, J., Grosse, G., **Jones, B.M.**, Walter Anthony, K.M., Bobrov, A., Wulf, S., and Wetterich, S., 2016, Mid-Wisconsin to Holocene permafrost and landscape dynamics based on a drained lake basin core from the northern Seward Peninsula, Northwest Alaska. *Permafrost and Periglacial Processes*, v. 27, p. 56-75.
 47. Edwards, M., Grosse, G., **Jones, B.M.**, and McDowell, P., 2016, The evolution of a thermokarst-lake landscape: late-Quaternary permafrost degradation and stabilization in interior Alaska, *Sedimentary Geology*, v. 340, p. 3-14.
 46. Gaglioti, B.V., Mann, D.H., **Jones, B.M.**, Wooller, M.J., and Finney, B.P., 2016, High-resolution records detect human-caused changes to the boreal forest wildfire regime in interior Alaska, *The Holocene*, v. 26, p. 1064-1074.
 45. Arp, C.D., **Jones, B.M.**, Liljedahl, A.K., Hinkel, K.M., and Welker, J.A., 2016, Depth, ice thickness, and ice-out timing cause divergent hydrologic responses among Arctic lakes, *Water Resources Research*, v. 51, p. 9379-9401.
 44. Baughman, C.A., **Jones, B.M.**, Bartz, K., Young, D., and Zimmerman, C.E. 2015, Reconstructing turbidity in a glacially influenced lake using the Landsat TM and ETM+ Surface Reflectance Climate Data Record Archive, Lake Clark, Alaska, *Remote Sensing*, v. 7, p. 13692-13710.
 43. **Jones, B.M.**, Grosse, G., Arp, C.D., Miller, E., Liu, L., Hayes, D.J., and Larsen, C.F. 2015. Recent Arctic tundra fire initiates widespread thermokarst development. *Scientific Reports*, v. 5, p.15865.

42. **Jones, B. M.**, and C. D. Arp. 2015. Observing a catastrophic thermokarst lake drainage in northern Alaska: *Permafrost and Periglacial Processes*, v. 26, p. 119-128.
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