

DR. BENJAMIN M. JONES

Research Associate Professor
Institute of Northern Engineering, University of Alaska Fairbanks
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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
(honors)
University of Cincinnati, Cincinnati, OH

POSITIONS

07/23 – Present **Research Associate Professor**
Institute of Northern Engineering - UAF

06/18 – 07/23 **Research Assistant Professor**
Institute of Northern Engineering - 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

- Enhancing the Integrated System for Operations in Polar Seas (ISOPS) (Department of Defense) – 2024-2027 (\$4,999,518) **Co-PI**
- NNA Collaboratory: Collaborative Research: ACTION - Alaska Coastal Cooperative for Co-producing Transformative Ideas and Opportunities in the North (National Science Foundation) – 2023-2027 (\$9,475,309) **Other Personnel**

- Conference: Enhancing Arctic Science and Engineering (EASE) Workshop (National Science Foundation) – 2022-2023 (\$299,103) **PI**
- Earth Observation for Permafrost-dominated Arctic Coasts (EO4PAC) (European Space Agency) – 2021-2023 (\$30,000) **PI**
- NNA Research: Permafrost Grown: Cultivating convergence between farmers and researchers to foster sustainability for intensifying permafrost-agroecosystems (National Science Foundation) – 2022-2027 (\$3,000,000) **Co-PI**
- Arctic Beaver Observation Network (A-BON): Tracking a new disturbance regime (National Science Foundation) – 2021-2026 (\$2,509,381) **Co-PI**
- Collaborative Research: AccelNet: Permafrost Coastal Systems Network (PerCS-Net) -- a circumpolar alliance for arctic coastal community information exchange (National Science Foundation) – 2019-2024 (\$1,627,000) **PI**
- Collaborative Research: Sea-level rise, coastal wetland expansion, and proglacial lake contributions to abrupt increases in northern atmospheric CH₄ during the last deglaciation (National Science Foundation) – 2019-2022 (\$440,000) **Co-PI**
- NNA Track 1: Landscape evolution and adaptation to change in ice-rich permafrost systems (National Science Foundation) – 2019-2023 (\$3,000,000) **Senior Personnel**
- Interdisciplinary Research for Arctic Coastal Environments (InterFACE) (Department of Energy) – 2019-2021 (\$1,875,000) **Other Personnel**
- Emergence of beavers as ecosystem engineers in the New Arctic (National Science Foundation) – 2019-2022 (\$800,000) **Co-PI**
- NNA Track 1: Collaborative Research: The Permafrost Discovery Gateway - Navigating the new Arctic tundra through Big Imagery, artificial intelligence, & cyberinfrastructure (National Science Foundation) – 2019-2023 (\$881,000) **Co-PI**
- RII Track-4: PermaSense: Investigating permafrost landscapes in transition using multidimensional remote sensing, data fusion, and machine learning techniques (National Science Foundation) – 2019-2021 (\$296,000) **PI**
- NSF Support for the 16th International Circumpolar Remote Sensing Symposium (National Science Foundation) – 2020-2021 (\$19,000) **Co-PI**
- 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) **PI**
- 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-PI**
- A predictive model for arctic coastal erosion (Sandia National Laboratory, US Department of Energy) – 2018 to 2019 (\$65,000) **Co-PI**
- 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 ARCN (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-PI**
- 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

01/24-Present	Co-advisor for Logan Wieland (PhD student in Geosciences, UAF)
01/24-Present	Co-advisor for Cameron Kuhle (PhD student in Geosciences, UAF)
01/24-Present	Co-advisor for Isaiah Ditmer (PhD student in Geosciences, UAF)
09/20-Present	Committee member for Sasha Peterson (PhD student in Coastal Studies, UTEP)
09/20-Present	Committee member for Soumitra Sakhalkar (PhD student in Remote Sensing, UAF)
01/18 – 06/23	Committee member for Richard Buzard (PhD Geology and Geophysics, UAF)
12/19 – 09/21	Postdoctoral mentor for Helena Bergstedt
08/17 – 12/20	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
- Interagency Arctic Research Policy Committee
- U.S. Permafrost Association (Lifetime Member)

PROFESSIONAL SERVICE

- Editor for the journal *Frontiers in Earth Science Cryosphere*
- 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 Community of Practice 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

- Beaver expansion into Alaska’s Arctic tundra presents problems for people, but also opportunities, March 2024, Anchorage Daily News: <https://www.adn.com/alaska-news/wildlife/2024/03/11/beaver-expansion-into-alaskas-arctic-tundra-presents-problems-for-people-and-opportunities/>
- International Arctic Coastal Networks Connecting in Connecticut, December 2022, ARCUS: <https://www.arcus.org/witness-the-arctic/2022/12/highlight/1>
- Celebrating 75 Years of Arctic Research in Utqiagvik, Alaska, October 2022, ARCUS: <https://www.arcus.org/witness-the-arctic/2023/2/highlight/2>
- A grateful scientist celebrates an Arctic lab’s pioneers, 07 September 2022, UAF GI: <https://www.gi.alaska.edu/news/grateful-scientist-celebrates-arctic-labs-pioneers>
- Infrastructure and Permafrost Degradation in Point Lay, Alaska, August 2022, ARCUS: <https://www.arcus.org/witness-the-arctic/2022/9/highlight/2>
- As beavers gain foothold in Arctic Alaska, some see benefits in how they reshape the landscape, 23 April 2023, Anchorage Daily News: <https://www.adn.com/alaska-news/rural-alaska/2023/04/22/as-beavers-gain-foothold-in-arctic-alaska-some-see-benefits-in-how-they-reshape-the-landscape/>
- Permafrost knowledge needed to support sustainable northern agriculture, 11 August 2022, UAF News and Information: <https://uaf.edu/news/permafrost-knowledge-needed-to-support-sustainable-northern-agriculture.php>
- Science shorts: Wildfires and permafrost, 13 December 2021, Fairbanks Daily News-Miner, https://www.newsminer.com/news/alaska_news/science-shorts-wildfires-and-permafrost-forecasting-winter-rain-bogoslof-s-magma/article_93f099aa-5bac-11ec-a026-8f2900a12d2b.html
- Leave it to beavers, 02 February 2021, UAF Aurora Magazine, <https://news.uaf.edu/wp-content/uploads/2021/02/Leave-it-to-beavers-Aurora-winter-2021.pdf>

- Return to crash site is emotional, healing, 12 September 2020, Anchorage Daily News: <https://www.adn.com/alaska-news/science/2020/09/12/return-to-crash-site-is-emotional-healing/>
- Beavers are accelerating climate change in Alaska, 08 July 2020, Smithsonian Magazine: <https://www.smithsonianmag.com/smart-news/beavers-are-accelerating-climate-change-alaska-180975260/>
- Beavers might be making the Arctic melt even faster, 01 July 2020, Popular Science: <https://www.popsoci.com/story/environment/beavers-tundra-permafrost-melt/>
- 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/#.VJXly4BAA

PEER-REVIEWED PUBLICATIONS

154. Eklof, J., **Jones, B.M.**, Dafflon, B., Devoie, E.G., Ring, K.M., English, M.E., Waldrop, M.P., and Neumann, R.B. Accepted. Canopy Cover and Microtopography Control Precipitation-Enhanced Thaw of Ecosystem-Protected Permafrost. *Environmental Research Letters*.
153. Wolter, J., **Jones, B.M.**, Fuchs, M., Breen, A., Bussmann, I., Koch, B., Lenz, J., Myers-Smith, I., Sachs, T., Strauss, J., Nitze, I., and Grosse, G. 2024. Post-drainage vegetation, microtopography and organic matter in Arctic drained lake basins. *Environmental Research Letters* 19 045001. <https://doi.org/10.1088/1748-9326/ad2eeb>
152. **Jones, B.M.**, Kanevskiy, M., Parsekian, A., Bergstedt, H., Ward Jones, M.K., Rangel, R., Hinkel, K.M., and Shur, Y. 2023. Rapid saline permafrost thaw below a shallow thermokarst lake in Arctic Alaska. *Geophysical Research Letters* 50 (22), e2023GL105552. <https://doi.org/10.1029/2023GL105552>
151. Piliouras, A., **Jones, B.M.**, Clevenger, T., Gibbs, A.E., and Rowland, J.C., 2023 . Variability in terrestrial characteristics and erosion rates on the Alaskan Beaufort Sea coast. *Environmental Research Letters* 18 114050. <https://doi.org/10.1088/1748-9326/ad04b8>
150. Miller, E.A., Baughman, C.A., **Jones, B.M.**, and Jandt, R.R. 2023. Biophysical effects of a prehistoric tundra burn on the Arctic Slope, Alaska, U.S.A. *Polar Science*. <https://doi.org/10.1016/j.polar.2023.100984>
149. Rangel, R.C., Ohara, N., Parsekian, A.D., and **Jones, B.M.** 2023. Arctic Tundra Lake Drainage Increases Snow Storage in Drifts. *Journal of Geophysical Research: Earth Surface* 128 e2023JF007294. <https://doi.org/10.1029/2023JF007294>.
148. Wang, Z., Xiao, M., Liew, M., Jensen, A., Farquharson, L., Romanovsky, V., Nicolsky, D., McComb, C., and **Jones, B.M.** 2023. Geohazard Risk Assessment Tools for Arctic Civil

Infrastructure Planning: A Systematic Review. *Cold Regions Science and Technology* 214 103969. <https://doi.org/10.1016/j.coldregions.2023.103969>

147. Clark, J.A. Tape, K.D., Baskaran, L., Elder, C., Miller C., Miner, K., and **Jones, B.M.** 2023. Do beaver ponds increase methane emissions along Arctic tundra streams? *Environmental Research Letters* 18 075004. <https://doi.org/10.1088/1748-9326/acde8e>
146. **Jones, B.M.**, Tessier, S.S., Tessier, T., Brubaker, M., Brook, M., Schaeffer, J., Ward Jones, M.K., Grosse, G., Nitze, I., Rettelbach, T., Savoico, S., Clark, J.A., and Tape, K.D. 2023. Integrating local environmental observations and remote sensing to better understand the life cycle of a thermokarst lake in Arctic Alaska. *Arctic, Antarctic, and Alpine Research*, 55 (1), 2195518. <https://doi.org/10.1080/15230430.2023.2195518>
145. Buzard, R.M. Kinsman, N.E.M., Maio, C.V., Eriskon, L., **Jones, B.M.**, Anderson, S., Glenn, R.J.T., and Overbeck, J.R. 2023. Barrier Island Reconfiguration Leads to Rapid Erosion and Relocation of a Rural Alaska Community. *Journal of Coastal Research*.
144. Connor, B. G., **B. M. Jones**, M. Kanevskiy, D. J. Nicolsky, J. L. Peirce, V. E. Romanovsky, and Y. L. Shur. 2023. Permafrost & remote sensing studies: 2022 field report for Point Lay, Alaska. AGC Data Report 23-01, Alaska Geobotany Center, Fairbanks, Alaska, USA.
143. Miller, E.A., **Jones, B.M.**, Baughman, C.A., Jandt, R.R., Jenkins, J.L., and Yokel, D.A. 2023. Unrecorded tundra fires of the Arctic Slope, Alaska U.S.A. *Fire* 6(3), 101. <https://doi.org/10.3390/fire6030101>
142. Zhang, Y., Jafarov, E., Piliouras, A., **Jones, B.M.**, Rowland, J.C., and Moulton, J.D. 2023. The thermal response of permafrost to coastal flooding. *Environmental Research Letters* 18 035004. <https://doi.org/10.1088/1748-9326/acba32>
141. Clark, J.A., E.E. Jafarov, K.D. Tape, **B.M. Jones**, and V. Stepanenko. 2022. Thermal modeling of three lakes within the continuous permafrost zone in Alaska using LAKE 2.0 model. *Geoscientific Model Development* 15, 7421-7448. <https://doi.org/10.5194/gmd-15-7421-2022>
140. Arboleda-Zapata, M., Angelopoulos, M., Overduin, P.P., Grosse, G., **Jones, B.M.**, and Tronicke, J. 2022. Exploring the capabilities of electrical resistivity tomography to study subsea permafrost. *The Cryosphere*, 16, 4423-4445. <https://doi.org/10.5194/tc-16-4423-2022>
139. Torvinen, E., J. A. Falke, C. D. Arp, **B. M. Jones**, M. S. Whitman, and C. E. Zimmerman. 2023. Lake trout (*Salvelinus namaycush*) otoliths as indicators of past climate patterns and growth in Arctic lakes. *Ecology of Freshwater Fish*. <https://doi.org/10.1111/eff.12678>.
138. Ward Jones, M.K., T. Schwoerer, T., G.M. Gannon, **B.M. Jones**, M.Z. Kanevskiy, I. Sutton, B. St Pierre, C. St Pierre, J. Russell, and D. Russell. 2022. Climate-driven expansion of northern agriculture must consider permafrost. *Nature Climate Change* 12, 699-703. <https://doi.org/10.1038/s41558-022-01436-z>

137. Bergstedt, H., **B.M. Jones**, D.A. Walker, J. Peirce, A. Bartsch, G. Pointner, M. Kanevskiy, M. Reynolds, and M. Buchhorn. 2022. The spatial and temporal influence of infrastructure and road dust on seasonal snowmelt, vegetation productivity, and early season surface water cover in the Prudhoe Bay Oilfield. *Arctic Science*. <https://doi.org/10.1139/AS-2022-0013>
136. Jorgenson, M.T., M. Kanevskiy, J. Jorgenson, A. Liljedahl, Y. Shur, H. Epstein, C. Griffin, K. Kent, R. Daanen, M. Boldenow, K. Orndahl, C. Witharana, and **B.M. Jones**. 2022. Rapid transformation of tundra ecosystems from ice-wedge degradation. *Global and Planetary Change* 216, 103921. <https://doi.org/10.1016/j.gloplacha.2022.103921>
135. Rettelbach, T., M. Langer, I. Nitze, **B.M. Jones**, V. Helm, J-H Freytag, and G. Grosse. 2022. From Images to Hydrologic Networks - Understanding the Arctic Landscape with Graphs. SSDBM 2022, July 6–8, 2022, Copenhagen, Denmark. <https://doi.org/10.1145/3538712.3538740>
134. Gaedeke, A., C.D. Arp, A.K. Liljedahl, R.P. Daanen, L. Cai, V. Alexeev, **B.M. Jones**, M. Wipfli, and J. Schulla. 2022. Modeled streamflow response to documented tundra lake water withdrawal and observed seasonal weather extremes, Arctic Coastal Plain, Alaska. *Water Resources Research*, 58, e2022WR03219. <https://doi.org/10.1029/2022WR032119>
133. Witharana, C., M.R. Udawalpola, A.K. Liljedahl, M.K. Ward Jones, **B.M. Jones**, A. Hasan, D. Joshi, and E. Manos. 2022. Automated Detection of Retrogressive Thaw Slumps in the High Arctic Using High-Resolution Satellite Imagery. *Remote Sensing* 14, 4132. <https://doi.org/10.3390/rs14174132>
132. Ohara, N., **B.M. Jones**, A.D. Parsekian, K.M. Hinkel, K. Yamatani, M. Kanevskiy, R.C. Rangel, A.L. Breen, and H. Bergstedt. 2022. Three-dimensional Stefan equation for thermokarst lake and talik geometry characterization. *The Cryosphere*, 16, 1247-1264. <https://doi.org/10.5194/tc-16-1247-2022>.
131. Tape, K.D., J.A. Clark, **B.M. Jones**, S. Kantner, B.V. Gaglioti, G. Grosse, and I. Nitze. 2022. Expanding beaver pond distribution in Arctic Alaska, 1949 to 2019. *Scientific Reports* 12, 7123. <https://doi.org/10.1038/s41598-022-09330-6>.
130. Liew, M., Xiao, M., Farquharson, L.M., Nicolsky, D., Jensen, A., Romanovsky, V., Peirce, J., Alessa, L., McComb, C., Zhang, X., and **Jones, B.M.** 2022. Understanding Effects of Permafrost Degradation and Coastal Erosion on Civil Infrastructure in Arctic Coastal Villages: A Community Survey and Knowledge Co-Production. *Journal of Marine Science and Engineering* 10, 422. <https://doi.org/10.3390/jmse10030422>.
129. Ohara, N., S. He, A.D. Parsekian, **B.M. Jones**, R.C. Rangel, I.O. Nichols, and K.M. Hinkel. 2022. Spatial Snowdrift Modeling for an Open Natural Terrain using a Physically-based Linear Particle Distribution Equation. *Hydrologic Processes* 36, e14468. <https://doi.org/10.1002/hyp.14468>.
128. Walker, D.A., M.K. Reynolds, M.Z. Kanevskiy, Y. Shur, V.E. Romanovsky, **B.M. Jones**, M. Buckhorn, M.T. Jorgensons, J. Sibik, A.L. Breen, A. Kade, E. Watson-Cook, H. Bergstedt, A. Liljedahl, R. Daanen, B. Connor, D. Nikolsky, and J.L. Peirce. 2022.

- Cumulative impacts of a gravel road and climate change in an ice-wedge polygon landscape, Prudhoe Bay, Alaska. *Arctic Science*. <https://doi.org/10.1139/AS-2021-0014>
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