

## **CURRICULUM VITAE: ANNE E. JENNINGS**

Senior Research Associate; INSTAAR Fellow  
Institute of Arctic and Alpine Research (INSTAAR)  
University of Colorado  
Boulder, CO, USA 80309-450

### **Education**

1989      PhD., Geology, University of Colorado, Boulder.  
1986      M.Sc., Geology, University of Colorado, Boulder.  
1980      B.S., Geology, Duke University.

### **Professional and Educational Experience**

January 1, 2000- Present: Fellow, INSTAAR, University of Colorado, Boulder.  
Editor, Arctic, Antarctic and Alpine Research, October 2004 to present  
2023    Co-Chief Scientist-IODP (International Ocean Discovery Program) Expedition 400, NW  
Greenland Glaciated Margin (August 14-Oct. 13, 2023) to project completion in 2025.

### **Academic Awards and Honors**

2015    Fellow of the Geological Society of America (GSA)

### **Research Interests**

Research interests include 1) Holocene paleoceanography and sea-ice history of Greenland; Canadian Arctic Island Channels, and Baffin Island margins 2) glacio-marine sedimentation: stratigraphy, paleoenvironments, and glacial history on high latitude margins (East Greenland, West Greenland, Arctic Island Channels); and 3) Modern foraminiferal distributions and ecology on high latitude margins. 4) Sub-ice shelf sedimentation and sub-ice shelf foraminifera in the Petermann Fjord, NW Greenland. 5) Baffin Bay late Cenozoic history, LGM and deglaciation

### **Current International Collaboration**

Helen Coxall, Stockholm University, Sweden; Juliette Girard, Laval University, Quebec, Canada; Kimberley Jenner, AGC-Atlantic, Canada; Paul Knutz, GEUS, Denmark; Alexandre Normandeau, AGC-Atlantic, Canada; Christof Pearce, Aarhus University; Marit-Solveig Seidenkrantz, Aarhus Univ., Denmark; Guillaume St-Onge, Laval University, Quebec, Canada.

### **Teaching and Thesis Committees**

2024: Katherine Stelling, Oregon State University.

2021: Opponent for PhD thesis defense of Naima El bani Altuna, University of Tromsø, Norway

2017: Honors thesis committee for Blythe Befus. Geological Sciences.

2016: Honors thesis committee for Anna Klein, Geological Sciences.

2014: Member of Dissertation committee for Whitney Doss and member of MS committee for Hannah Grist, Geological Sciences.

2012-2014: Member of Dissertation committee for Ursula Quillmann. Member of MS committee for Christina Sheldon, Geological Sciences.

2011-2014: Member of Dissertation committee for Ursula Quillmann, and Mary Ellen Benson, Geological Sciences; Member of MS committee, Christina Sheldon, Geological Sciences. PhD committee of Olivia Gibb, GEOTOP, Montreal, External Examiner, PhD committees of Dorthe Reng Erbs-Hansen, Aarhus University, Denmark and Anna Pienkowski, Univ. of Alberta, Canada.

August 2011: Guest Lecturer at UNIS, the University Centre in Svalbard for course AG-339 Reconstruction of glacial marine sedimentary processes and environments on high-latitude continental margins.

2010: Member of Dissertation committee for Ursula Quillmann, Geological Sciences, Mariah Walton, ATOC, Saedis Olafsdottir, University of Iceland. MS committee member for Benjamin Schupak, Geological Sciences, PhD committee of Olivia Gibb, GEOTOP, Montreal.

2009: Member of Dissertation committee for Ursula Quillmann, Geological Sciences, Mariah Walton, ATOC, Saedis Olafsdottir, University of Iceland. MS committee member for Benjamin Schupak, Geological Sciences.

2008: Member of Dissertation committee for Saedis Olafsdottir (Univ. of Iceland) and Ursula Quillmann, Geological Sciences. Committee member for Mary Ellen Benson, Geological Sciences.

2007: Member of Dissertation committee for Saedis Olafsdottir (Univ. of Iceland), Jessica Black, and Ursula Quillmann, Geological Sciences. Committee member for Mary Ellen Benson, Geological Sciences. Member of undergraduate Honors thesis commit for George C. Coleman, Environmental Studies.

2006: Dissertation committee member for Saedis Olafsdottir, Univ. of Iceland and Jessica Black, Geological Sciences, Univ. of Colorado. MS thesis committee member for Ursula Quillmann, graduated 2006. Committee member for Mary Ellen Benson, Geological Sciences (Comprehensive and Preliminary exams). Opponent at Marta Slubowska's PhD thesis defense, UNIS, Longyearben, Svalbard.

2005: Dissertation committee member for Greta-Bjorck Kristjansdottir and Gita Dunhill. Both graduated 2005. MS thesis committee member for Ursula Quillmann, Geological Sciences, and Saedis Olafsdottir, University of Iceland. Undergraduate Honors thesis committee member for Tara Chesley, Geological Sciences.

2004: Taught a course in Spring semester on Foraminifera to 3 students in the Geology Department, two undergraduates (Tara Chesley and Ali Jaffri) and one graduate student (Ursula Quillman). The course was listed as independent study, but comprised weekly lab and lecture.

Dissertation committee for Gita Dunhill, Greta-Bjorck Kristjansdottir. MS committee member for Ursula Quillman. Honors thesis committee member for Tara Chesley. MS committee for Saedis Olafsdottir, visiting student from University of Iceland.

### **Current Funding**

IODP (International Ocean Discovery Program) Expedition 400, NW Greenland Glaciated Margin scheduled for August 7-October 7, 2023. Based on proposals 909-Full2 and 909-Add. Cenozoic evolution of the northern Greenland Ice Sheet exposed by transect drilling in northeast Baffin Bay (CENICE). Paul Knutz and Anne Jennings Co-Chief Scientists. Expedition took place August 11- October 14, 2023. On shore, post expedition funding in force.

IODP Post Expedition Activities: Sediment Provenance during Pleistocene Glacial-Interglacial cycles and foraminiferal evidence for West Greenland Current temperatures during the Plio-Pleistocene. PI Jennings, A.E., \$19,988, March 3, 2024-May 31, 2025.

NSF-OCE-MG&G. Collaborative Research: Spatiotemporal observations of the demise of an ice sheet: Paleo perspectives from Baffin Bay, West Greenland. CU PI, Jennings, A.E., \$288,475, 3-year. Multi institutional group with lead PI, Rob Hatfield, Univ. Florida. Other partners are UNC Wilmington, and OSU Corvallis.

Independent Research Fund Denmark. Pliocene and Early Pleistocene: analogue for a future warm Arctic (PlioARC). PI, Professor Marit-Solveig Seidenkrantz, Jennings collaborator.

### **Field Work:**

August-October 2023. Co-Chief Scientist-IODP (International Ocean Discovery Program) Expedition 400, NW Greenland Glaciated Margin.

July-Sept. 2015. Petermann Gletscher, Greenland - Paleoceanography and Paleoclimatology, on board Swedish Maritime Administration vessel, Icebreaker Oden. US NSF funded expedition.

Aug. 1-Sept. 11 2009. West Greenland research cruise on British Antarctic Survey research ship, RRS James Clark Ross.

CSS Hudson cruise Aug. 2008. Ursula Quillmann represented our group and obtained cores and samples for West Greenland NSF project.

Co-chief scientist, Leg V (Tromsø to Reykjavik) of IMAGES V cruise on French research vessel Marion Dufresne, Aug. 16 - 30, 1999.

Co-chief scientist, Greenland-Iceland margin cruise, 1996 with University of Tromsø on Norwegian research vessel, Jan Mayen, Sept. 19-Oct. 4, 1996

### **Publications:**

- In review Jennings, A.E., Jenner, K., Normandeau, A., Roth, W., Andrews, J.T., Kelleher, R., Girard, J., Reilly, B., Campbell, C., Bennett, F., Retreat of the Boothia-Lancaster Ice stream from its Last Glacial Maximum extent and its role in the origin of Baffin Bay Detrital Carbonate (BBDC) Events 0, 1 and 2. *Quaternary Science Reviews*.
- In press Knutz, P.C., Jennings, A.E., Childress, L.B., and the Expedition 400 Scientists. NW Greenland Glaciated Margin. Proceedings of the International Ocean Discovery Program, 400: CollegeStation, TX (International Ocean Discovery Program). *in press, publication March 2025*.
- 2024 Jennings, A.E., Alexandre Normandeau, A., Kimberley Jenner, K., John Andrews, J.T., Robert Kelleher, R., Marchitto, T.M. [Northern Baffin Bay sediment core evidence for Boothia-Lancaster Ice stream retreat from Last Glacial Maximum extent and for its role in the origin of Baffin Bay Detrital Carbonate \(BBDC\) Events 0, 1 and 2 \(2019-2024\)](#). Arctic Data Center. urn:uuid:bbb28954-6271-4754-972f-c649cdb885e4. doi:10.18739/A2KD1QN3M
- 2024 Jennings, A.E., Harning, D., Kelleher, R., Andrews, J.T., Marchitto, T.M.. [Northern Baffin Bay sediment core evidence for the spatio-temporal variability in the Holocene extent of Pikialasorsuaq \(North Water Polynya\) \(2019-2024\)](#). Arctic Data Center. urn:uuid:96a27011-abde-440f-ba2d-8212ad69f45c. doi:10.18739/A2FQ9Q715
- 2024 Andrews, J.T., Piper, D.J.W., Jennings, A.E., Miller, G.H., 2024. Growth of the Laurentide and Innuitian ice sheets during MIS 5 recorded in distal marine sediment. *Quaternary Science Reviews* 328, 108532
- 2024 Girard, J., Reilly, B. T., St-Onge, G., Lagroix, F., Montero-Serrano, J.-C., Stoner, J. S., & Jennings, A. E. (2024). Paleomagnetic secular variations in North Greenland around 81°N over the last 6,000 years. *Geochemistry, Geophysics, Geosystems* 25, e2024GC011620. <https://doi.org/10.1029/2024GC011620>
- 2024 Knutz, P.C., Jennings, A., Childress, L.B., and the Expedition 400 Scientists, 2024. Expedition 400 Preliminary Report: NW Greenland Glaciated Margin. International Ocean Discovery Program. <https://doi.org/10.14379/iodp.pr.400.2024>
- 2023 Reilly, B. T., Stoner, J. S., Ólafsdóttir, S., Jennings, A., Hatfield, R., Kristjánsdóttir, G. B., Geirsdóttir, Á.. The amplitude and timescales of 0–15 ka paleomagnetic secular variation in the Northern North Atlantic. *Journal of Geophysical Research: Solid Earth*, 128, e2023JB026891. <https://doi.org/10.1029/2023JB026891>
- 2023 Lyså, A., Jennings, A.E., Morigi, C., Stokes, C.R., Winsborrow, M.C.M., Introduction: Processes and palaeo-environmental changes in the Arctic from past to present(PalaeoArc) special issue. *Arctic, Antarctic and Alpine Research* 54:1, 640-647, DOI:10.1080/15230430.2022.2154985
- 2023 Harning, D.J., Holman, B., Woelders, L., Jennings, A.E., Sepúlveda, J., Biomarkercharacterization of the North Water Polynya, Baffin Bay: Implications for local sea ice and temperature proxies. *Biogeosciences* 20, 229-249. doi.org/10.5194/bg-2022-163
- 2023 Andrews, J.T., Roth, W. Jennings, A.E. Grain size and mineral variability of glacialmarine sediment. *Journal of Sedimentary Research* 93, 37-49.2023
- 2022 Knutz, P., Jennings, A., and Childress, L.B., 2022. Expedition 400 Scientific Prospectus: NW Greenland Glaciated Margin. International Ocean Discovery Program. <https://doi.org/10.14379/iodp.sp.400.2022>

- 2022 Jennings, A.E., Reilly, B., Andrews, J.T., Hogan, K., Walczak, M., Jakobsson, M., Stoner, J., Mix, A., Nicholls, K.W., O'Regan, M., Prins, M.A., Troelstra, S.R. Modern and early Holocene ice shelf sediment facies from Petermann Fjord and northern Nares Strait, northwest Greenland. *Quaternary Science Reviews* 283:107460. doi:10.1016/j.quascirev.2022.107460.
- 2022 Kelleher, R., Jennings, A.E., Andrews, J.T., Brooks, N., Marchitto, T., Feng, S., Woelders, L., Jenner, K., Normandeau, A., Bennett, R., Brookins, S. Late Glacial retreat of the Lancaster Sound Ice Stream and early Holocene onset of Arctic/Atlantic throughflow in the Arctic Island Channels. *Arctic, Antarctic and Alpine Research* 54, 395–427 doi.org/10.1080/15230430.2022.2110689.
- 2021 Jennings, A.E., Andrews, J.T. Brian MacLean, September3, 1929 – April 30, 2021, *Arctic, Antarctic, and Alpine Research* 53:1, 212-216, DOI:10.1080/15230430.2021.1957289
- 2021 Detlef, H., Reilly, B., Jennings, A., Jensen, M.M, O'Regan, M., Glasius, M., Olsen, J., Jakobsson, M., Pearce, C. Holocene sea-ice dynamics in Petermann Fjord in relation to ice tongue stability and Nares Strait ice arch formation, *The Cryosphere* 15, 4357-4380. 10.5194/tc-15-4357-2021.
- 2021 Piper, D., Li, G., Andrews, J., Jennings, A., Robertson, L., Transport of fine-grained sediment in oceanic currents: Holocene supply to sediment drifts around Flemish Cap by the Labrador Current. *Marine Geology* 436. June 2021. 106494. https://doi.org/10.1016/j.margeo.2021.106494.
- 2021 Cage, A.G., Pieńkowski, A.J., Jennings, A.E., Knudsen, K.L., Seidenkrantz, M.-S., Comparative analysis of six common foraminiferal species of the genera *Cassidulina*, *Paracassidulina* and *Islandiella* from the Arctic-North Atlantic domain. *Journal of Micropaleontology* 40, 37-60. https://doi.org/10.5194/jm-40-37-2021
- 2021 Harning, D.J., Jennings, A.E., Köseoglu, D., Belt, S.T., Geirsdóttir, Á., Sepúlveda, J. Response of biological productivity to North Atlantic marine front migration during the Holocene. *Climate of the Past* 17, 379–396. doi: 10.5194/cp-17-379-2021
- 2020 Jennings, A.E., Mix, A., Walczak, M., Reilly, B., Stoner, J.S., Dyke, L., Cheseby, M., 2020. Modern Foraminiferal Assemblages in northern Nares Strait and the Petermann Fjord, NW Greenland. Subm. *Arctic Antarctic and Alpine Research* 52, 491-511, doi: 10.1080/15230430.2020.1806986
- 2020 Jennings, A.E., Seidenkrantz, M-S., Knudsen, K.L., 2020. *Glomulina oculus*, new calcareous foraminiferal species from the high Arctic-a potential indicator of a nearby marine-terminating glacier. *Journal of Foraminiferal Research* 50, 219-234.
- 2020 Hogan, K.A., Jakobsson, M., Mayer, L., Reilly, B.T., Jennings, A.E., Stoner, J.S., Nielsen, T., Andresen, K.J., Nørmark, E., Heirman, K.A., Kamla, E., Jerram, K., Stranne, C., Mix, A. (2020). Glacial sedimentation, fluxes and erosion rates associated with ice retreat in Petermann Fjord and Nares Strait, north-west Greenland. *The Cryosphere*, 14, 261-286. doi.org/10.5194/tc-14-261-2020
- 2020 Georgiadis, E., Giraudeau, J., Jennings, A., Limoges, A., Jackson, R., Ribeiro, S., & Massé, G. (2020). Local and regional controls on Holocene sea ice dynamics and oceanography in Nares Strait, Northwest Greenland. *Marine Geology*, 422, 106115. doi:10.1016/j.margeo.2020.106115
- 2019 Reilly, B. T., Stoner, J. S., Mix, A. C., Walczak, M. H., Jennings, A., Jakobsson, M., Cheseby, M. (2019). Holocene break-up and reestablishment of the Petermann Ice

- Tongue, Northwest Greenland. *QUATERNARY SCIENCE REVIEWS*, 218, 322-342. doi:10.1016/j.quascirev.2019.06.023
- 2019 Jennings, A., Andrews, J., Oliver, B., Walczak, M., Mix, A. (2019). Retreat of the Smith Sound Ice Stream in the Early Holocene. *Boreas*. doi.org/10.1111/bor.12391.
- 2019 Lysa, A., Benediktsson, I. O., Emery, A., Gregoire, L., Jennings, A., Morigi, C., Winsborrow, M. (2019). The First International Conference on 'Processes and Palaeo-Environmental Changes in the Arctic: From Past to Present' (PalaeoArc). *GEOLOGOS*, 25(2), 175-179. doi:10.2478/logos-2019-0016
- 2018 Cofaigh, C. O., Hogan, K. A., Jennings, A. E., Callard, S. L., Dowdeswell, J. A., Noormets, R., & Evans, J. (2018). The role of meltwater in high-latitude trough-mouth fan development: The Disko Trough-Mouth Fan, West Greenland. *MARINE GEOLOGY*, 402, 17-32. doi:10.1016/j.margeo.2018.02.001
- 2018 Jakobsson, M., Hogan, K. A., Mayer, L. A., Mix, A., Jennings, A., Stoner, J., . . . Stranne, C. (2018). The Holocene retreat dynamics and stability of Petermann Glacier in northwest Greenland. *NATURE COMMUNICATIONS*, 9, 11 pages. doi:10.1038/s41467-018-04573-2
- 2018 Jennings, A., Bowman, W. D., Bowlds, L., & Hall-Bowman, J. (2018). 50 years of Arctic, Antarctic, and Alpine Research. *ARCTIC ANTARCTIC AND ALPINE RESEARCH*, 50(1), 2 pages. doi:10.1080/15230430.2017.1420851
- 2018 Andrews, J. T., Cabedo-Sanz, P., Jennings, A. E., Olafsdottir, S., Belt, S. T., & Geirsdottir, A. (2018). Sea ice, ice-rafting, and ocean climate across Denmark Strait during rapid deglaciation (similar to 16-12 cal ka BP) of the Iceland and East Greenland shelves. *JOURNAL OF QUATERNARY SCIENCE*, 33(1), 112-130. doi:10.1002/jqs.3007
- 2018 Wangner, D. J., Jennings, A. E., Vermassen, F., Dyke, L. M., Hogan, K. A., Schmidt, S., Andresen, C. S. (2018). A 2000-year record of ocean influence on Jakobshavn Isbr AE calving activity, based on marine sediment cores. *HOLOCENE*, 28(11), 1731-1744. doi:10.1177/0959683618788701
- 2017 Jennings, A.E., Andrews, J.T., Ó Cofaigh, C., St. Onge, G., Belt, S., Cabedo-Sanz, P., Pearce, C., Hillaire-Marcel, C., Campbell, C., Baffin Bay paleoenvironments in the LGM and HS1: Resolving the ice-shelf question. *Marine Geology*. <http://dx.doi.org/10.1016/j.margeo.2017.09.002>
- 2017 Jennings, A.E., Andrews, J.T., Ó Cofaigh, C., St. Onge, G., Sheldon, C., Belt, S.T., Cabedo-Sanz, P., Hillaire-Marcel, C., Ocean forcing of Ice Sheet retreat in central west Greenland from LGM to the early Holocene. *Earth and Planetary Science Letters* 472, 1-13. DOI: 10.1016/j.epsl.2017.05.007
- 2017 Darby, D., Andrews, J.T., Belt, S., Jennings, A.E., Cabedo-Sanz, P. Holocene cyclic records of ice-rafted debris and sea ice variations on the East Greenland and Northwest Iceland margins. *Arctic, Antarctic and Alpine Research* 49 (4), 649-672.
- 2017 Andrews, J., Kristjansdottir, G. B., Moros, M., & Jennings, A. E. (2017). Holocene Mg/Ca, alkenones, and light stable isotope measurements on the outer North Iceland shelf (MD99-2269): A comparison of proxy data. *The Holocene*, 1-11.
- 2017 Hasenfratz, A.P., Schiebel, R., Thornalley, D.J.R., Schönfeld, J., Jaccard, S.L., Martínez-García, A., Ann Holbourn, A., Jennings, A.E., Kuhnt, W., Lear, C.H., Marchitto, T.M., Quillmann, U., Rosenthal, Y., Yu, J., Haug, G.H. Mg/Ca-temperature calibration for the benthic foraminifera *Melonis barleeanum* and *Melonis pompilioides*. *Geochimica*

- et Cosmochimica Acta* 217 (2017) 365–383. <http://dx.doi.org/10.1016/j.gca.2017.08.038>
- 2017 Streuff, K., Ó Cofaigh, C., Hogan, K., Jennings, A., Lloyd, J.M., Noormets, R., Nielsen, T., Kuijpers, A., Dowdeswell, J.A., Weinrebe, W., Seafloor geomorphology and glacial marine sedimentation associated with fast-flowing ice sheet outlet glaciers in Disko Bay, West Greenland. *Quaternary Science Reviews* 169, 206-230. <http://dx.doi.org/10.1016/j.quascirev.2017.05.021>
- 2016 Hogan, K.A., Ó Cofaigh, C., Jennings, A.E., Dowdeswell, J.A., Hiemstra, J.F., Deglaciation of a major palaeo-ice stream in Disko Trough, West Greenland. *Quaternary Science Reviews* 147, 5-26. DOI: 10.1016/j.quascirev.2016.01.018
- 2016 Sheldon C, Jennings A, Andrews JT, Cofaigh CO, Hogan K, Dowdeswell JA, Seidenkrantz M-S. "Ice stream retreat following the LGM and onset of the west Greenland current in Uummannaq Trough, west Greenland." *Quaternary Science Reviews* 147 (September 01, 2016): 27-46. doi:[10.1016/j.quascirev.2016.01.019](http://dx.doi.org/10.1016/j.quascirev.2016.01.019)
- 2016 Cabedo-Sanz P, Belt ST, Jennings AE, Andrews JT, Geirsdottir A. "Variability in drift ice export from the Arctic Ocean to the North Icelandic Shelf over the last 8000 years: A multi-proxy evaluation." *QUATERNARY SCIENCE REVIEWS*. 146 (August 15, 2016): 99-115. doi:[10.1016/j.quascirev.2016.06.012](http://dx.doi.org/10.1016/j.quascirev.2016.06.012)
- 2016 Perner K, Jennings AE, Moros M, Andrews JT, Wacker L. "Interaction between warm Atlantic-sourced waters and the East Greenland Current in northern Denmark Strait (68°N) during the last 10 600 cal a BP." *Journal of Quaternary Science*. 31 (5) (May 2016): 472-483. doi:[10.1002/jqs.2872](http://dx.doi.org/10.1002/jqs.2872)
- 2016 Briner JP, McKay NP, Axford Y, Bennike O, Bradley RS, de Vernal A, Fisher D, Francus P, Frechette B, Gajewski K. "Holocene climate change in Arctic Canada and Greenland." *QUATERNARY SCIENCE REVIEWS*. 147 (September 01, 2016): 340-364. doi:[10.1016/j.quascirev.2016.02.010](http://dx.doi.org/10.1016/j.quascirev.2016.02.010)
- 2016 Moros, M., Lloyd, J.M., Perner, K., Krawczyk, D., Blanz, T., deVernal, A., Ouellet-bernier, M.-M., Kuijpers, A., Jennings, A.E., Witkowski, A., Schneider, R., Jansen, E. *Quaternary Science Reviews* 132, 146-160. Doi:10.1016/j.quascirev.2015.11.017
- 2015 Miettinen, A., Divine, D.V., Husum, K., Koç, N., Jennings, A.E. Exceptional ocean surface conditions on the SE Greenland shelf during the Medieval Climate Anomaly. *Paleoceanography* 30, 1657-1674. doi:[10.1002/2015PA002849](http://dx.doi.org/10.1002/2015PA002849)
- 2015 Pearce, C., Andrews, J.T., Bouloubassi, I., Hillaire-Marcel, C., Jennings, A.E., Olsen, J., Kuijpers, A., Seidenkrantz, M.-S. Heinrich 0 on the east Canadian margin: Source, distribution, and timing. *Paleoceanography* 30, 1613-1624. doi:[10.1002/2015PA002884](http://dx.doi.org/10.1002/2015PA002884)
- 2015 Andrews, J.T., Björk, A.A., Eberl, D.D., Jennings, A.E., VerPlanck, E.P. Significant differences in late Quaternary bedrock erosion and transport: East versus West Greenland ~70°N-evidence from the mineralogy of offshore glacial marine sediments. *Journal of Quaternary Science* 30, 452-463. Doi: 10.1002/jqs.2787
- 2015 Jennings, A., Andrews, J.T., Pearce, C., Wilson, L., Ólafsdóttir, S. Detrital carbonate peaks on the Labrador Shelf, a 13 to 7 cal ka BP template for freshwater forcing from the Hudson Strait outlet of the Laurentide Ice Sheet into the subpolar gyre. *Quaternary Science Reviews* 107, 62-80. doi:[10.1016/j.quascirev.2014.10.022](http://dx.doi.org/10.1016/j.quascirev.2014.10.022)
- 2014 Andrews, J.T. and Jennings, A.E. Multidecadal to millennial marine climate oscillations across the Denmark Strait (66°N) over the last 2000 cal yr BP. *Climate of the Past*, 10, 1-19. doi:10.5194/cp-10-325-2014
- 2014 Jennings, A., Thordarson, T., Zalzal, K., Stoner, J., Hayward C., Geirsdottir, A., Miller,

- G. in press. Holocene tephras from Iceland and Alaska in SE Greenland shelf sediments. In: Austin, W. E. N., Abbott, P. M., Davies, S. M., Pearce, N. J. G. & Wastegaard, S. (eds) Marine Tephrochronology. Geological Society, London, Special Publications, 398.
- 2014 Andrews, J. T., & Jennings, A. E. (2014). Multidecadal to millennial marine climate oscillations across the Denmark Strait (similar to 66 degrees N) over the last 2000 cal yr BP. *CLIMATE OF THE PAST*, 10(1), 325-343. doi:[10.5194/cp-10-325-2014](https://doi.org/10.5194/cp-10-325-2014)
- 2014 Jennings, A.E., Walton, M.E., Ó Cofaigh, C., Kilfeather, A.K., Ortiz, J.D., De Vernal, A., Dowdeswell, J.A., 2014. Paleoenvironments during Younger Dryas-Early Holocene retreat of the Greenland Ice Sheet from outer Disko Trough, central west Greenland. *Journal of Quaternary Science*. 29, 27-40. First published online 2013. doi:[10.1002/jqs.2652](https://doi.org/10.1002/jqs.2652)
- 2014 Andrews, J.T., Gibb, O.T., Jennings, A.E., Q, S., 2014. Variations in the provenance of sediment from ice sheets surrounding Baffin Bay during MIS 2 and 3 and export to the Labrador Sea: Site HU2008029-0008 Davis Strait. *Journal of Quaternary Science*. 29, 3-13. DOI: 10.1002/jqs.2643. doi:[10.1002/jqs.2643](https://doi.org/10.1002/jqs.2643)
- 2013 Ó Cofaigh, C., Dowdeswell, J.A. , Jennings, A.E. , Hogan, K.A. , Kilfeather, A., Hiemstra, J.F. , Noormets, R. , Evans, J. , McCarthy, D.J. , Andrews, J.T. , Lloyd J.M. , and Moros, M., 2013. An extensive and dynamic ice sheet on the West Greenland shelf during the last glacial cycle. *Geology* 41, 219-. Published online 30 November 2012; doi:[10.1130/G33759.1](https://doi.org/10.1130/G33759.1)
- 2013 Ó Cofaigh, C.O., Andrews, J.T., Jennings, A.E., Dowdeswell, J.A., Kilfeather, A.A., and Hogan, K.A., 2013. Glacimarine lithofacies, provenance, and depositional processes on a West Greenland trough-mouth fan. *Journal of Quaternary Science*, 28, 13-26. DOI: 10.1002/jqs.2569. Published online 2012.
- 2013 Andresen, C.S., Hansen, M.J., Seidenkrantz, M-S., Jennings, A.E., Knudsen, M.F., Nørgaard-Pedersen, N., Larsen, N.K., Kuijpers, A., Pearce, C., Mid- to late-Holocene oceanographic variability on the Southeast Greenland shelf. *The Holocene* 23: 167-178. DOI: 10.1177/0959683612460789
- 2012 Perner, K., Moros, M., Jennings, A.E., Lloyd, J.M., Knudsen, K.L., Holocene paleoceanographic development of West Greenland: implications from benthic foraminifera. *The Holocene*. doi:[10.1177/0959683612460785](https://doi.org/10.1177/0959683612460785)
- 2012 Quillmann, U., Marchitto, T.M., Jennings, A.E., Andrews, J.T., Friestad, B.F., Cooling and freshening at 8.2 ka on the NW Iceland Shelf recorded in paired  $\delta^{18}\text{O}$  and Mg/Ca measurements of the benthic foraminifer *Cibicides lobatulus*. *Quaternary Research* 78: 528-539.
- 2012 Andrews, J.T., Barber, D., Eberl, D., Jennings, A.E., MacLean, B., Kirby, M. Varying sediment sources (Hudson Strait, Cumberland Sound, Baffin Bay) to the NW Labrador Sea slope between and during Heinrich events 0 to 4. *Journal of Quaternary Science*. 27: 475-484. DOI: 10.1002/jqs.2535
- 2011 Jennings, A.E., Sheldon, C., Cronin, T.M., Francus, P.F., Stoner, J and Andrews, J.T. The Holocene History of Nares Strait: Transition from glacial bay to Arctic - Atlantic Throughflow. *Oceanography* 24(3): 26–41, <http://dx.doi.org/10.5670/oceanog.2011.52>.
- 2011 Jennings, A.E., Andrews, J.T., Wilson, L. Holocene environmental evolution of the SE Greenland Shelf North and South of the Denmark Strait: Irminger and East Greenland Current interactions. *Quaternary Science Reviews* 30, 980-998.



- 2010 Andrews, J.T., Jennings, A.E., Coleman, C.G., Eberl, D., Holocene variations in mineral and grain-size composition along the East Greenland glaciated margin (ca 67°-70°N): local versus long-distance sediment transport. Quaternary Science Reviews 29, 2619-2632.
- 2010 Ólafsdóttir, S., Jennings, A.E., Geirsdóttir, A.G., Andrews, J.T., Miller, G.H. Holocene Variability of the North Atlantic Irminger Current on the South- and Northwest Shelf of Iceland. Marine Micropaleontology 77: 101-118.
- 2010 Polyak, L., and 17 others including Jennings, A.E. History of Sea Ice in the Arctic. Quaternary Science Reviews 29: 1757-1778.
- 2010 Quillmann, U, Jennings A.E., and Andrews J.T. Reconstructing Holocene paleoclimate and paleoceanography in Ísafjarðardjúp, Northwest Iceland, from two fjord records overprinted by relative sea level and local hydrographic changes, Journal of Quaternary Science ISSN 0267-8179. DOI: 10.1002/jqs.1395.
- 2009 Andrews, J.T., Darby, D., Eberle, D., Jennings, A.E., Moros, M., Ogilvie, A. 2009. A robust, multi-site Holocene history of drift-ice off northern Iceland: Implications for North Atlantic climate The Holocene, 19: 71-77. DOI: 10.1177/0959683608098953
- 2008 Great-earthquake paleogeodesy and tsunamis of the past 2000 years at Alsea Bay, central Oregon coast, USA. Alan R. Nelson, Yuki Sawai, Anne E. Jennings, Lee-Ann Bradley, Linda Gerson, Brian L. Sherrod, Jennifer Sabeen, Benjamin P. Horton. Quaternary Science Reviews, 27: 747-768.
- 2008 Justwan, A., Koc, N., Jennings, A.E.. Evolution of the Irminger and East Icelandic current systems through the Holocene, revealed by diatom based sea surface temperature reconstructions. Quaternary Science Reviews 27, 1571-1582.
- 2008 Time-slice reconstructions of ocean circulation changes on the continental shelf in the Nordic and Barents Seas during the last 16,000 cal yr. B.P. 'Slubowska-Woldengen, M., Koç, N., Rasmussen, T.L., Klitgaard-Kristensen, D., Hald, M., Jennings, A.E. Quaternary Science Reviews 27, 1476-1492. doi:10.1016/j.quascirev.2008.04.015
- 2007 Stoner, J. S., A. Jennings, G. B. Kristjansdottir, G. Dunhill, J. T. Andrews and J. Hardardottir, A paleomagnetic approach toward refining Holocene radiocarbon based chronologies: Paleoceanographic records from North Iceland (MD99-2269) and East Greenland (MD99-2322) margins. Paleoceanography 22, PA1209, doi:10.1029/2006PA001285,2007.
- 2007 Geochemistry of Holocene cryptotephra from the North Iceland Shelf (MD99-2269): intercalibration with radiocarbon and palaeomagnetic chronostratigraphies. Kristjansdottir, G.B., Stoner, J.S., Jennings, A.E., Andrews, J.T. and Grönvold, K. The Holocene 17(2): 155-176.
- 2007 New spatial Mg/Ca-temperature calibrations for three Arctic, benthic foraminifera and reconstruction of north Iceland shelf temperature for the past 4000 years. Kristjansdottir, G.B., Lea, D.W., Jennings, A.E., Pak, D.K. and Belanger, C. Geochemistry Geophysics Geosystems, G<sup>3</sup> 8(3) doi:10.1029/2006GC001425
- 2006 Jennings, A.E. Hald, M., Smith, M., Andrews, J.T.. Freshwater forcing from the Greenland Ice Sheet during the Younger Dryas: evidence from southeastern Greenland shelf cores. Quaternary Science Reviews 25, 282-298.
- 2005 Glacial-marine or subglacial origin of diamicton units from the southwest and North

- Iceland shelf: implications for the glacial history of Iceland. Principato, S., Jennings, A.E., Kristjansdottir, G.B., Andrews, J.T., Journal of Sedimentary Research 75, 968-983.
- 2005 Temperature reconstructions for SW and N Iceland waters over the last 10,000 cal yr B.P. based on  $\delta^{18}\text{O}$  records from planktic and benthic foraminifera. Quaternary Science Reviews 24, 1723-1740.
- 2004 Modern foraminiferal faunas of the southwestern to northern Iceland shelf: oceanographic and environmental controls. Jennings, A.E., Weiner, N.J., Helgadottir, G. and Andrews, J.T., Journal of Foraminiferal Research 34, 180-207.
- 2004 Timing and mechanisms of surface and intermediate water circulation changes in the Nordic Seas over the last 10,000 Cal. Years: A view from the North Iceland shelf. J. Giraudeau, A.E. Jennings, and J.T. Andrews, Quaternary Science Reviews 23, 2127-2139.
- 2004 Funder, S., Jennings, A., Kelly, M. Middle and late Quaternary glacial limits in Greenland. In: J. Ehlers and P.L. Gibbard, eds., Quaternary Glaciations-Extent and Chronology, Part. II. Elsevier B.V., p. 425-430.
- 2004 Temperature Reconstructions for SW and N Iceland Waters over the last 10,000 cal yr B.P. based on  $\delta^{18}\text{O}$  Records from Planktic and Benthic Foraminifera. L.M. Smith, J.T. Andrews, Isla S. Castañeda, Greta B. Kristjansdottir, Anne E. Jennings, Á. Sveinbjörnsdóttir, Quaternary Science Reviews 19, 321-334.
- 2004 Nonuniform response of the major surface currents in the Nordic Seas to insolation forcing: Implications for the Holocene climate variability. Andersen, C., Koc, N., Jennings, A.E., and Andrews, J.T., Paleoceanography, 19.
- 2004 Holocene thermal maximum in the western Arctic (0-180°W). Kaufman, D.S., and 29 others, including Jennings, A.E., Quaternary Science Reviews, 23: 529-560.
- 2002 A mid-Holocene shift in arctic sea ice variability on the East Greenland shelf. A.E. Jennings, K.L. Knudsen, M. Hald, C.V. Hansen, and J.T. Andrews, The Holocene, 12: 49-58.
- 2002 Jennings, A.E., Grönvold, K., Hilberman, R., Smith, M. Hald, M., High-resolution study of Icelandic tephras in the Kangerlussuaq Trough, southeast Greenland, during the last deglaciation. Journal of Quaternary Science, 7: 747-757.
- 2002 Accumulation in East Greenland Fjords and on the continental shelves adjacent to the Denmark Strait over the last century based on 210 Pb geochronology. L.M. Smith, C. Alexander, and A.E. Jennings. Arctic, 55: 109-122.
- 2001 Jennings, A.E., Vilks, G., Deonarine, B., Schafer, C., Silis, A., and Weiner, N., Foraminiferal biostratigraphy and paleoceanography of Hudson Strait. In: MacLean, B. (Ed), Marine Geology of Hudson Strait and Ungava Bay, Eastern Arctic Canada: Late Quaternary Sediments, Depositional Environments, and Late Glacial-Deglacial History Derived from Marine and Terrestrial Studies, Geological Survey of Canada Bulletin 566, p. 127-146.
- 2001 Light  $^{13}\text{C}$  events during deglaciation of the East Greenland continental shelf attributed to methane release from gas hydrates. L.M. Smith, J.P. Sachs, A.E. Jennings, D.M. Anderson, and A. deVernal. Geophys. Res. Lett. 28: 2217-2220.
- 2001 Oceanographic change and terrestrial human impacts in a post AD 1400 sediment record from the southwest Iceland Shelf. A.E. Jennings, S. Hagen, J. Hardardottir, R. Stein, A.E.J. Ogilvie, and I. Jonsdottir. Climatic Change, 48: 83-100.

- 2000 Chronology and paleoenvironments during the late Weichselian deglaciation of the SW Iceland shelf. A.E. Jennings, J.P.M. Syvitski, L. Gerson, K. Grønvold, Á. Geirsdóttir, J. Hardóttir, J. Andrews, and S. Hagen. Boreas, 29: 167-183.
- 2000 An origin for laminated glacial marine sediments through sea-ice build up and suppressed iceberg rafting. J.A. Dowdeswell, R.J. Whittington, A.E. Jennings, J.T. Andrews, A. Mackensen, and P. Marienfeld. Sedimentology, 47: 557-576.
- 2001 North Atlantic Climate c. A.D. 1000: Millennial Reflections on the Viking Discoveries of Iceland, Greenland and North America. A.E.J. Ogilvie, L.K. Barlow, A.E. Jennings, 2000. Weather, 55: 34-45.
- 2000  $^{40}\text{Ar}/^{39}\text{Ar}$  and Pb-Pb study of individual hornblende and feldspar grains from southeastern Baffin Island glacial sediments: implications for the provenance of the Heinrich layers. Hemming, S.R., Gwiazda, R.H., Andrews, J.T., Broecker, W.S., Jennings, A.E., and Onstott, T.C. Canadian Journal of Earth Sciences 37: 879-890.
- 1999 Forcing of the cold event of 8,200 years ago by catastrophic drainage of Laurentide lakes. D.C. Barber, A. Dyke, C. Hillaire-Marcel, A.E. Jennings, J.T. Andrews, M.W. Kerwin, G. Bilodeau, R. McNeely, J. Southon, M.D. Morehead, and J.-M. Gagnon. Nature, 400, 344-348.
- 1999 High resolution seismic evidence for multiple glaciations across the Southwest Iceland shelf. J.P.M. Syvitski, A.E. Jennings and J.T. Andrews. Arctic, Antarctic and Alpine Research, 31, 50-57.
- 1999 Abrupt deglaciation events and Holocene palaeoceanography from high-resolution cores, Cartwright Saddle, Labrador shelf, Canada. J.T. Andrews, L. Keigwin, and A.E. Jennings. Journal of Quaternary Science 14, 383-397.
- 1999 Late Pleistocene-Holocene marine conditions in the Ross Sea, Antarctica: evidence from the diatom record. W.L. Cunningham, A. Leventer, J.T. Andrews, A.E. Jennings, and K. J. Licht. The Holocene 9-2, 129-139.
- 1999 Distinguishing subglacial till and glacial marine diamictos in the western Ross Sea, Antarctica: Implications for a last glacial maximum grounding line. GSA Bulletin 111, 91-103.
- 1999 Problems and possible solutions concerning radiocarbon dating of surface marine sediments, Ross Sea, Antarctica. J.T. Andrews, E.W. Domack, W.L. Cunningham, A. Leventer, K.J. Licht, A.J.T. Jull, D.J. DeMaster, and A.E. Jennings. Quaternary Research 52, 206-216.
- 1998 Marine evidence for the last glacial advance across eastern Hudson Strait, eastern Canadian Arctic. A.E. Jennings, W.F. Manley, B. MacLean, and J.T. Andrews. Journal of Quaternary Science 13, 501-514.
- 1998 Environmental conditions on the SW Iceland shelf over the last 500 years. A.E. Jennings, S. Hagen, A.E.J. Ogilvie, J. Hardóttir, and R. Stein. Fróðskaparrit 46, 315-316.
- 1998 Late Quaternary iceberg-rafted detritus events on the Denmark Strait-Southeast Greenland continental slope (ca. 65°N): related to North Atlantic Heinrich events? J.T. Andrews, T.A. Cooper, A.E. Jennings, A.B. Stein, and H. Erlenkeuser. Marine Geology 149, 211-228.
- 1998 Late Quaternary stratigraphy, chronology, and depositional processes on the slope of S.E. Baffin Island, detrital carbonate and Heinrich events: implications for onshore

- glacial history. J.T. Andrews, M. Kirby, A.E. Jennings and D.C. Barber. Géographie, physique et Quaternaire 52, 91-105.
- 1997 Arctic environmental change of the last four centuries. J. Overpeck, K. Hughen, and 16 others, incl. Jennings. Science 278: 1251-1256.
- 1997 Numerical modeling of late Glacial Laurentide advance of ice across Hudson Strait: Insights into terrestrial and marine geology, mass balance, and calving flux. W.T. Pfeffer, M. Dyurgerov, M. Kaplan, J. Dwyer, C. Sassolas, A. Jennings, B. Raup, and W. Manley. Paleoceanography 12, 97-110.
- 1997 Spatial and temporal patterns of iceberg rafting (IRD) along the East Greenland margin, ca. 68° N, over the last 14 cal.ka. J.T. Andrews, L.M. Smith, R. Preston, T. Cooper, and A.E. Jennings, Journal of Quaternary Science 12, 1-13.
- 1996 Holocene intertidal stratigraphy, microfossils, rapid submergence, and earthquake recurrence at Coos Bay, southern coastal Oregon, USA. A.R. Nelson, A.E. Jennings, and K. Kashima. Geological Society of America Bulletin 108: 141-154.
- 1996 Environmental change in eastern Greenland during the last 1300 Years: Evidence from foraminifera and lithofacies in Nansen Fjord, 68 °N. A.E. Jennings and N.J. Weiner. The Holocene 6: 179-191.
- 1996 Shelf erosion and glacial ice proximity in the Labrador Sea during and after Heinrich Events (H-3 or 4 to H-0) as shown by foraminifera. A.E. Jennings, K.A. Tedesco, J.T. Andrews, and M.E. Kirby, In: Andrews, J.T., Austin, W.E.N., Bergsten, H., and Jennings, A.E. (eds), 1996, Late Quaternary Palaeoceanography of the North Atlantic Margins, Geological Society Special Publication No. 111, pp. 29-49.
- 1996 Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. K.J. Licht, A.E. Jennings, J.T. Andrews, and K.M. Williams. Geology, 24: 223-226.
- 1995 Marsh foraminiferal assemblages in the Valdivia estuary, south-central Chile, relative to vascular plants and sea level. A.E. Jennings, A.R. Nelson, D.B. Scott, and Juan Carlos Aravena. Journal of Coastal Research 11: 107-123.
- 1994 Sediment thicknesses and Holocene glacial marine sedimentation rates in three East Greenland fjords (ca. 68°N). J.T. Andrews, J.D. Milliman, A.E. Jennings, N. Rynes, and J. Dwyer. The Journal of Geology 102: 669-683.
- 1994 Foraminiferal assemblages from the fjords and shelf of eastern Greenland. A.E. Jennings and G. Helgadottir. Journal of Foraminiferal Research 24: 123-144.
- 1993 The Quaternary history of Cumberland Sound, southeastern Baffin Island, Canada: The marine evidence. A.E. Jennings. Géographie physique et Quaternaire v. 47, p. 21-42.
- 1992 Thermoluminescence properties of a deglacial marine sequence, Cumberland Sound, Arctic Canada: Geochronologic and sedimentologic implications. A.E. Jennings and S.L. Forman. Marine Geology v. 103, p. 111-123.
- 1992 Foraminiferal assemblage zones in central Oregon salt marshes: relation to marsh floristic zones and sea level. A.E. Jennings and A.R. Nelson. Journal of Foraminiferal Research v. 22, p. 13-29.
- 1991 The surficial geology of the Canadian eastern Arctic and Polar continental shelves. J.T. Andrews, A.E. Jennings, B. MacLean, P.J. Mudie, D. Praeg and G. Vilks. Continental Shelf Research v. 11, p. 791-819.

### **Selected Abstracts and Presentations**

December 10, 2024. Jennings, A.E., Childress, L.B., Hatfield, R.G., Klotsko, S., Knutz, P.C., Reilly, B., BADEX Science Team and Expedition 400 Scientists. Greenland Ice Sheet-Ocean-Climate Interactions through Space and Time. Invited poster in PP23A-0539, Arctic Marine Processes and Ice Sheet–Ocean Interactions in the Cenozoic: Insights from Marine Sediment Records.

May 21, 2024. Jennings, A.E. Probing the origin(s) of BBDC events. Invited lecture. Department of Geoscience, Aarhus University.

March 14, 2024. Jennings, A.E., Jenner, K., Normandeau, A., Roth, W., Andrews, J.T., Kelleher, R., Reilly, B., BADEX Science Team. Probing the origin(s) of BBDC events. 52<sup>nd</sup> International Arctic Workshop, Program and Abstracts 2024. Dept of Earth, Geographic, and Climate Sciences, University of Massachusetts-Amherst, 210 pg.

December 11, 2023. Jennings, A.E., Jenner, K., Normandeau, A., Roth, W., Andrews, J.T., Reilly, B., Stelling, K., Monito, L., Walczak, M., BADEX Science Team. Ice Shelves and Ice Stream Retreat from LGM through Deglaciation in Northern Baffin Bay. Oral presentation in C14A: Archives and Observations from Subice Environments II Oral. AGU Fall Meeting, San Francisco.

December 12, 2023. Jennings, A.E., Knutz, P., Childress, L., Expedition 400 Scientists. Preliminary results of IODP Expedition 400 to Northwest Greenland. Invited talk in PP24A, Contributions of Scientific Ocean Drilling to Understanding Earth Systems Science and Earth Systems History at High Latitudes II Oral. AGU Fall Meeting, San Francisco.

December 7, 2022. Jennings, A.E., Keynote: IODP Expedition 400, NW Greenland Glaciated Margin: Science Objectives and Research Opportunities: INQUA-MARE, Arctic Realm, Pisa, Italy, Dec. 5-7, 2022. Hybrid meeting.

October 10, 2022. Andrews, J.T., Jennings, A.E., Piper, D.J., Miller, G.H., Hudson Strait Heinrich Events refute an open Hudson Bay during MIS3. Geological Society of America Annual Meeting, Oct. 9-12, Denver, CO.

October 11, 2022. Jennings, A.E., Arctic ice shelf sediment facies: Revelations and limitations. International Quaternary Webinar, 2022. Hosted by Prof. Raymond Bradley, Climate System Research Center, University of Massachusetts, Amherst.

June 20, 2022. Keynote: Arctic ice shelf sediment facies. 51<sup>st</sup> International Arctic Workshop, Svalbard. June 19-23, 2022.

December, 3, 2021. Jennings, A.E. Invited speaker: Deglaciation of the Nares Strait and Parry Channel - a tale of two Arctic to Atlantic gateways. Earth Talks Lecture Series, organized by GEOCENTER Danmark. GEUS. Online.

May 2021. Jennings A.E., Kelleher R., Brooks N., Andrews J.T., Feng S., Brookins S., Bennett R., Jenner K., Woelders L. Stratigraphic revelations of the onset of Arctic/Atlantic throughflow

in the Arctic Island Channels. PalaeoArc – 2021. 2nd International Conference on ‘Processes and Palaeo-environmental changes in the Arctic: from past to present’. Abstract congresso PALAEOARC 2021.

April 2021. Harning, D., Holman, B., Woelders, L., Jennings, A., Sepúlveda, J. Biomarker characterization of the North Water Polynya, Baffin Bay: Implications for local sea ice and temperature proxies. 50<sup>th</sup> Annual International Arctic Workshop.

April 2021. Kelleher, R.V., Jennings, A., Brooks, N., Feng, S., Andrews, J.T., Brookins, S., Woelders, L. Foraminiferal stratigraphy and lithofacies reveal the timing and environments of deglaciation and onset of Arctic/Atlantic throughflow in the Arctic Island Channels. 50<sup>th</sup> Annual International Arctic Workshop.

December 2020. Jennings, A.E., Brooks, N., Kelleher, R., Feng, S., Andrews, J.T., Jahn, A., Marchitto, T., Sepúlveda, J., Lecavalier, B. PP029-0015, Timing and Paleooceanographic Impacts of Deglaciation of the Arctic Island Channels between the Arctic Ocean and Baffin Bay during the Holocene. Online poster in PP029 – Biological and Physical processes in High-Latitude Environments: Impacts on the Global Carbon Cycle and climate System Through Time II Posters.

October 2020. Kelleher, R., Jennings, A.E., Brooks, N., Feng, S., Andrews, J.T., Brookins, S., Marchitto, T., Woelders, L., Bennett, R., St. Onge, G., de Vernal, A., Jenner, K. Pienkowski, A. and Campbell, C. Foraminiferal Stratigraphy and Lithofacies reveal the timing and environments of deglaciation and onset of Arctic/Atlantic throughflow in the Arctic Island Channels. Geological Society of America Abstracts with Programs. Vol 52, No. 6, 2020 doi: 10.1130/abs/2020AM-357960

September 2019. Jennings, A.E., Reilly, B., Andrews, J.T., Hogan, K., Walczak, M., Stoner, J.S., Mix, A., Jakobsson, M. Invited Keynote Talk. Modern ice shelf facies and Early Holocene counterparts in Petermann Fjord and Northern Nares Strait. 34<sup>th</sup> International Meeting of Sedimentology, 10-13 September, Sapienza University, Rome, Italy.

April 2019. Jennings, A.E., Reilly, B., Andrews, J.T., Hogan, K., Walczak M., Stoner, J., Mix, A., Jakobsson, M., 2019. Sedimentological and Faunal Evidence of Ice Shelves during the Early Holocene Deglaciation of Nares Strait. 49<sup>th</sup> International Arctic Workshop, 3-5 April 2019. Stockholm, Sweden.

December, 2018. Jennings, A., Reilly, B., Andrews, J., Walczak, M., Hogan, K., Stoner, J., Mix, A., Jakobsson, M. (2018). Sediment and Faunal Evidence of Ice Shelves and Their Disintegration during the Early Holocene Deglaciation of Nares Strait. AGU Fall Meeting 2018, PP41B-02, Thursday, 13 December 2018. Washington, DC.

September, 2018. Jennings, A.E., Reilly, B., Andrews, J.T., Stoner, J., Walczak, M., Mix, A., Jakobsson, M. (2018). Ice Shelf Facies: Modern and Paleo examples from NW Greenland. MagellanPlus Workshop on Greenland Ice Sheet evolution. Copenhagen, Denmark.

April 2018. Jennings, A.E., Reilly, B.T., Andrews, J.T., Bailey, E., Mix, A., Stoner, J., Walczak, M., Jakobsson, M., Dyke, L., 2018a. New insights into deglacial and Holocene ice-shelf and ice tongue history in NW Greenland (Keynote speech at 6th International Conference on 'Paleo-Arctic Spatial and Temporal (PAST) Gateways' 16-20 April 2018, Durham University, Durham UK.

April 2018. Jennings, A.E., Reilly, B.T., Andrews, J.T., Bailey, E., Mix, A., Stoner, J., Walczak, M., Dyke, L., 2018c. Holocene paleoceanographic development in the Petermann Fjord and growth of the Petermann Ice Tongue based on analysis of lithofacies, grain size properties and foraminifers in OD1507 cores. Talk presented at the 48<sup>th</sup> International Arctic Workshop, Boulder CO, 5-6 April, 2018.

February 2018. Jennings, A.E., Reilly, B., Andrews, J., Befus, B., Bailey, E., Oliver, B., Mix, A., Stoner, J., Walczak, M., Dyke, L., Jakobsson, M., 2018b. Holocene Paleoceanographic Development and Growth of the Petermann Ice Tongue Based on Analysis of Lithofacies, Grain Size Distributions and Foraminifers in OD1507 Cores from Petermann Fjord , PC34A-0623 presented at 2018 Ocean Sciences Meeting, Portland, OR, 12-16 Feb.

October 2017. Jennings, A.E. ANATILS Workshop, Boulder CO. Presentation on Bottom Water and Sea Surface Temperature reconstructions based on Foraminifera in core MD99-2269, northern Iceland shelf.

October 2017. GIS Stability Workshop, Buffalo New York. History of Greenland Ice Sheet Stability from the NW Greenland Margin. Jennings, A.E. and Knutz, P.

March 2017. Jennings, A.E., Mix, A., Walczak, M., Reilly, B., Stoner, J., Cheseby, M., 2017. Modern foraminiferal assemblages in the Petermann Fjord, NW Greenland. Program and Abstracts of the 47<sup>th</sup> Annual International Arctic Workshop, March 23-25, Buffalo, New York., p. 95.

August 2016. Lecturer, Atlantic Climate Dynamics (ACDC) summer course, Newfoundland, Canada. Three lectures: 1. Sub ice shelf environments: Examples from modern Petermann Ice Shelf and testing of LGM Baffin Bay ice shelf and 2. Detrital carbonate events as proxies of freshwater flux from high latitude North American ice sheets to the North Atlantic: phasing, timing, relation to glacial history. 3. Ice sheet-ocean interactions during GIS deglaciation.

April 2016. Distinguished International Visitor at Durham University, Durham, UK. Two lectures and a workshop presentation entitled: 'Ocean forcing of ice sheet retreat in West Greenland from Last Glacial Maximum through deglaciation'; 'First Results of the 2015 icebreaker 'Oden' survey of the Petermann Glacier and ice shelf system, Northwest Greenland' and 'Retreat of the Greenland and Inuitian ice sheets from Southern and Northern Nares Strait'.

April, 2016. Jennings, A.E. Andrews JT, O'Cofaigh C, St. Onge G, Belt S, Cabedo-Sanz P. "Was there a Baffin Bay Ice Shelf in the interval of LGM and HS1?." 46th International Arctic Workshop (46th International Arctic Workshop, April 02, 2016-April 03, 2016), April 03, 2016

April, 2016. Oliver B, Jennings AE, Andrews JT. "Retreat of the Smith Sound Ice Stream in the Early Holocene." 46th International Arctic Workshop (46th International Arctic Workshop, April 02, 2016-April 03, 2016), April 02, 2016

Sept. 28, 2015. INSTAAR Noon Seminar. Jennings, speaker. "First results of 2015 Icebreaker Oden Expedition to Petermann Ice Shelf, Northwest Greenland.

Dec. 18, 2015. AGU Fall Meeting. PP51C-Feedbacks on Ice-Sheet Growth and Decay during the Last Glacial Cycle 1-Posters. Jennings, A.E., Bailey, E., Oliver, B., Andrews, J.T., Prins, M., Troelstra, S., Stoner, J., Reilly, B., Daview-Walczak, M., Mix, A. Retreat of the coalescent Greenland and Inuitian ice sheets from Nares Strait. PP51C-2305.

Dec. 18, 2014. AGU Fall Meeting. Observations and Dynamics of Deglaciations I. Jennings, A.E., Andrews, J.T., Ó Cofaigh, C., St-Onge, G., Belt, S., Cabedo-Sanz, P. Paleooceanography and Ice Sheet-Ocean Interactions on the Central West Greenland Margin, LGM through Deglaciation, PP43F-05.

Dec. 17, 2015. AGU Fall Meeting. PP42B-The Role of Meltwater in Abrupt Climate Change: from the Arctic to Antarctic 1, invited talk. Jennings, A.E., Pearce, C., Andrews, J.T., Hillaire-Marcel, C., Seidenkrantz, M-S, Lewis, M. Early Holocene Meltwater Routing in the Labrador Sea. PP42B-01

Nov. 4, 2015. GSA Annual Meeting. T191. Reconstructing Arctic Glaciers and Ice Sheets. Jennings, A.E., Andrews, J.T., Oliver, B., Bailey, E. Retreat of the Greenland and Inuitian ice sheets from the southern and northern ends of Nares Strait. GSA Abstracts with Programs Vol. 47, No. 7.

March 15, 2014. 44<sup>th</sup> International Arctic Workshop. Jennings, A.E., Andrews, J.T., Pearce, C. A stratigraphic approach to calibrate the timing of ice discharge events in Hudson Strait and Hudson Bay and to develop a template for Freshwater Forcing from the Hudson Strait Outlet into the Subpolar Gyre from 13-7 cal ka BP. 44<sup>th</sup> International Arctic Workshop Abstracts with Program.

May 22 and 23, 2014. MOCA Joint Model-data workshop for the Late Pleistocene evolution of the Greenland and Antarctic ice sheets. Jennings, A.E. Greenland marine records and review of offshore Greenland Ice Sheet margins around Greenland, LGM to present, and near and far-field marine records: issues, and uncertainties. LGGE, Grenoble, France, May 22nd-24th, 2014

Oct. 27, 2013. Geological Society of America. Ice rafting events off central west Greenland: A record of ice sheet retreat from northern Baffin Bay? Jennings, A.E., Kelly, J., Shreve, B., Reed, M., and Andrews. GSA Abstracts with Programs Vol. 45, No. 7

March 11-13, 2013. 43rd International Arctic Workshop. The Role of Ocean Warming in Ice Sheet-Ocean Interactions in Eastern Baffin Bay from LGM through Deglaciation. Amherst, Mass.



June 3, 2013. The Role of Ocean Warming in Central West Greenland Ice Stream Retreat: LGM through Deglaciation. U.S. CLIVAR Working Group on Greenland Ice Sheet Ocean interactions (GRISO) Meeting, Beverly, Mass.

March 16-17, 2013. WIPS, Western Interior Paleontological Society Founders Symposium 2013.. Colorado School of Mines, Golden CO. Jennings, A.E., invited speaker. The Role of 'Ocean Warming' in Greenland Ice Sheet History, invited speaker.

Dec. 3-7 2012. AGU Fall Meeting. Ice sheet-ocean interactions on the central West Greenland margin during the Last Deglaciation and the early Holocene.

March 7-9 2012. 42<sup>nd</sup> International Arctic Workshop. Two-Step deglaciation of the Umanak Trough, West Greenland.

Dec. 3-4, 2011. NSF Workshop: Interdisciplinary Approaches to Understanding Ocean/ Ice-Shelf/ Ice-Sheet Interactions San Francisco. Speaker.

Nov. 7-9, 2011. The DEGREE Project: DEglaciated GREenland. Assessing the history of the Greenland Ice Sheet through Ocean Drilling. Oregon State University, Corvallis. Speaker. DEglaciated GREenland (<http://geoscience.wisc.edu/geoscience/research/degree-project/>)

August 2, 2011. Greenland Ice Sheet retreat from the Central West Greenland shelf during the last deglaciation and early Holocene. University of Aarhus, invited speaker.

April 1, 2011. Detrital Carbonate Events on the Labrador Shelf, a 13 to 7 kyr Template for Freshwater Forcing From the Laurentide Ice Sheet. Invited Speaker, University of Alberta.

May 13-14, 2010. American Polar Society Meeting. Speaker. University of Colorado. Boulder.

Oct. 12-13, 2009. NSF VAST Project Meeting. Speaker. Univ. of Massachusetts, Amherst.

21-24 April, 2009. 39th Arctic Workshop. Speaker. Jennings, A.E., Sheldon, C., and Andrews, J.T., 2009. Holocene paleoceanography of Hall Basin, Northern Nares Strait: Preliminary results from HLY03-05GC. Lewiston, Maine.

6 March, 2009. Invited Speaker: Beyond Kyoto: Addressing the Challenges of Climate Change. The Case for a Middle Holocene Climatic Optimum around Greenland, 5-7 May, 2009.

4 March, 2009. Invited lecture, Univ. of Bergen, Norway. Holocene Climate Evolution in the Denmark Strait: Links to Laurentide Ice Sheet Deglaciation.

December 15, 2008. Presenter, Fall AGU Meeting. 'Long-term changes in the behaviours of Jakobshavns Isbrae, West Greenland during the Late Quaternary-Holocene. O'Cofaigh, C., Jennings, A.E., Moros, M., and 5 others. San Francisco, CA.

December 18, 2008. Speaker, Fall AGU Meeting. ‘Detrital Carbonate Events on the Labrador Shelf, a 13 to 7 kyr template for freshwater forcing from the Laurentide Ice Sheet. Jennings, A.E. and Andrews, J.T., San Francisco, CA.

October 30-31, 2008. Speaker on ‘marine tephra layers offshore Greenland’ at NSF, VAST project meeting in Edinburgh, Scotland.

May 2-5, 2007. Speaker. ‘Holocene paleoceanographic Transitions in the Denmark Strait. Jennings, A.E. 37<sup>th</sup> International Arctic Workshop, Skaftafell, Iceland.

October 28-31, 2007. Presenter. Timing and sources of abrupt glacial events on the Labrador Shelf. Jennings, A.E., Freeman, W., Andrews, J.T., LaJeunesse, P., and St-Onge, G., Geological Society of America Fall Meeting, Denver, CO 2007.

November 12-14 2007. Invited speaker: Holocene environmental evolution of the Denmark Strait: Linkages between Irminger Current, DSOW formation and abrupt glacial events in Hudson Strait. Workshop in Arctic Natural Climate Change, Tromso, Norway.

March 16-18, 2006. Speaker. ‘Holocene paleotemperature estimates of Atlantic Water in the Irminger Current. Jennings, A.E., Olafsdottir, S., Woody, K.M., Andrews, J.T., 36<sup>th</sup> International Arctic Workshop, Boulder, CO.

April 29-30, 2006. Icelandic tephras in marine cores from the shelves adjacent to Denmark Strait. Presentation given at ‘Volcanoes in the Arctic System’, a planning meeting held in Reykjavik, Iceland.

December, 2005. Speaker, Fall AGU Meeting. ‘Holocene paleoceanography of the Southeast Greenland Shelf’. Jennings, A.E., Andrews, J.T., Woody, K., Anderson, D.M., and Stoner, J.S., San Francisco, CA.

March 9-12, 2005. Presenter. Paleotemperature reconstructions from benthic foraminiferal assemblages in the Denmark Strait region: Application of transfer functions in Late Glacial and Holocene shelf sediments. 35<sup>th</sup> International Arctic Workshop, Edmonton, Alberta, Canada.

May 17, 2004. Speaker, Spring AGU meeting, Montreal, Canada. ‘Younger Dryas meltwater from the Greenland Ice Sheet: Evidence from Southeast Greenland margin sediment cores’.

May 18, 2004. Invited speaker, GEOTOP Workshop, Revisiting the 8.2 ka-event and its impact (?) on the THC. Montreal, Canada.

### **Non Peer Reviewed Reports and Papers**

1995 Benthic foraminiferal assemblages from the western Ross Sea: ca. 30 ka to present. A.E. Jennings, J. Xiao, K.J. Licht, and J.T. Andrews. Antarctic Journal of the United States. 1995 Review Issue.

- 1996 Radiocarbon Date List VIII: Eastern Canadian Arctic, Labrador, Northern Quebec, East Greenland shelf, Iceland shelf, and Antarctica. W.F. Manley and A.E. Jennings (compilers), INSTAAR Occasional Paper 50, University of Colorado, 163 pp.