

Scott E Ishman, PhD

Kansas Geological Survey
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EDUCATIONAL BACKGROUND

1990 PhD Geology The Ohio State University, Columbus, OH
Advisor: Peter-N. Webb
1985 MS Geology The Ohio State University, Columbus, OH
Advisor: Peter-N. Webb
1982 BS Geology Indiana University of Pennsylvania, Indiana, PA

PROFESSIONAL EXPERIENCE

Kansas Geological Survey – Lawrence, KS

2021 – Present

7/21 to Present **Associate Director and Senior Scientist**

Associate Director, Research and Division of Geohydrology and Geohealth responsibilities: Identify new and innovative research trends and opportunities aligned with the KGS mission. Provide professional development mentoring and support for KGS Assistant- and Associate-rank scientific and research staff. Administration and supervision of the Division of Geohydrology and Geohealth scientist and staff. Lead an externally funded research program relevant to the KGS mission. Represent the KGS as assigned by the Director.

KGS Accomplishments

- Leading the development of the Kansas Water Quality Monitoring Program.
- Leading the development of the Kansas Geohealth Program
- Led submission of a \$4M NSF EPSCoR proposal.
- Created partnerships with the Kansas Farm Bureau and Ducks Unlimited.
- Delivered professional development workshops for assistant and associate scientific research staff.

Southern Illinois University Carbondale - Carbondale, IL

1999 - 2021

<i>6/20 to 7/21</i>	Interim Dean	<i>College of Agricultural, Life, and Physical Sciences</i>
<i>7/17 to 6/20</i>	Interim Dean	<i>College of Science</i>
<i>1/14 to 7/17</i>	Associate Dean	<i>College of Science</i>
<i>8/09 to 7/21</i>	Professor	<i>Department of Geology</i>
<i>8/03 to 8/09</i>	Associate Professor	<i>Department of Geology</i>
<i>8/99 to 8/03</i>	Assistant Professor	<i>Department of Geology</i>

Interim Dean and Associate Dean responsibilities: Academic, personnel and research matters of the College of Science/Agricultural, Life and Physical Sciences comprised of approximately 1900 students, including 1470 undergraduate and 412 graduate students, 117 faculty and 64 full time staff. Annual Promotion and Tenure evaluations for the college. Annual budgeting of the college with an approximate annual budget of \$13M.

Recruitment and retention. Represent the college at events throughout the state. Fund raising. Undergraduate Externship Coordinator. College of Science Scholarship Coordinator. College space management and assessment. Manage the annual college program/catalog changes.

SIUC Accomplishments

- Facilitated the acquisition of a John Deere lease agreement for University Farms valued at \$2.4M.
- Facilitated the merger of the Colleges of Agricultural Sciences and Science into the new College of Agricultural, Life and Physical Sciences.
- SIU-State Regional Economic Development Task Force.
- Coordinated the positioning of science programs in the university reorganization structure.
- Led a faculty contingent to Arizona State University to explore institutional reorganization.
- Established the College of Science Diversity and Inclusion Council.
- Represented the College of Science in the SMASH Illinois initiative to provide students of color with the skills necessary to succeed in the STEM workforce.
- Co-organized seminar exchange between Harris-Stowe University and SIUC.
- Co-led an initiative to increase alumni engagement through active participation in academic programs.
- Assisted in fundraising activities resulting in a little over \$1M in donations.
- Created the positions of Assistant Dean for Recruitment and Retention, and Recruitment and Retention Specialist in the Dean's Office of the College of Science.
- Coordinated the Eclipse 2017 regional educational outreach with Regional Offices of Education, community and civic organizations.
- Developed and delivered a workshop on solar eclipse education and safety for the Boys and Girls Club of Carbondale.
- Increased student participation in the SIUC Externship Program by ~285%.
- Founding Advisory Board Member of Imaging Geographies, a program that integrated the sciences, arts and humanities into campus and community programming (<http://sustainability.siu.edu/green-fee/campus-sustainability-projects/imagining-geographies.php>).
- Revision of the Graduate School Operating Paper.
- Assisted in the creation of the Ph.D. Program in Geosciences.
- Advised on the design and space utilization of the McLafferty Annex Research Facility.
- Advised on the space utilization for the Department of Computer Science relocation.
- Streamlined the administration of college scholarships.
- Established the first Science Honors Study Abroad course.
- Established the first Science Lab Honors course.
- NSF Cruise Chief Scientist
- Staff Scientist – NSF
- Staff Scientist – IODP

U.S. Geological Survey - Reston, VA

1991-1999

6/91 to 8/99

Research Geologist *Division of Geologic Mapping*

As a Research Geologist for the U.S. Geological Survey my responsibilities included: Develop and execute research programs of societal relevance. Manage a research program with a staff of 4 researchers and 5 technicians. Collaborating with universities, and federal, state and local agencies. Public and educational outreach.

USGS Accomplishments

- Project Chief for the Biscayne Bay Ecosystem History Project that resulted in identifying target conditions for Everglades/Biscayne Bay restoration efforts.
- Established a recurring monitoring program with the Miami-Dade County Department of Environmental Resources Management.

- Organized and led a 2-day workshop on Pliocene High-Latitude Climate Records that included over 24 climate scientists from universities and federal agencies.

TEACHING EXPERIENCE

Teaching Interests and Specialties: Invertebrate Paleontology, Paleoecology, Micropaleontology, Oceanography, Dinosaurs

Graduate Faculty Status: Direct Dissertation Graduate Faculty

Other:

Courses taught at Southern Illinois University: Geology 425, Invertebrate Paleontology and Paleoecology; Geology 128, Dinosaurs and the Age of Reptiles; Geology 327I, The World's Oceans; Geology 527, Micropaleontology; Geology 428, Paleoecology and Depositional Environments; Geology 591, Geology of South Florida; University Honors 351S, The Earth Around You; and Environmental Resources and Policy 500.

Courses taught at George Mason University: Introductory Physical Geology Laboratory; Introductory Historical Geology Laboratory.

Courses taught at Northern Virginia Community College: Historical Geology; Physical Geology.

Courses taught at Otterbein College: Historical Geology and Geology of the United States.

Course taught at The Ohio State University: Historical Geology.

INSTITUTIONAL SERVICE

KGS/KU Committees:

KU Safe and Inclusive Fieldwork Task Force
KGS Senior Administration Committee
KGS Space Committee
Kansas Geological Survey Advisory Committee
Hydrogen Hub Project Development Committee

SIUC University Committees:

Chancellor's Leadership Council 2020
Chancellor's Planning and Budget Advisory Council 2020
Chair – College of Engineering Dean Search Committee 2020
Higher Learning Commission Re-accreditation sub-Committee Member 2017-2020
Innovation Fellows Faculty Champion 2019-2020
Administrative Bargaining Team Member for Graduate Students United Contract 2014
SIUC Solar Eclipse Steering Committee; Co-chair 2015-2020
College of Science Externship Coordinator 2013-2016
College of Science Scholarship Coordinator 2013-2016
McLafferty Annex Oversight Committee 2013-2014
McLafferty Annex Advisory Committee 2012
Interdisciplinary Research Enhancement Task Force 2012
Graduate Council; Chair 2011-2012
Graduate Council; Vice-Chair 2010
Graduate Council; Chair of New Programs Committee 2009
Chancellor's Planning and Budget Advisory Council 2011-2012
Program Review Overview Committee 2011-2012
Imagining Geographies Advisory Committee 2011-2014
Commencement Task Force 2011
Doctoral and Morris Fellowship Selection Committee
College of Science Dean Search Committee Member

Departmental Committees:

Graduate Coordinator, Department of Geology 2002-2010
Speakers Committee Chair 2002-2009
Curriculum Committee 2002-2009
Search Committee Chair, Isotope Geochemist 2005-2006
Search Committee Chair, Isotope Geochemist 2004-2005
Search Committee, Organic Geochemist 2002-2003
Search Committee, Structural Geologist/Remote Sensing 2001-2002
Library Committee 1999-2003
Long Range Planning Committee 1999-2003

Student Committees:

PhD 3 (Director)
MS 16 (Director)
Honors 2 (Director)

PROFESSIONAL MEMBERSHIP, SERVICE and CONTRIBUTIONS

Membership and Service in Professional Associations:

Cushman Foundation for Foraminiferal Research
President 2024
President-elect 2023
Board of Directors, Director 2015-Present
Member 2000-Present
Geological Society of America
Member 2000-Present
GSA Connects 2022 Technical Session Co-Chair
Society for Sedimentary Geology
Member 2013-Present
North American Micropaleontological Society
Member 2013-Present
President 2014
Sigma Xi
Member 1999-2012
President of SIUC Chapter 2007-2008
Paleontological Society
Member 2002-2007
Nominations Committee Chairperson 2005
International Symposium on Foraminifera (FORAMS) 2014 Steering Committee Member
Field Stations and Marine Laboratories Emerging Initiatives Conference, Colorado Springs, CO 2011
Antarctic Marine Geology and Geophysics Vessel Planning Workshop, Washington, DC 2002

Continuing Education Short Courses:

Instructor in Workshop on Antarctic Glacial Marine and Biogenic Sedimentation, 42nd Annual Meeting of the Southeastern Section of the Geological Society of America, Tallahassee, FL.

Consultantships/Advisory Boards:

Advisory Board Member, Kansas Alliance for Wetlands and Streams
Scientific Advisory Committee Member, Fundación Centro de Estudios del Cuaternario (CEQUA), Punta Arenas, Chile (2009).
Advisor to the Center for Quaternary Research, Magallanes University, Punta Arenas, Chile (2003-2008).

Paper and Proposal Reviews:

Reviewer *National Science Foundation*
Reviewer *Marsden Grants*
Reviewer *Geology*
Reviewer *Geological Society of America Bulletin*
Reviewer *Quaternary Science Reviews*
Reviewer *Palaeogeography, Palaeoclimatology, Palaeoecology*
Reviewer *Journal of Foraminiferal Research*
Reviewer *Marine Micropaleontology*
Reviewer *Antarctic Science*
Reviewer *Estuarine, Coastal and Shelf Science*

RESEARCH

Research Interests and Specialties:

Benthic Foraminiferal ecology and paleoecology
Antarctic Holocene paleoclimate and paleoceanography
Cenozoic sea level, paleoclimate and paleoceanography
Environmental and paleoenvironmental assessment of estuarine ecosystems

Current Research Projects:

Holocene paleoclimatic and paleoceanographic record from the Antarctic Peninsula region, Antarctica.
Neogene Antarctic ice volume and sea level.
Foraminifera of the midcontinent Carboniferous.

Research Grants Received:

Geologic Mapping in Kansas for FY22. U.S. Geological Survey STATEMAP Program, \$599,195, FY2022

Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, a Multidisciplinary Approach - Marine and Quaternary Geosciences. National Science Foundation (OPP-732554), \$439,490.00, 10/01/2007-8/31/2014.

Reconstructing Miocene glaciomarine environments of SMS using foraminifera. University of Nebraska/National Science Foundation, \$78,930.00; 6/01/08-3/01/11.

Collaborative Research: Testing the Impact of Seasonality on Benthic Foraminifers as Paleoenvironmental Proxies. National Science Foundation (OPP-0635531), \$85,369.00, 6/25/2007-6/24/2009.

Using Foraminifera to Resolve the Neogene Ice Sheet, Glacio-eustatic, & Tectonic History of Southern McMurdo Sound. University of Nebraska/National Science Foundation (ANT-0342484), \$49,713.00, 6/01/07-5/31/08.

U.S.-Chile Program Planning Visit: Neogene Climate-driven Changes in the Terrestrial and Marine Paleoenvironments of Western South America, National Science Foundation, \$19,991; 11/01/05-12/31/06. (with Ken Anderson)

Paleohistory of the Larsen Ice Shelf: Phase II: National Science Foundation, \$185,696; 04/15/04-03/31/07.

Ecosystem History of Biscayne Bay: U.S. Geological Survey, \$24,547; 10/01/03-9/30/04.

U.S.-Chile Cooperative Research Proposal on the Cenozoic paleoceanographic and paleoclimatic evolution of northern and central Chile: National Science Foundation (INT-0203555) \$49,967; 08/01/02-07/31/05.

Origin of salinity changes in Biscayne Bay: U.S. Geological Survey, \$24,500; 05/10/02-03/31/03.

Collaborative Research: Larsen Ice Shelf-A: A model for Antarctic ice shelf-ocean dynamics: National Science Foundation (OPP-0003633) \$85,976; 04/01/01-03/31/03.

U.S.-Chile Program Planning Visit: Research on Late Cenozoic evolution of northern Chile: National Science Foundation (INT-0119298) \$5519; 6/15/01-5/31/02.

Foraminifer paleoecology of Florida and Biscayne Bays: U.S. Geological Survey, \$24,000.

Impact of extreme drought conditions on the Chesapeake Bay estuarine ecosystem: ORDA, \$3000.

Holocene Paleoenvironmental change along the Antarctic Peninsula: A Test of the Solar/Bi-Polar Signal: National Science Foundation (OPP-9615669) \$27,000.00, January 1997 to March 1999.

Late Quaternary paleoclimatic history of southern Chile: Evidence from the marine record: 1992-1994, National Science Foundation (OPP-9496329), \$229,069.00, May 1992 to May 1994.

Quaternary climatic record from the Antarctic Peninsula region, Antarctica: National Science Foundation (DPP-8917200), \$141,720.00, January 1990-December 1991.

Honors and Awards:

SIUC College of Science Faculty Undergraduate Mentor Excellence Award 2016
Sigma Xi SIUC Chapter Outstanding Mentorship of Undergraduate Research 2007
Shell Doctoral Fellowship: \$10,500.00, 1988-1989.
ARCO Travel Fund: \$250.00, 1987.
Sigma Xi Grant-in-Aid: \$650.00, 1986.

BIBLIOGRAPHY

Peer Reviewed Papers:

Ortega-Ariza, D., Franseen, E.K., BouDagher-Fadel, M.K., Khameiss, B., **Ishman, S.**, (2023) Chapter Five - Identifying and characterizing Miocene tropical transitional carbonate systems (TTCS) in the Caribbean: The significance of coral and large benthic foraminifera classification, Editor(s): Michael Montenari, *Stratigraphy & Timescales*, Academic Press, Volume 8, 189-235, ISSN 2468-5178, ISBN 9780323992428, <https://doi.org/10.1016/bs.sats.2023.08.008>.

Khameiss, B., **Ishman, S.**, Ortega-Ariza, D., Torres-Zamora, A., Franseen, E.K., (2023) Chapter Six - The importance of foraminifera in providing paleoecologic and biostratigraphic information for a Miocene tropical carbonate system: Cicuco Field, NW Colombia, Editor(s): Michael Montenari, *Stratigraphy & Timescales*, Academic Press, Volume 8, 237-263, ISSN 2468-5178, ISBN 9780323992428, <https://doi.org/10.1016/bs.sats.2023.08.008>.

Ingels, J., Aronson, R.B., Smith, C.R., Baco, A., Bik, H.M., Blake, J.A., Brandt, A., Cape, M., Demaster, D., Dolan, E., Domack, E., Fire, S., Geisz, H., Gigliotti, M., Griffiths, H., Halanych, K.M., Havermans, C., Huettmann, F., **Ishman, S.**, Kranz, S.A., Leventer, A., Mahon, A.R., McClintock, J., McCormick, M.L., Mitchell, B.G., Murray, A.E., Peck, L., Rogers, A., Shoplock, B., Smith, K.E., Steffel, B., Stukel, M.R., Sweetman, A.K., Taylor, M., Thurber, A.R., Truffer, M., Putte, A., Vanreusel, A., and Zamora-Duran, M.A. (2020) Antarctic ecosystem responses following ice-shelf collapse and iceberg calving: Science review and future research. *WIREs Climate Change*. <https://doi.org/10.1002/wcc.682>

Wellner, J.S., Scambos, T., Domack, E.W., Vernet, M., Leventer, A., Balco, G., Brachfeld, S., Cape, M.R., Huber, B., **Ishman, S.**, McCormick, M.L., Mosley-Thompson, E., Pettit, E.C., Smith, C.R., Truffer, M., Van Dover, C., and Yoo, Kyu-Cheul. (2019) The Larsen Ice Shelf System, Antarctica (LARISSA): Polar Systems Bound Together, Changing Fast, *GSA Today*, v. 29, <https://doi.org/10.1130/GSATG382A.1>.

Kyrmanidou, A., Vadman, K.J., **Ishman, S.E.**, Leventer, A., Brachfeld, S., Domack, E.W., and Wellner, J.S. (2018) Late Holocene oceanographic and climatic variability recorded by the Perseverance Drift, northwestern Weddell Sea, based on benthic foraminifera and diatoms, *Marine Micropaleontology*, ISSN 0377-8398, <https://doi.org/10.1016/j.marmicro.2018.03.001>.

Levy, R., Harwood, D., Florindo, F., Sangiorgi, F., Tripathi, R., von Eynatten, H., Gasson, E., Kuhn, G., Tripathi, A., DeConto, R., Fielding, C., Field, B., Golledge, N., McKay, R., Naish, T., Olney, M., Pollard, D., Schouten, S., Talarico, F., Warny, S., Willmott, V., Acton, G., Panter, K., Paulsen, T., Taviani, M., and **SMS Team** (2016). Antarctic ice sheet sensitivity to atmospheric CO₂ variations in the early to mid-Miocene. *Proceedings of the National Academy of Sciences*. <http://www.pnas.org/content/early/2016/02/17/1516030113.abstract>

Le Roux, J.P., Achurra, L., Henríquez, Á., Carreño, C., Rivera, H., Suárez, M.E., **Ishman, S.E.**, Pyenson, N.D. and Gutstein, C.S. (2016). Oroclinal bending of the Juan Fernández Ridge suggested by geohistory analysis of the Bahía Inglesa Formation, north-central Chile. *Sedimentary Geology*, 333: 32-49: doi: 10.1016/j.sedgeo.2015.12.003.

Tapia, C., Wilson, G.S., **Ishman, S.E.**, Wilke, H.G, Wartho, J., Winter, D. and Martinez-Pardo, R. (2015) An integrated sequence stratigraphic and chronostratigraphic analysis of the Pliocene, Tiburon Basin succession, Mejillones Peninsula, Chile. *Global and Planetary Change*, 131: 124-147: doi: 10.1016/j.gloplacha.2015.05.005.

Christ, A.J., Talaia-Murray, M., Elking, N., Domack, E.W., Leventer, A., Lavoie, C., Brachfeld, S., Yoo, K., Gilbert, R., Jeong, S., Petrushak, S., Wellner, J., and **LARISSA Group** (2015) Late Holocene glacial advance and ice shelf growth in Barilari Bay, Graham Land, west Antarctic Peninsula. *Geological Society of America Bulletin* published online 16 September 2014: doi: 10.1130/B31035.1

Balco, G, Schaefer, J.M., and **LARISSA Group** (2013) Exposure-age record of Holocene ice sheet and ice shelf change in the northeast Antarctic Peninsula. *Quaternary Science Reviews*, 59: 101-111.

Patterson, M.O. and **Ishman, S.E.** (2012) Neogene benthic foraminiferal assemblage zones and paleoenvironmental record for McMurdo Sound, Antarctica. *Geospheres*, 8: 1331-1341: doi: 10.1130/GES00771.1.

Pinter, N., Scott, A.C., Daulton, T.L., Podoll, A., Koeberl, C., Anderson, R.S., **Ishman, S.E.** (2011) The Younger Dryas impact hypothesis: A requiem. *Earth-Science Reviews*, 106 (3-4): 247 – 264.

Klaus, J.S., Lutz, B.P. McNeill, D.F., Budd, A.F., Johnson, K.G. and **Ishman, S.E.** (2011) Rise and fall of Pliocene free-living corals in the Caribbean. *Geology*, 39: p. 375-378.

Frank, T.D, Z. Gui, and the **ANDRILL SMS Science Team** (2010) Cryogenic origin for brine in the subsurface of southern McMurdo Sound, Antarctica. *Geology*, 38: 587-590.

Warny, S., R.A. Askin, M.J. Hannah, B.A.R. Mohr, J.I. Raine, D.M. Harwood, F. Florindo and the **SMS Science Team** (2009) Palynomorphs from a sediment core reveal a sudden remarkably warm Antarctica during the Middle Miocene. *Geology*, 37: 955-958.

Acton G., Crampton J., DiVincenzo G., Fielding C.R., Florindo F., Hannah M., Harwood D.M., **Ishman S.**, Johnson K., Jovane L., Levy R., Lum B., Marcano M.C., Mukasa S., Ohneiser C., Olney M., Riesselman C., Sagnotti L., Stefano C., Strada E., Taviani M., Tuzzi E., Verosub K.L., Wilson G.S., Zattin M. and the ANDRILL-SMS Science Team (2008-2009) Preliminary integrated chronostratigraphy of the AND-2A Core, ANDRILL Southern McMurdo Sound Project Antarctica. *Terra Antarctica*, 15: 211-220.

Taviani, M., Hannah, M., Harwood, D.M., **Ishman, S.E.**, Johnson, K., Olney, M., Riesselman, C., Tuzzi, E., Askin, R., Beu, A.G., Blair, S., Cantarelli V., Ceregato A., Corrado S., Mohr B., Nielsen S.H.H., Persico D., Petrushak S., Raine J.I., Warny S. and the ANDRILL SMS Science Team (2008-2009) Palaeontological characterization and analysis of the AND-2A Core, ANDRILL Southern McMurdo Sound Project, Antarctica. *Terra Antarctica*, 15: 113-146.

Achurra, L.E., J.P. Lacassie, J.P. Le Roux, C. Marquardt, M. Belmar, J. Ruiz-del-Solar, **S.E. Ishman** (2009) Manganese nodules in the Miocene Bahía Inglesa Formation, north-central Chile: Petrography, geochemistry, genesis and palaeoceanographic significance. *Sedimentary Geology*, 217: 128 - 139

Lutz, B.P., **S.E. Ishman**, D.F. McNeill, J.S. Klaus, and A.F. Budd, (2008) Late Neogene planktonic foraminifera of the Cibao Valley (northern Dominican Republic): Biostratigraphy and paleoceanography. *Marine Micropaleontology*, 69: 282-296.

Pinter, N., and **S.E. Ishman**, (2008) Impacts, mega-tsunami, and other extraordinary claims. *GSA Today*, 18(1): 37-38.

Pinter, N., and **S.E. Ishman**, (2008) Reply to comments on "Impacts, mega-tsunami, and other extraordinary claims." *GSA Today*, 18(6): e14.

Szymcek, P., **S.E. Ishman**, E.W. Domack, and A. Leventer, (2007). Holocene Oceanographic and Climatic Variability of the Vega Drift Deduced through Foraminiferal Interpretation. In Cooper, Alan, Raymond, Carol, and the ISAES Editorial Team, 2007, Antarctica; A keystone in a changing world--online proceedings for the tenth international symposium on Antarctic earth sciences: *U.S. Geological Survey Open-File Report 2007-1047*(DVDROM) [<http://pubs.usgs.gov/of/2007/1047/>], Short Research Paper 010, DOI: 10.3133/of2007-1047.srp010. Hromic, T., **Ishman, S.** and Silva, N., (2006) Benthic foraminiferal distributions in Chilean fjords: 47°S to 54°S. *Marine Micropaleontology*, 59: 115-134.

Le Roux, J.P., D.M. Olivares, S.N. Nielsen, N.D. Smith, H. Middleton, J. Fenner, **S.E. Ishman**, (2006) Bay sedimentation as controlled by regional crustal behaviour, local tectonics and eustatic sea-level changes: Coquimbo Formation (Miocene–Pliocene), Bay of Tongoy, central Chile. *Sedimentary Geology*, 184: 133-153.

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Ishman, S.E. and Webb, P.-N. (2003) Cryogenic biostratinomy of supra-ice shelf foraminifer assemblages, McMurdo Sound, Antarctica. *Journal of Foraminiferal Research*, 33: 122-131.

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Brachfeld, S., Domack E., C.Kissel, C. Laj, Leventer, A., **Ishman, S.**, Gilbert, R., Camerlenghi, A., and Eglinton, L.B. (2003) Holocene history of the Larsen-A Ice Shelf constrained by geomagnetic paleointensity dating. *Geology*, 31: 749-752

Ishman, S.E. and Sperling, M.R. (2002) Benthic foraminiferal record of Holocene deep-water evolution in the Palmer Deep, western Antarctic Peninsula. *Geology*, 30: 435-438.

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Ishman, S. E. and Webb, P. N. (1988) Late Neogene benthic foraminifera from the Victoria Land Basin margin, Antarctica: application to glacio-eustatic and tectonic events. *Revue de Paleobiologie*, Special Volume 2(2): 523-551.

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Cronin, T.M. and **Ishman, S.E.** (2000) Holocene paleoclimate from Chesapeake Bay based on ostracodes and benthic foraminifera from Marion-Dufresne core MD99-2209. *US Geological Survey Open-File Report 00-306*, 93-101.

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