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Education: Ph.D. Earth Sciences, Scripps Institution of Oceanography,
University of California, San Diego, 1986.

M.S. Oceanography, Scripps Institution of Oceanography,
University of California, San Diego, 1982.

B.A. with Honours in Geology, Oxford University, England, 1980.

Professional Experience:

Professor, Department of Geosciences,
Pennsylvania State University, 2003-.

Head, Department of Geosciences,
Pennsylvania State University, 2003-2011; 2017-2018.

Chair, Department of Geological Sciences,
University of North Carolina, Chapel Hill, 1998-2002.

Joseph Sloane Professor of Geological and Marine Sciences,
University of North Carolina, Chapel Hill, 1998-2002.

Associate Professor of Geological and Marine Sciences, University of North
Carolina, Chapel Hill, 1993-1998.

Assistant Professor, Geological and Marine Sciences, University of North
Carolina, Chapel Hill, 1990-1993.

Assistant Professor, Florida International University,
State University of Florida at Miami, 1987-1990.

ODP/IODP: Shipboard biostratigrapher, Leg 122 (Indian Ocean, 1988), Leg 143 (Pacific
Ocean, 1993), Leg 165 (Caribbean, 1995), Expedition 364 (Chicxulub, 2016).
Co-chief scientist, ODP Leg 198 (Pacific, 2001).

Honors: Hettelman Junior Faculty Research Prize, UNC-CH, 1995.
Fulbright Senior Scholarship, University of New South Wales, 2011-12.
Wilson Service Award, College of Earth and Mineral Sciences, PSU, 2015; G.
Montgomery and Marion Mitchell Award for Innovative Teaching, College of
Earth and Mineral Sciences, PSU, 2017; George W. Atherton Award for
Excellence in Teaching, PSU Systemwide Highest Award 2020.

Memberships: AGU, GSA, NAGT

Publications: <http://scholar.google.com/citations?user=q4WEgGYAAAAJ&hl=en&oi=ao>

Partial list of Professional Service (past 20 years)

- Associate Editor, *Marine Micropaleontology*, 1995-2021
- Associate Editor, *Palaios*, 1999-2016
- Associate Editor, *Paleoceanography*, 2001-2007
- Associate Editor, *Terra Nova*, 2012-2020
- Member, Proposal Evaluation Panel, Integrated Ocean Drilling Program 2011-2014
- Member of JOI-USSSP, 1998-2002
- Councilor, Geological Society of America, 2014-2018
- Chair, Selection Committee, Day Medal, GSA, 2018
- Chair, Selection Committee, Penrose Medal, GSA, 2016-2017
- Chair, Selection Committee, Moore Medal, SEPM, 2014-2017
- Selection Committee, Jim Shea Award AGI, 2018-2021
- Selection Committee, Asahiko Taira International Scientific Ocean Drilling Research Prize, AGU, 2015-2018
- Distinguished Speaker, National Association of Geoscience Teachers, 2011-2014
- Australian-American Fulbright Scholarship Selection Committee, 2012-2015
- Advisory Board of the Climate Change Research Centre, University of New South Wales, 2021-
- Advisory Board of the National Geoscience Departments Heads and Chairs, 2005-2011
- Member of AGU Heads and Chairs 2004-2011; Executive Committee 2006-2009
- External Review Committee for geoscience departments: UMass, Iowa, Syracuse. Virginia Tech (twice), South Carolina, Millersville, Texas A&M (2005-2018)
- Organized session at Fall AGU on Biotic Response to Global Warming; Past and Present, 2007
- Organized session at Fall AGU on Building Geoscience Departments for the Future, 2007
- Organized session at Fall AGU on Teaching about the Earth in the Context of Societal Issues, 2016
- Organized session at GSA Annual Meeting, *Teaching about the Earth Online*, 2017
- Organized 50 person InTeGrate Workshops on (1) Programs that Bring Together Geosciences and Sustainability at Stanford University (2012); (2) The Geosciences Workforce at Penn State (2014); and (3) online teaching in the Earth sciences (at Penn State 2017)
- Leader for *Preparing for an Academic Career in the Geosciences: A Workshop for Graduate Students and Post-doctoral Fellows* at Penn State in 2005 and Stanford University, 2006
- Convened workshop Connecting Geoscience Departments to the Future of Science: New Structures for Research and Curriculum, Carleton College, 2007
- Steering committee for Summit on the Future of Undergraduate Geoscience Education, UT Austin, 2014
- Participated in Congressional NSF Day on Capitol Hill as AGU representative 2011
- Participated in Congressional Climate Day on Capitol Hill representing GSA, 2018
- Founding member of Building Strong Geosciences Departments (2004-2012) program run out of the SERC Office at Carleton College that works to strengthen departments around the country. Conducted travelling workshops at programs in PA and at Universities 2005-2012 around Australia in 2011-2012
- Co-PI and leader of the national GEO-STEP NSF InTeGrate Center Interdisciplinary Teaching of Geoscience for a Sustainable Future (2011-2018), Penn State was the online arm of the \$10 million national center (<https://serc.carleton.edu/integrate/index.html>) and developed five online courses as part of the program
- Led the development of the *Geobiology* BS Program (2003), the Penn-State-Fort Valley State University 3+2 BS Program (2004), and the *Earth Science and Policy* BS Program (2009). Led the development of the *Earth Sustainability* Certificate and Minor programs as part of the InTeGrate program. Currently teach *Earth Futures* online course to about 800 students a year (<https://www.e-education.psu.edu/earth103>)

BIBLIOGRAPHY

T. J. Bralower

PUBLICATIONS

(total 174; Total Citations: 8,116 H-index: 48 (ISI) (Google Scholar H index: 67)

- 2021 **Morgan, J., Bralower, T., Brugger, J., and Wuennemann, K.**, Chicxulub impact crater formation and environmental consequences. *Nature Reviews Earth and Environment*, in review.
- 2021 **Fortiz, V., Oakes, R.L., Boudinot, F.G., Jones, M.M., Leckie, R.M., Sageman, B.B., Sepúlveda, J., Bralower, T.J.**, Paleooceanographic Significance of Calcareous Nannofossil Assemblages in the Tropic Shale Formation of Utah, during Oceanic Anoxic Event 2 at the Cenomanian-Turonian Boundary. *Micropaleontology*, in review.
- 2021 **Lowery, C.M., Jones, H.L., Bralower, T.J., Perez Cruz, L., Gebhardt, C., Whalen, M.T., Chenot, E., Smit, J., Purkey Phillips, M., Konstantin, C. K., Ignacio Arenillas J. Arz, J., Garcia F., Ferrand, M., Lofi, J., Gulick, S.P.S., Exp. 364 Science Party.** Early Paleocene Paleooceanography and Export Productivity in the Chicxulub Crater. *Paleoceanography and Paleoclimatology*, in revision.
- 2021 **Bryant, R., Leckie, R.M., Bralower, T.J., Jones, M.M., and Sageman, B.B.**, Microfossil and geochemical records reveal unique paleoenvironments near the southwestern edge of the Western Interior Seaway during Oceanic Anoxic Event 2, *Micropaleontology*, in revision.
- 2021 **Babila, T.L., Penman, D.E., Standish, C.D., Doubrawa, M., Bralower, T.J., Robinson, M.M., Self-Trail, J.M., Speijer, R.P., Stassen, P., Foster, G.L., and Zachos J.C.**, Surface ocean warming and acidification driven by rapid carbon release precedes Paleocene-Eocene Thermal Maximum, *Science Advances*, in revision.
- 2021 **Cockell, C.S. Coolen, M.J.L., Grice, K. Schaefer, B. Schnieders, L., Morgan, J.V., Sean P. S. Gulick, S.P.S., Wittmann, A. Lofi, J., Christeson, G., Kring, D.A., Whalen, M., Bralower, T.J., and others.** Shaping of the present-day deep biosphere by the impact catastrophe that ended the Cretaceous, *Frontiers in Microbiology*, 12, p.1413
- 2021 **Jones, H.L., Scrobola, Z., and Bralower, T.J.**, Size and shape variation in the calcareous nannoplankton genus *Braarudosphaera* following the Cretaceous-Paleogene (K-Pg) mass extinction: clues as to its evolutionary success, *Paleobiology*, 1-24.
- 2021 **Goderis, S., Sato, H., Ferrière, L., Schmitz, B., Burney, D., Bralower, T.J., Claeys, P., de Graaff, S. J., Déhais, T., de Winter, N.J., Mikael Elfman, M., Feignon, J.-G., Gulick, S.P.S., Ishikawa, A., Kaskes, P., Koeberl, C., Kristiansson, P., Lowery, C.M., Morgan, J.V., Neal, C.R., Owens, J.D., Schulz, T., Sinnesael, M., Smit, J., Vellekoop, J., Whalen, M.T., Wittmann, A., Vanhaecke, F., Van Malderen, S., and the Expedition 364 Science Party,** Iridium anomaly within the Chicxulub impact structure. *Science Advances*, Vol. 7, no. 9, eabe3647, DOI: 10.1126/sciadv.abe3647.
- 2020 **Bralower, T.J., Cosmidis, J. Fantle, M., Lowery, C., Passey, B., Gulick, S., Morgan, J., Vajda, V., Whalen, M., Wittmann, A., Artemieva, N., Farley, K., Goderis, S., Hajek, E., Heaney P., Kring, D., Lyons, S., Rasmussen, C., Sibert, E., Tovar, F. Gordon Turner-Walker, G., Zachos, J., Carte, J., Chen, S., Cockell, C., Coolen, M., Freeman, K., Garber, J., Gray, J., Gonzales, M., Grice, K., Jones, H., Schaefer, B., Smit, J., and Tikoo, S.** The habitat of the nascent Chicxulub crater, *AGU Advances*, <https://doi.org/10.1029/2020AV000208>

- 2020 **Bralower, T.J., Cosmidis, J., Heaney, P., Kump, L.R., Morgan, J., Harper, D., Lyons, S.L., Freeman, K.H., Grice, K., Wendler, J., Zachos, J.C., Artemieva, N., Gulick, S., House, C., Jones, H.L., Lowery, C.L., Nims, C., Schaefer, B., Si, A., Thomas, E., Vajda, V.** Origin of a global carbonate layer deposited in the aftermath of the Cretaceous-Paleogene boundary impact. *Earth Planetary Science Letters*, 548, 1164.
- 2020 **Smith, V., Warny, S., Grice, K., Schaefer, B., Whalen, M.T., Vellekoop, J., Chenot, E., Gulick, S.P.S., Arenillas, I., Arz, J.A., Bauersachs, T., Bralower, T., Demory, F., Gattacceca, J., Jones, H., Lofi, J., Lowery, C.M., Morgan, J., Nuñez Otaño, N.B., O’Keefe, J.M.K., O’Malley, K., Rodríguez-Tovar, F.J., Schwark, L., and the Expedition 364 Scientists,** Life and death in the Chicxulub impact crater: A record of the Paleocene-Eocene Thermal Maximum, *Climate of the Past*, 16, 1889-1899, <https://cp.copernicus.org/articles/16/1889/2020/>.
- 2020 **Collins, G.S., Patel, N., Davison, T.M., Rae, A.S.P., Morgan, J.V., Gulick, S.P.S., Christeson, G.L., Chenot, E., Claeys, P., Cockell, C.S., Coolen, M.J.L., Ferrière, L., Gebhardt, C., Goto, K., Jones, H., Kring, D.A., Lofi, J., Lowery, C.M., Ocampo-Torres, R., Perez-Cruz, L., Pickersgill, A.E., Poelchau, M.H., Rasmussen, C., Rebolledo-Vieyra, M., Riller, U., Sato, H., Smit, J., Tikoo, S.M., Tomioka, N., Urrutia-Fucugauchi, J., Whalen, M.T., Wittmann, A., Xiao, L., Yamaguchi, K.E., Artemieva, N., Bralower, T.J., Party, I.-I.E.S., Third-Party, S.,** 2020. A steeply-inclined trajectory for the Chicxulub impact. *Nature Communications* 11, 1480.
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- 2020 **Whalen, M.T., Gulick, S.P.S., Lowery, C.M., Bralower, T.J., Morgan, J.V., Grice, K., Schaefer, B., Smit, J., Ormö, J., Wittmann, A., Kring, D.A., Lyons, S., Goderis, S., Rodríguez-Tovar, F.J., and the IODP Expedition 364 Scientists.** Winding down the Chicxulub impact: the transition between impact-related and normal marine sedimentation at ground zero. *Marine Geology*, 430, 106368.
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- 2020 **Kring, D.A., Tikoo, S.M., Schmieder, M., Riller, U., Rebolledo-Vieyra, M., Simpson, S.L., Osinski, G.R., Gattacceca, J., Wittmann, A., Verhagen, C.M., Cockell, C., Marco J. L. Coolen, M.J.L. Fred J. Longstaffe, F.J., Gulick, S.P.S., Morgan, J.V., Bralower, T.J., and others.** Probing the hydrothermal system of the Chicxulub Crater and its potential as a deep Earth habitat, *Science Advances*, 6, eaaz3053.
- 2020 **Ajayi, S., Kump, L.R., Ridgwell, A., Kirtland Turner, Hay, S.C., and Bralower, T.J.** Evaluation of Paleocene-Eocene Thermal Maximum carbon isotope record completeness - an illustration of the potential of Dynamic Time Warping in aligning paleo-proxy records. *Geochemistry, Geophysics, Geosystems*, 21, e2019GC008620. <https://doi.org/10.1029/2019GC008620>.
- 2020 **Boudinot, F.G., Leckie, R.M., Dilda, N., Jones, M.M., Sageman, B.B., Bralower, T.J., Sepúlveda, J.** Neritic ecosystem response to Oceanic Anoxic Event 2 in the Cretaceous Western Interior Seaway. *Palaeogeography, Palaeoclimatology, Palaeoecology*, <https://doi.org/10.1016/j.palaeo.2020.10967>.

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- 2019 **Gulick, S., Bralower, T.J., Ormö, J., Hall, B., Grice, K., Schaefer, B., Lyons, S., Freeman, K., Morgan J., Artemieva, N., Kaskes, P. de Graaff, S., Whalen, M., Goto, K., Smit, J. and others.** First Days of the Cenozoic, *PNAS*, 116, 19342-19351.
- 2019 **Lyons, S.L., Baczynski, A.A., Babila, T.J., Bralower, T.J., Hajek, E.A., Kump, L.R., Polites, E.G., Trampush, S.M., Vornlocher, J.R., Zachos, J.C., and Freeman, K.H.** Fossil carbon oxidation prolonged the Paleocene–Eocene Thermal Maximum. *Nature Geosciences*, 12(1), 54-60.
- 2019 **Oakes, R.L., Peck, V.L., Manno, C., Bralower, T.J.** Degradation of internal organic matter is the main control on pteropod shell dissolution after death. *Global Biogeochemical Cycles*, <https://doi.org/10.1029/2019GB006223>
- 2019 **Hupp, B.N., Kelly, D.C., Zachos, J.C. and Bralower, T.J.** Effects of size-dependent sediment mixing on deep-sea records of the Paleocene-Eocene Thermal Maximum. *Geology*, 4,; 749-752.
- 2019 **Jones, M.M., Sageman, B.B, Oakes, R.L., Parker, A.L., Leckie, R.M., Bralower, T.J., Sepúlveda, J., Fortiz, V.** Astronomical pacing of relative sea level during Oceanic Anoxic Event 2: Preliminary studies of the expanded SH#1 Core, Utah. *GSA Bulletin*, 131, 1702-1722, <https://doi.org/10.1130/B32057.1>
- 2019 **Taylor, L., O’Dea, A., Bralower, T., and Finnegan, S.** Isotopes from fossil coronulid barnacle shells record evidence of migration in multiple Pleistocene whale populations. *PNAS* <https://doi.org/10.1073/pnas.1808759116>
- 2019 **Lowery, C., Morgan, J. V., Gulick, S. P. S., Bralower, T. J., Christeson, G. L., and Expedition 364 Scientists.** Ocean Drilling Perspectives on Meteorite Impacts, *Oceanography*, <https://doi.org/10.5670/oceanog.2019.133>
- 2019 **Gosselin, D. C., Manduca, C. A., Bralower, T., and Egger, A. E.** Preparing students to address societally relevant challenges in the geosciences: the InTeGrate approach. In *Interdisciplinary Teaching About Earth and the Environment for a Sustainable Future* (pp. 3-23). Springer, Cham.
- 2018 **Hantsoo, K.G., Kump, L.R., Haupt, B.J., and Bralower, T.J.** Tracking the Paleocene-Eocene Thermal Maximum in the North Atlantic: A shelf-to-basin analysis with a regional ocean model. *Paleoceanography and Climatology*. <https://doi.org/10.1029/2018PA003371>

- 2018 **Livsey, C.M. Babila, T.L., Robinson, M.M., and Bralower, T.J.** The planktonic foraminiferal response to the Paleocene-Eocene thermal maximum in the Atlantic Coastal Plain. *Marine Micropaleontology*, 146, 39-50, <https://doi.org/10.1016/j.marmicro.2018.12.001>
- 2018 **Christeson, G.L., Gulick, S.P.S., Morgan, J.V., Gebhardt, C., Kring, D.A., Le Ber, E., Lofi, J., Nixon, C., Poelchau, M., Rae, A.S.P., Rebolledo-Vieyra, M., Riller, U., Schmitt, D.R., Wittmann, A., Bralower, T.J., and others.** Extraordinary rocks from the peak ring of the Chicxulub impact crater: P-wave velocity, density, and porosity measurements from IODP/ICDP Expedition 364. *Earth and Planetary Science Letters*, 495, pp.1-11.
- 2018 **Riller, U., Poelchau, M.H., Rae, A.S.P. Schulte, F.M., Collins, G.S. , Melosh, H.J., Grieve, R.A.F., Morgan, J.V. , Gulick, S.P.S., and others including Bralower, T.J.** Rock fluidization during peak-ring formation of large impact structures, *Nature* 562:511–518, <https://doi.org/10.1038/s41586-018-0607-z>.
- 2018 **Babila, T.L., Penman, D.E., Hönisch, B., Kelly, D.C., Bralower, T.J., Rosenthal, Y. and Zachos, J.C.** Capturing the global signature of surface ocean acidification during the Palaeocene–Eocene Thermal Maximum. *Phil. Trans. R. Soc. A*, 376(2130), p.20170072.
- 2018 **Lowery, C.M., Bralower, T.J., Owens, J.D., Rodríguez-Tovar , F.J., Jones, H., Smit, J., Whalen, M.T., Claeys, P., Farley, K., Gulick, S.P.S., Morgan, J.V., and others.** Rapid Recovery of Life At Ground Zero of the End Cretaceous Mass Extinction. *Nature*, 558, 288–29.
- 2018 **Bralower, T.J., Kump, L.R., Robinson, M.M., Self-Trail, J.M., Babila, T., Ballaron, E., Freeman, K.H., Hajek, E.A., Lyons, S.L., Rush, W., Zachos, J.C.** Evidence for Shelf Acidification during the Onset of the Paleocene-Eocene Thermal Maximum. *Paleoceanography and Climatology*. <https://doi.org/10.1029/2018PA003382>
- 2018 **Leon y Leon, I., Bralower, T.J., and Self-Trail, J.M.** Ecological changes in the nannoplankton community across a shelf transect during the onset of the Paleocene-Eocene thermal maximum. *Paleoceanography and Paleoclimatology*. <https://doi.org/10.1029/2018PA003383>
2018. **Oakes, R.L.⁺, Peck, V.L., Manno, C., and Bralower, T.J.** Impact of preservation techniques on pteropod shell condition. *Polar Biology*, 42, 257-269, DOI 10.1007/s00300-018-2419-x.
- 2017 **Artemieva, N., Morgan, J., Gulick, S., Bralower, T., Chenot, E., Christeson, G., Claeys, P., Cockell, C., Collins, G.S., Coolen, M.J.L., Ferrière, L., and others.** Quantifying the release of climate-active gases by large meteorite impacts with a case study of Chicxulub. *Geophysical Research Letters*, v. 44 doi: 10.1002/2017GL074879.
- 2017 **Kring, D.A., Claeys, P., Gulick, S.P.S., Morgan, J.V., Collins, G.S., Bralower, T., Chenot, E., Christeson, G., Cockell, C., Coolen, M.J.L., Ferrière, L., and others.** Chicxulub and the exploration of large peak-ring impact craters through scientific drilling. *GSA Today* v. 27 doi: 10.1130/GSATG352A.1.
- 2017 **Lowery, C.M., Cunningham, R., Barrie, C.D., Bralower, T. and Snedden, J.W.** The Northern Gulf of Mexico During OAE2 and the Relationship Between Water Depth and Black Shale Development. *Paleoceanography and Paleoclimatology*, 32(12), pp.1316-1335.
- 2017 **Meissner, K.J. and Bralower, T.J.** Palaeoclimate: Volcanism caused ancient global warming. *Nature*, 548(7669), p.531.
- 2017 **Self-Trail, J.M., Robinson, M.M., Bralower, T.J., Sessa, J.A., Hajek, E.A., Kump, L.R.,**

- Trampush, S.M., Willard, D.A., Edwards, L.E., Powars, D.S. and Wandless, G.A.** Shallow marine response to global climate change during the Paleocene-Eocene Thermal Maximum, Salisbury Embayment, USA. *Paleoceanography*, 32, 710–728, doi:[10.1002/2017PA003096](https://doi.org/10.1002/2017PA003096)
- 2016 Morgan, J.V., Gulick, S.P., Bralower, T., Chenot, E., Christeson, G., Claeys, P., Cockell, C., Collins, G.S., Coolen, M.J., Ferrière, L. Gebhardt, C., and others.** The formation of peak rings in large impact craters. *Science*, 354(6314), pp.878-882.
- 2016 Bralower, T.J., and Self-Trail, J.M.** Nannoplankton malformation during the Paleocene-Eocene thermal maximum and its paleoecological and paleoceanographic significance. *Paleoceanography*, v. 31, p. 1423-1439.
- 2015 Alexander, K., Meissner, K.J. and Bralower, T.J.** Sudden spreading of corrosive bottom water during the Paleocene-Eocene Thermal Maximum. *Nature Geosciences*, DOI: 10.1038/NGEO2430
- 2015 Schueth, J., and Bralower, T.J.** The relationship between environmental change and the extinction of the nannoplankton *Discoaster* in the early Pleistocene. *Paleoceanography*, DOI 10.1002/2015PA002803
- 2015 Schueth, J., and Bralower, T.J., Jiang, S., and Patzkowsky, M.E.** The role of regional survivor incumbency in the evolutionary recovery of calcareous nannoplankton from the Cretaceous/Paleogene (K/Pg) mass extinction. *Paleobiology*, DOI: 10.1017/pab.2015.28
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- 2014 Meissner, K. J., Bralower, T. J., Alexander, K., Jones, T. D., Sijp, W., & Ward, M.** The Paleocene-Eocene Thermal Maximum: How much carbon is enough?. *Paleoceanography*. 10.1002/2014PA002650.
- 2014 Schueth, J. D., Keller, K., Bralower, T. J., and Patzkowsky, M. E.** The Probable Datum Method (PDM): a technique for estimating the age of origination or extinction of nannoplankton. *Paleobiology*, v. 40(4), p. 541-559.
- 2014 Clyde, W. C., Wilf, P., Iglesias, A., Slingerland, R.L., Barnum, T., Bijl, P.K., Bralower, T.J. and others.** New age constraints for the Salamanca Formation and lower Río Chico Group in the western San Jorge Basin, Patagonia, Argentina: Implications for Cretaceous-Paleogene extinction recovery and land mammal age correlations. *Geological Society of America Bulletin*: B30915-1.
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- 2013 Schneider, L. J., Bralower, T. J., Kump, L. R., & Patzkowsky.** Calcareous nannoplankton ecology and community change across the Paleocene-Eocene Thermal Maximum. *Paleobiology*, v. 39(4), p. 628-647.

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