

Ocean Science Center

Publications in 2025

Paleobiology

Hart, Malcolm B., Batenburg, Sietske J., **Huber, Brian T.**, Price, Gregory D., Thibault, Nicolas, Wagreich, Michael, and Walaszczyk, Irek P. 2025. "Introduction to the Cretaceous System: Regional Studies (SP 545)." *Geological Society, London, Special Publications*, 545, (1). <https://doi.org/10.1144/SP545-2024-68>

Culver, Stephen J., Mallinson, David J., Allen, Cody, Brown, Colby, Shmorhun, Nina Maria-Elena, and **Buzas, Martin A.** 2025. "The Effects of Two Recent Hurricanes on Foraminiferal Assemblages and Sediments of a Wave-Dominated, Microtidal Barrier-Island System, North Carolina, USA." *Palaios*, 40, (2) 35–61. <https://doi.org/10.2110/palo.2024.004>.

Balestra, Barbara, **Huber, Brian**, Chen, Jonathan, **Farfan, Gabriela A.**, MacLeod, Kenneth G., Rose, Timothy, Paytan, Adina, and Gooding, Timothy. 2025. "Benthic foraminiferal Mg/Ca response across the Aptian-Albian Boundary Interval at DSDP Site 511 (Falkland Plateau)." *Palaeogeography, Palaeoclimatology, Palaeoecology*, 663. <https://doi.org/10.1016/j.palaeo.2025.112769>.

Edie, Stewart M., Collins, Katie S., and Jablonski, David. 2025. "The end-Cretaceous mass extinction restructured functional diversity but failed to configure the modern marine biota." *Science Advances*, 11, (21). <https://doi.org/10.1126/sciadv.adv1171>.

Chen, Jonathan, Jacobson, Andrew, Wan, Chuyan, Waldeck, Anna, MacLeod, Kenneth, Balestra, Barbara, **Huber, Brian T.**, and Sageman, Bradley. 2025. "[Calcium Isotopes Link Ocean Acidification to Extinctions of Planktic Foraminifera at the Aptian-Albian Boundary.](#)" in *GSA Connects 2025 Meeting in San Antonio, Texas*. The Geological Society of America. <https://doi.org/10.1130/abs/2025AM-6558>

Culver, Stephen J., Mallinson, David J., Allen, Cody, Brown, Colby, Shmorhun, Nina Maria-Elena, and **Buzas, Martin A.** 2025. "[The Effects of Two Recent Hurricanes on Foraminiferal Assemblages and Sediments of a Wave-Dominated, Microtidal Barrier-Island System, North Carolina, USA.](#)" *Palaios*, 40, (2) 35-61. <https://doi.org/10.2110/palo.2024.004>.

Eshelman, Ralph E., Bell, Christopher J., Graham, Russell W., Semken, Homes A., Jr., Withnell, Charles B., Scarpetta, Simon G., **James, Helen F.**, Godfrey, Stephen J., **Mead, Jim I.**, Hodnett, John-Paul, and Grady, Frederick. 2025. [Middle Pleistocene Cumberland Bone Cave Local Fauna, Allegany County, Maryland: A Systematic Revision and Paleoeological Interpretation of the](#)

Irvingtonian, Middle Appalachians, USA. Washington, DC: Smithsonian Institution Scholarly Press. In *Smithsonian Contributions to Paleobiology*, 108. <https://doi.org/10.5479/si.28597193.??>

Hart, Malcolm B., Batenburg, Sietske J., **Huber, Brian T.**, Price, Gregory D., Thibault, Nicolas, Wagreich, Michael, and Walaszczyk, Irek P. 2025. "[The Cretaceous World](#)." *Geological Society, London, Special Publications*, 544, (1) 1-10. <https://doi.org/10.1144/SP544-2024-67>.

Hart, Malcolm B., Batenburg, Sietske J., **Huber, Brian T.**, Price, Gregory D., Thibault, Nicolas, Wagreich, Michael, and Walaszczyk, Irek P. 2025. "[Introduction to the Cretaceous System: Regional Studies \(SP 545\)](#)." *Geological Society, London, Special Publications*, 545, (1). <https://doi.org/10.1144/SP545-2024-68>.

Hoehle, Marlene, Methner, Katharina, **Hunt, Gene**, Piller, Werner E., and Wrozyna, Claudia. 2025. "[Temporal and spatial variation of sexual size and shape dimorphism of *Cyprideis torosa* \(Ostracoda\)](#)." *Zoological Journal of the Linnean Society*, 204, (2) zlaf049. <https://doi.org/10.1093/zoolinlean/zlaf049>.

Jablonski, David and **Edie, Stewart M.** 2025. "[Mass extinctions and their rebounds: a macroevolutionary framework](#)." *Paleobiology*, <https://doi.org/10.1017/pab.2024.13>.

MacLeod, Kenneth G., **Huber, Brian T.**, Tabor, Clay, Mitra, Siddhartha, Wheatley, Rachel, Harrison, Cheryl, Tessler, Maya, Bardeen, Charles, Lovenduski, Nicole S., Coupe, Joshua, and Hu, Shixiong. 2025. "[Isotopic evidence from a Brazos River \(Texas, USA\) Cretaceous/Paleogene boundary section consistent with a pulse of greenhouse warming shortly after the Chicxulub impact](#)." *Global and Planetary Change*, 253. <https://doi.org/10.1016/j.gloplacha.2025.104924>.

Motani, Ryosuke, **Pyenson, Nicholas D.**, and Jiang, Da-yong. 2025. "[Was *Hupehsuchus* a baleen whale-style filter feeder in the Early Triassic? A re-examination of the evidence](#)." *PeerJ*, 13. <https://doi.org/10.7717/peerj.19666>.

Peredo, Carlos Mauricio, **Pyenson, Nicholas D.**, and Uhen, Mark D. 2025. "[Retraction Note: Lateral palatal foramina do not indicate baleen in fossil whales](#)." *Scientific Reports*, 15, (1). <https://doi.org/10.1038/s41598-025-88714-w>.

Pyenson, Nicholas D., Sakal, Ferhan, LeBlanc, Jacques, Blundell, Jon, Klim, Katherine D., Marshall, Christopher D., Velez-Juarbe, Jorge, Wolfe, Katherine, and Al-Naimi, Faisal. 2025. "[High abundance of Early Miocene sea cows from Qatar shows repeated evolution of seagrass ecosystem engineers in Eastern Tethys](#)." *PeerJ*, 13. <https://doi.org/10.7717/peerj.20030>.

Strauch, Rebecca J., Berv, Jake S., Fraser, Danielle, **Pyenson, Nicholas D.**, and Peredo, Carlos Mauricio. 2025. "[Morphological diversity of the cetacean mandibular symphysis coincides with novel modes of aquatic feeding](#)." *Paleobiology*, 1-10. <https://doi.org/10.1017/pab.2025.10061>.

Strauch, Rebecca J., **Pyenson, Nicholas D.**, and Peredo, Carlos Mauricio. 2025. "[How is the third jaw joint in whales different? Diverse modes of articulation between the jaws of whales.](https://doi.org/10.1111/joa.70008)" *Journal of anatomy*, <https://doi.org/10.1111/joa.70008>.

Valenzuela-Toro, Ana, **Pyenson, Nicholas D.**, Velez-Juarbe, Jorge, and Suárez, Mario E. 2025. "[Aquatic sloths \(*Thalassocnus*\) from the Miocene of Chile and the evolution of marine mammal herbivory in the Pacific Ocean.](https://doi.org/10.7717/peerj.19897)" *PeerJ*, 13. <https://doi.org/10.7717/peerj.19897>.