

124 Peer-reviewed publications Student and post-doctoral coauthors in *italics*.

1. Costa K., S. G. Nielsen, Y. Wang, W. Lu. S. K. V. Hines, A. Jacobel, D. W. Oppo (2023). Marine sedimentary uranium to barium ratios as a potential quantitative proxy for Pleistocene bottom water oxygen concentrations *Geochim. Cosmochim. Acta*, 343, 1-16, <https://doi.org/10.1016/j.gca.2022.12.022>.
2. Du, X., J.M Russell, Z.Liu, B. L Otto-Bliesner, Y. Gao, C. Zhu, D. Oppo, M. Mohtadi, Y. Yan, V. Galy (2023) North Atlantic cooling triggered a zonal mode over the Indian Ocean during Heinrich Stadial 1, *Science Advances*, 9 DOI: [10.1126/sciadv.add49](https://doi.org/10.1126/sciadv.add49)
3. Lu, W., Y. Wang, D. W. Oppo, S. G. Nielsen, K. M. Costa (2022).Comparing paleo-oxygenation proxies (benthic foraminiferal surface porosity, I/Ca, authigenic uranium) on modern sediments and the glacial Arabian Sea, *Geochimica et Cosmochimica Acta*,331, 69-85, <https://doi.org/10.1016/j.gca.2022.06.001>.
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5. Yu, J., D. W. Oppo Z. Jin, M. Lacerra, X. Ji, N. E. Umling, D. C. Lund, N. McCave, L. Menviel, J. Shao (2022) Millennial and centennial CO₂ release from the Southern Ocean during the last deglaciation, *Nature Geosciences*. *Nature Geosciences*, <https://doi.org/10.1038/s41561-022-00910-9>
6. Du, X., J. M. Russell, Z. Liu, B. L. Otto-Bliesner, Y. Gao, C. Zhu, D. W. Oppo, M. Mohtadi, Y. Yan, V. V. Galy (2021) Deglacial trends in Indo-Pacific Warm Pool hydroclimate in an isotope-enabled Earth system model and implications for isotope-based paleoclimate reconstructions, *Quaternary Science Reviews* 270, 107188. <https://doi.org/10.1016/j.quascirev.2021.107188>
7. Gu, S., Z. Liu, D. W. Oppo, J. Lynch-Stieglitz, A. Jahn, J. Zhang, K. Lindsay, L. Wu (2021) Remineralization dominating the $\delta^{13}\text{C}$ decrease in the mid-depth Atlantic during the last deglaciation, *Earth and Planetary Science Letters* 571, 117106. <https://doi.org/10.1016/j.epsl.2021.117106>
8. Gu, S. Z. Liu, D. W. Oppo, J. Lynch-Stieglitz, A. Jahn, J. Zhang, L. Wu (2020) Assessing the potential capability of reconstructing glacial Atlantic water masses and AMOC using multiple proxies in CESM, *Earth and Planetary Science Letters* 541, 116294 <https://doi.org/10.1016/j.epsl.2020.116294>
9. Spooner, P. T., D. J. R. Thornalley, D. W. Oppo, A. Fox, S. Radionovskaya, K. Green, N. L. Rose, T. Monica, L. Thrower, R. Mallett, E. Cooper, J. M. Roberts (2020) Exceptional 20th century ocean circulation in the Northeast Atlantic, *Geophys. Res. Letts*. e2020GL087577 <https://doi.org/10.1029/2020GL087577>
10. Hollstein, M., Mohtadi, M., Kienast, M., Rosenthal, Y., Groeneveld, J., Oppo, D., Southon, J. and Lückge, A. (2020), The impact of astronomical forcing on surface

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 16. Lacerra, M., Lund, D. C., Gebbie, G. , Oppo, D. W., Yu, J. , Schmittner, A. and Umling, N. E. (2019), Less Remineralized Carbon in the Intermediate-Depth South Atlantic During Heinrich Stadial 1. *Paleoceanography and Paleoclimatology*, 34: 1218-1233. doi:[10.1029/2018PA003537](https://doi.org/10.1029/2018PA003537)
 17. Rodriguez, L. G., Cohen, A. L., Ramirez, W. , Oppo, D. W., Pourmand, A. , Edwards, R. L., Alpert, A. E. and Mollica, N. (2019), Mid-Holocene, Coral-Based Sea Surface Temperatures in the Western Tropical Atlantic. *Paleoceanography and Paleoclimatology*, 34: 1234-1245. doi:[10.1029/2019PA003571](https://doi.org/10.1029/2019PA003571)
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