

EARTHSEQUENCING Publications

1. Greene, S.E., Ridgwell, A.J., Kirtland Turner, S., Schmidt, D.N., Pälike, H., Thomas, E., Greene, L.K., Hoogakker, B.A.A. (2019, accepted), Early Cenozoic Decoupling of Climate and Carbonate Compensation Depth Trends, *Paleoceanography and Paleoclimatology*, <https://dx.doi.org/10.1029/2019PA003601>.
2. Littler, K., Westerhold, T., Drury, A.J., Liebrand, D., Lisiecki, L., Pälike, H. (2019), Astronomical Time Keeping of Earth History: An Invaluable Contribution of Scientific Ocean Drilling, *Oceanography*, <https://dx.doi.org/10.5670/oceanog.2019.122>.
3. Aguirre-Urreta, B., Martinez, M. et al (2019), Interhemispheric radio-astrochronological calibration of the time scales from the Andean and the Tethyan areas in the Valanginian–Hauterivian (Early Cretaceous), *Gondwana Research*, <https://dx.doi.org/10.1016/j.gr.2019.01.006>
4. Kotov, S., Pälike, H. (2019), Enhanced Principal Tensor Analysis as a tool for 3-way geological data reconstructions, *Computers & Geosciences*, <https://dx.doi.org/10.1016/j.cageo.2018.11.001>
5. Vahlenkamp, M., Niezgodzki, I., De Vleeschouwer, D., Lohmann, G., Bickert, T., Pälike, H. (2018), Ocean and climate response to North Atlantic seaway changes at the onset of long-term Eocene cooling, *EPSL* 498, 185-195, <https://dx.doi.org/10.1016/j.epsl.2018.06.031>
6. De Vleeschouwer, D., Auer, G., Smith, R., Bogus, K., Christensen, B., Groeneveld, J., Patrick, B., Henderiks, J., Castaneda, I.S., O'Brien, E., Ellinghausen, M., Gallagher, S.J., Fulthorpe, C.S., Pälike, H. (2018), The amplifying effect of Indonesian Throughflow heat transport on Late Pliocene Southern Hemisphere climate cooling, *EPSL* 500, 15-27, <https://dx.doi.org/10.1016/j.epsl.2018.07.035>
7. Crowhurst, S.J., Pälike, H., Rickaby, R.E.M. (2018), Carbonate ions, orbits and Mg/Ca at ODP 1123, *Geochimica et Cosmochimica Acta* 236, 384-398, <https://dx.doi.org/10.1016/j.gca.2018.03.013>
8. Vahlenkamp, M. et al. (2018), Astronomically paced changes in deep-water circulation in the western North Atlantic during the middle Eocene, *EPSL* 484, 329-340, <https://dx.doi.org/10.1016/j.epsl.2017.12.016>.
9. Boulila, S. et al. (2018), Towards a robust and consistent middle Eocene astronomical timescale, *EPSL* 486, 94-107, <https://dx.doi.org/10.1016/j.epsl.2018.01.003>.
10. Gutjahr, M., Ridgwell, A., Sexton, P.F., Anagnostou, E., Pearson, P.N., Pälike, H., Norris, R.D., Thomas, E., Foster, G.L. (2017), Very large release of mostly volcanic carbon during the Palaeocene-Eocene Thermal Maximum, *Nature* 548(7669), 573-, <https://dx.doi.org/10.1038/nature23646>
11. Chalk, T.B. et al. (2017), Causes of ice age intensification across the Mid-Pleistocene Transition, *Proceedings of the National Academy of Sciences of the United States of America* 114(50), 13114-13119, <https://dx.doi.org/10.1073/pnas.1702143114>.
12. De Vleeschouwer, D., Dunlea, A. G., Auer, G., Anderson, C. H., Brumsack, H., de Loach, A., ... Pälike, H. (2017). Quantifying K, U, and Th contents of marine sediments using shipboard natural gamma radiation spectra measured on DV JOIDES Resolution. *Geochemistry, Geophysics, Geosystems*, 18, 1–12. <https://doi.org/10.1002/2016GC006715>
13. De Vleeschouwer, D., Vahlenkamp, M., Crucifix, M., & Pälike, H. (2017). Alternating Southern and Northern Hemisphere climate response to astronomical forcing during the past 35 m.y. *Geology*, (4), G38663.1. <https://doi.org/10.1130/G38663.1>
14. Liebrand, D., de Bakker, A. T. M., Beddow, H. M., Wilson, P. A., Bohaty, S. M., Ruessink, G., ... Lourens, L. J. (2017). Evolution of the early Antarctic ice ages. *Proceedings of the National Academy of Sciences*, 1–6. <https://doi.org/10.1073/pnas.1615440114>
15. Liebrand, D., Beddow, H. M., Lourens, L. J., Pälike, H., Raffi, I., Bohaty, S. M., ... Batenburg, S. J. (2016). Cyclostratigraphy and eccentricity tuning of the early Oligocene through early Miocene (30.1– 17.1 Ma): *Cibicides mundulus* stable oxygen and carbon isotope records from Walvis Ridge Site 1264. *Earth and Planetary Science Letters*, 450, 392–405. <https://doi.org/10.1016/j.epsl.2016.06.007>
16. Martinez, M., Kotov, S., De Vleeschouwer, D., Pas, D., & Pälike, H. (2016). Testing the impact of stratigraphic uncertainty on spectral analyses of sedimentary series. *Climate of the Past*, 12(9), 1765–1783. <https://doi.org/10.5194/cp-12-1765-2016>
17. Sinnesael, M., Zivanovic, M., De Vleeschouwer, D., Claeys, P., & Schoukens, J. (2016). Astronomical component estimation (ACE v.1) by time-variant sinusoidal modeling. *Geoscientific Model Development*, 9(10), 3517–3531. <https://doi.org/10.5194/gmd-9-3517-2016>
18. von der Heydt, A. S., Dijkstra, H. A., van de Wal, R. S. W., Caballero, R., Crucifix, M., Foster, G. L., ... Ziegler, M. (2016). Lessons on Climate Sensitivity From Past Climate Changes. *Current Climate Change Reports*, 148–158. <https://doi.org/10.1007/s40641-016-0049-3>
19. Martinez, M., & Dera, G. (2015). Orbital pacing of carbon fluxes by a 9-My eccentricity cycle during the Mesozoic. *Proceedings of the National Academy of Sciences*, 112(41), 12604–12609. <https://doi.org/10.1073/pnas.1419946112>