

Thomas Kelly

All Publications

- Fender, C. K., Kelly, T. B., Guidi, L., Ohman, M. D., Smith, M. C., and Stukel, M. R. (2019). Investigating Particle Size-Flux Relationships and the Biological Pump Across a Range of Plankton Ecosystem States From Coastal to Oligotrophic. *Front. Mar. Sci.* 6, 603. doi:[10.3389/fmars.2019.00603](https://doi.org/10.3389/fmars.2019.00603).
- Gerard, T., Lamkin, J. T., Kelly, T. B., Knapp, A. N., Laiz-Carrión, R., Malca, E., et al. (2021). Bluefin Larvae in Oligotrophic Ocean Foodwebs, Investigations of Nutrients to Zooplankton: Overview of the BLOOFINZ-Gulf of Mexico program. *Journal of Plankton Research*.
- Kahru, M., Goericke, R., Kelly, T. B., and Stukel, M. R. (2019). Satellite estimation of carbon export by sinking particles in the California Current calibrated with sediment trap data. *Deep Sea Research Part II: Topical Studies in Oceanography*, 104639. doi:[10.1016/j.dsr2.2019.104639](https://doi.org/10.1016/j.dsr2.2019.104639).
- Kelly, T. B., Davison, P. C., Goericke, R., Landry, M. R., Ohman, M. D., and Stukel, M. R. (2019). The Importance of Mesozooplankton Diel Vertical Migration for Sustaining a Mesopelagic Food Web. *Frontiers in Marine Science* 6. doi:[10.3389/fmars.2019.00508](https://doi.org/10.3389/fmars.2019.00508).
- Kelly, T. B., Goericke, R., Kahru, M., Song, H., and Stukel, M. R. (2018). CCE II: Spatial and interannual variability in export efficiency and the biological pump in an eastern boundary current upwelling system with substantial lateral advection. *Deep Sea Research Part I: Oceanographic Research Papers* 140, 14–25. doi:[10.1016/j.dsr.2018.08.007](https://doi.org/10.1016/j.dsr.2018.08.007).
- Kelly, T. B., Knapp, A. N., Landry, M. R., Selph, K. E., Shropshire, T. A., Thomas, R., et al. (2021). Lateral Advection Supports the Oligotrophic Ecosystem of the Open-Ocean Gulf of Mexico. *Nature Communications*.
- Kranz, S. A., Wang, S., Kelly, T. B., Stukel, M. R., Goericke, R., Landry, M. R., et al. (2020). Lagrangian Studies of Marine Production: A Multimethod Assessment of Productivity Relationships in the California Current Ecosystem Upwelling Region. *J. Geophys. Res. Oceans* 125. doi:[10.1029/2019JC015984](https://doi.org/10.1029/2019JC015984).
- Morrow, R. M., Ohman, M. D., Goericke, R., Kelly, T. B., Stephens, B. M., and Stukel, M. R. (2018). CCE V: Primary production, mesozooplankton grazing, and the biological pump in the California Current Ecosystem: Variability and response to El Niño. *Deep Sea Research Part I: Oceanographic Research Papers* 140, 52–62. doi:[10.1016/j.dsr.2018.07.012](https://doi.org/10.1016/j.dsr.2018.07.012).
- Morton, P. L., Landing, W. M., Shiller, A. M., Moody, A., Kelly, T. D., Bizimis, M., et al. (2019). Shelf Inputs and Lateral Transport of Mn, Co, and Ce in the Western North Pacific Ocean. *Front. Mar. Sci.* 6, 591. doi:[10.3389/fmars.2019.00591](https://doi.org/10.3389/fmars.2019.00591).
- Selph, K. E., Swalethorp, R., Stukel, M. R., Kelly, T. B., Knapp, A. N., Fleming, K., et al. (2021). Phytoplankton community composition and biomass in the oligotrophic Gulf of Mexico. *Journal of Plankton Research* 00, 20.
- Stukel, M. R., Décima, M., and Kelly, T. B. (2018). A new approach for incorporating ^{15}N isotopic data into linear inverse ecosystem models with Markov Chain Monte Carlo sampling. *PLOS ONE* 13, e0199123. doi:[10.1371/journal.pone.0199123](https://doi.org/10.1371/journal.pone.0199123).

- Stukel, M. R., Gerard, T., Kelly, T. B., Knapp, A. N., Laiz-Carrión, R., Lamkin, J. T., et al. (2021a). Plankton food webs of the Gulf of Mexico spawning grounds of Atlantic Bluefin tuna. *Journal of Plankton Research*.
- Stukel, M. R., and Kelly, T. B. (2019). The carbon: ^{234}Th ratios of sinking particles in the California current ecosystem 2: Examination of a thorium sorption, desorption, and particle transport model. *Marine Chemistry* 211, 37–51. doi:[10.1016/j.marchem.2019.03.005](https://doi.org/10.1016/j.marchem.2019.03.005).
- Stukel, M. R., Kelly, T. B., Aluwihare, L. I., Barbeau, K. A., Goericke, R., Krause, J. W., et al. (2019a). The carbon: ^{234}Th ratios of sinking particles in the California current ecosystem 1: relationships with plankton ecosystem dynamics. *Marine Chemistry*. doi:[S0304420318302615](https://doi.org/S0304420318302615).
- Stukel, M. R., Kelly, T. B., Landry, M. R., Selph, K. E., and Swalethorp, R. (2021b). Sinking carbon, nitrogen, and pigment flux within and beneath the euphotic zone in the oligotrophic, open-ocean Gulf of Mexico. *Journal of Plankton Research* 00, 17.
- Stukel, M. R., Ohman, M. D., Kelly, T. B., and Biard, T. (2019b). The Roles of Suspension-Feeding and Flux-Feeding Zooplankton as Gatekeepers of Particle Flux Into the Mesopelagic Ocean in the Northeast Pacific. *Frontiers in Marine Science*. doi:[10.3389/fmars.2019.00397](https://doi.org/10.3389/fmars.2019.00397).
- Tamburini, F., Kelly, T. B., Weerapana, E., and Byers, J. A. (2014). Paper to Plastics: An Interdisciplinary Summer Outreach Project in Sustainability. *Journal of Chemical Education* 91, 1574–1579. doi:[10.1021/ed400892t](https://doi.org/10.1021/ed400892t).
- Wang, S., Kranz, S. A., Kelly, T. B., Song, H., Stukel, M. R., and Cassar, N. (2020). Lagrangian Studies of Net Community Production: The Effect of Diel and Multiday Nonsteady State Factors and Vertical Fluxes on O_2/Ar in a Dynamic Upwelling Region. *J. Geophys. Res. Biogeosci.* 125. doi:[10.1029/2019JG005569](https://doi.org/10.1029/2019JG005569).
- Yingling, N., Kelly, T. B., Shropshire, T. A., Landry, M. R., Selph, K. E., Knapp, A. N., et al. (2021). Taxon-specific phytoplankton growth, nutrient utilization, and light limitation in the oligotrophic Gulf of Mexico. *Journal of Plankton Research*. doi:[10.1101/2021.03.01.433426](https://doi.org/10.1101/2021.03.01.433426).