

CBNERR-VA Publications

Chesapeake Bay National Estuarine Research Reserve in Virginia

Virginia Institute of Marine Science, William & Mary

Peer-Reviewed Publications

Turner, J. S., St-Laurent, P., Friedrichs, M. A. M., & Friedrichs, C. T. (2021). Effects of reduced shoreline erosion on Chesapeake Bay water clarity. *Science of The Total Environment*, 769, 145157. <https://doi.org/10.1016/j.scitotenv.2021.145157>

Knobloch, A. L. J., Reay, W. G., & Canuel, E. A. (2021). Carbon pools differ in source and temporal patterns in a tidal marsh creek system of the York River, VA estuary. *Estuaries and Coasts*. <https://doi.org/10.1007/s12237-020-00878-y>

Fall, K. A., Friedrichs, C. T., Massey, G. M., Bowers, D. G., & Smith, S. J. (2021). The importance of organic content to fractal floc properties in estuarine surface waters: Insights from video, LISST, and pump sampling. *Journal of Geophysical Research: Oceans*, 126(1). <https://doi.org/10.1029/2020jc016787>

Perkey, D. W., Smith, S. J., Fall, K. A., Massey, G. M., Friedrichs, C. T., & Hicks, E. M. (2020). Impacts of muddy bed aggregates on sediment transport and management in the tidal James River, VA. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, 146(5), 04020028. [https://doi.org/10.1061/\(asce\)ww.1943-5460.0000578](https://doi.org/10.1061/(asce)ww.1943-5460.0000578)

Johnson, A. J., Shields, E. C., Kendrick, G. A., & Orth, R. J. (2020). Recovery dynamics of the seagrass *Zostera marina* following mass mortalities from two extreme climatic events. *Estuaries and Coasts*, 44(2), 535–544. <https://doi.org/10.1007/s12237-020-00816-y>

Killberg-Thoreson, L., Baer, S. E., Sipler, R. E., Reay, W. G., Roberts, Q. N., & Bronk, D. A. (2020). Seasonal nitrogen uptake dynamics and harmful algal blooms in the York River, Virginia. *Estuaries and Coasts*. <https://doi.org/10.1007/s12237-020-00802-4>

Nunez, K., Zhang, Y. J., Herman, J., Reay, W., & Hershner, C. (2020). A multi-scale approach for simulating tidal marsh evolution. *Ocean Dynamics*, 70(9), 1187–1209. <https://doi.org/10.1007/s10236-020-01380-6>

Yeates, A. G., Grace, J. B., Olker, J. H., Guntenspergen, G. R., Cahoon, D. R., Adamowicz, S., Anisfeld, S. C., Barrett, N., Benzecry, A., Blum, L., Christian, R. R., Grzyb, J., Hartig, E. K., Leo, K. H., Lerberg, S., Lynch, J. C., Maher, N., Megonigal, J. P., Reay, W., ... Warren, S. (2020). Hurricane Sandy effects on coastal marsh elevation change. *Estuaries and Coasts*, 43(7), 1640–1657. <https://doi.org/10.1007/s12237-020-00758-5>

Bowers, D. G., Roberts, E. M., Hogue, A. M., Fall, K. A., Massey, G. M., & Friedrichs, C. T. (2020). Secchi disk measurements in turbid water. *Journal of Geophysical Research: Oceans*, 125(5). <https://doi.org/10.1029/2020jc016172>

Shadwick, E. H., Friedrichs, M. A. M., Najjar, R. G., Meo, O. A. D., Friedman, J. R., Da, F., & Reay, W. G. (2019). High-frequency CO₂ system variability over the winter-to-spring transition in a coastal plain estuary. *Journal of Geophysical Research: Oceans*, 124(11), 7626–7642. <https://doi.org/10.1029/2019jc015246>

Turner, J. S., Kellogg, M. L., Massey, G. M., & Friedrichs, C. T. (2019). Minimal effects of oyster aquaculture on local water quality: Examples from southern Chesapeake Bay. *PLOS ONE*, 14(11), e0224768. <https://doi.org/10.1371/journal.pone.0224768>

Munden, M., & Nuss, S. (2019). Assessing short-term learning and long-term impacts of non-formal. *Current: The Journal of Marine Education*, 33(2), 20. <https://doi.org/10.5334/cjme.33>

Sharpe, K., & Nuss, S. M. (2019). Assessing resiliency in the face of sea-level rise. *Current: The Journal of Marine Education*, 33(2), 9. <https://doi.org/10.5334/cjme.31>

Tarpley, Harris, Friedrichs, & Sherwood. (2019). Tidal variation in cohesive sediment distribution and sensitivity to flocculation and bed consolidation in an idealized, partially mixed estuary. *Journal of Marine Science and Engineering*, 7(10), 334. <https://doi.org/10.3390/jmse7100334>

Shields, E. C., Parrish, D., & Moore, K. (2019). Short-term temperature stress results in seagrass community shift in a temperate estuary. *Estuaries and Coasts*, 42(3), 755–764. <https://doi.org/10.1007/s12237-019-00517-1>

Shields, E., Moore, K., & Parrish, D. (2018). Adaptations by *Zostera marina* dominated seagrass meadows in response to water quality and climate forcing. *Diversity*, 10(4), 125. <https://doi.org/10.3390/d10040125>

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