

## Troy D. Hill, Biologist, in EPA's National Health and Environmental Effects Research Laboratory

Atlantic Ecology Division  
Mailing Address

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**Area of Expertise:** My research explores how human activities affect the ecology and biogeochemistry of coastal systems. Current projects examine how coastal wetlands respond to a broad range of ecological stressors, including oil spills, sea level rise, climate warming, increased CO<sub>2</sub>, and nutrient pollution. I am particularly interested in interactions between stressors, and understanding how shifts in plant and microbial communities lead to changes in ecological functions, such as carbon storage and nitrogen interception, that benefit human communities.

### Education:

- Ph.D., Yale University, New Haven, CT; Forestry and Environmental Studies, 2015
- M.E.Sc., Yale University School of Forestry and Environmental Studies, New Haven, CT; Environmental Science, 2008
- B.A., Clark University, Worcester, MA; Environmental Science and Policy (minor: Economics), 2006

### Professional Experience ([Several links exit this site](#)):

- Biologist, U.S. Environmental Protection Agency, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, 2015-present
- Postdoctoral Research Associate, Louisiana Universities Marine Consortium, 2015
- Anisfeld, S. C., T. D. Hill, and D. R. Cahoon. 2016. [Elevation dynamics in a restored versus a submerging salt marsh in Long Island Sound](#). *Estuarine, Coastal and Shelf Science* **170**: 145-154.
- Schultz, R. A., S. C. Anisfeld, and T. D. Hill. 2016. [Submergence and herbivory as divergent causes of marsh loss in Long Island Sound](#). *Estuaries and Coasts*. **39**(5).
- Hill, T. D. and S. C. Anisfeld. 2015. [Coastal wetland response to sea level rise in Connecticut and New York](#). *Estuarine, Coastal and Shelf Science* **163**: 185–193.
- Kemp, A. C., A. D. Hawkes, J. P. Donnelly, C. H. Vane, B. P. Horton, T. D. Hill, S. C. Anisfeld, A. C. Parnell, and N. Cahill. 2015. [Relative sea-level change in Connecticut \(USA\) during the last 2200 years](#). *Earth and Planetary Science Letters* **428**: 217–229.
- Anisfeld, S. C. and T. D. Hill. 2012. [Fertilization effects on elevation change and belowground carbon balance in a Long Island Sound tidal marsh](#). *Estuaries and Coasts* **35**(1): 201-211.

- Melillo, J. M., S. Butler, J. Johnson, J. Mohan, P. A. Steudler, H. Lux, E. Burrows, F. Bowles, R. Smith, L. Scott, C. Vario, T. Hill, A. J. Burton, Y. Zhou, and J. Tang. 2011. [Soil warming, carbon-nitrogen interactions and forest carbon budgets](#). *Proceedings of the National Academy of Sciences* **108**(23): 9508-9512.