

Curriculum Vitae - Jonathan D. Woodruff

Department of Geosciences · University of Massachusetts · Amherst, MA 01003

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Education

2004-09 Ph.D., Geology & Geophysics, MIT/WHOI Joint Program
1997-99 M.S., Applied Ocean Physics & Engineering, MIT/WHOI Joint Program
1992-96 B.S.C.E., Civil & Environmental Engineering, Tufts University
B.S., Environmental Studies, Tufts University

Professional Experience

2023-present Leadership Circle, Center for Braiding Indigenous Knowledges and Science, Amherst, MA
2021-present Co-Director, Northeast Climate Adaptation Science Center, Amherst, MA
2021-present Professor, University of Massachusetts, Amherst, MA
2017-2021 Summer Visiting Scholar, Univ. of Maine, Darling Marine Center, Walpole, ME
2015-2021 Associate Professor, University of Massachusetts, Amherst, MA
2016 Fulbright Scholar, Kyushu University, Fukuoka, Japan
2009-2015 Assistant Professor, University of Massachusetts, Amherst, MA
2004-2008 Graduate Student, Woods Hole Oceanographic Institution, Woods Hole, MA
2002-2004 Physics and Oceanography Teacher, Newburyport High School, Newburyport, MA
2000-2002 Coastal Engineer, Woods Hole Group Inc., Falmouth, MA
1996-2000 Research Associate, Woods Hole Oceanographic Institution, MA
1995-1996 Field Technician, U.S. Geological Survey, Augusta, ME

Research Expertise

Sediment and Coastal Dynamics, Flood Hazards, Tidal Wetlands, Post-Glaciaded Shorelines, Estuaries

Grants, Fellowships and Awards

2023-2028 **(Co-PI)** National Science Foundation (NSF) Science and Technology Center (STC), *Center for Braiding Indigenous Knowledges and Science*, \$29,781,415

2021-2025 **(Lead-PI)** Department of the Interior (DOI), *Host of the Northeast Climate Adaptation and Science Center*, \$4,499,998-UMass

2022-2025 **(Co-PI)** U.S. Geological Survey (USGS), *Effects of urban coastal armoring on salt marsh sediment supplies and resilience to climate change*, \$399,843.53-UMass

2022-2023 **(Lead-PI)** USGS/FWS/DOE, *Science to Support Marsh Conservation and Management Decisions in the Northeastern United States*, \$240,173.35-UMass

2020-2023 **(Co-PI)** U.S. Geological Survey (USGS), *Linking unvegetated to vegetated marsh ratio (UVVR) to causes of marsh change*, \$176,609-UMass

2022-2024 (Co-PI) USGS *Northeast Climate Adaptation Science Center: Climate Fellows Research Initiative*, \$179,749 - UMass

2020-2022 **(Co-PI)** U.S. Dept of Agriculture (USDA), Natural Resources Conservation Service (NRCS) *Regional Scaling of Blue Carbon Measurements with Lidar-derived Geomorphic Tools*, \$289,566-UMass

- 2020-2022 **(Lead-PI)** U.S. Geological Survey (USGS), *Sedimentary Controls on Tidal Marsh Integrity and Resilience*, \$238,036-UMass
- 2019-2021 **(Senior Personnel)** National Science Foundation (NSF), NNA Track [2]: *Developing Arctic Village Resilience to Future Water Cycle, River Systems, and Coastal Change*, \$246,802-UMass
- 2016-2020 **(Co-PI)** National Oceanic and Atmospheric Administration, National Estuarine Research Reserve System Science Collaborative, *Quantifying effects of dam removal on sediment transport and wetland sustainability in the Hudson River estuary*
\$714,000 (\$354,000-UMass)
- 2016-2020 **(Co-PI)** National Science Foundation, Geomorphology and Landuse Dynamics, *Collaborative Research: Tsunamis and Tropical Storms, Sediment Dynamics and Products*,
\$510,000 (\$179,000-UMass)
- 2017-2019 **(Lead-PI)** National Science Foundation (NSF), Earth Sciences, Instrument and Facilities Grant, *Acquisition of an Automated Laser Diffraction Particle Size Analyzer*,
\$89,810-UMass
- 2016-2019 **(advisor-PI)** National Aeronautics and Space Administrations (NASA), *Modeling the Relative Impacts of Changing Storm Climatology, Sea Level Rise, and Shoreline Evolution on Extreme Flooding: A Boston Case Study*, - \$120,000-UMass
- 2014-2019 **(co-PI)** Dept. of the Interior, Bureau of Ocean Energy Management (DOI/BOEM): Hurricane Sandy Coastal Recovery and Resiliency Resource Fund, *Sand Resource Needs Assessment on Critical Beaches along the Post-Glaciated Coastlines of Massachusetts*, \$400,000-UMass
- 2012-2016 **(Lead-PI)** National Science Foundation, Geomorphology and Landuse Dynamics, *Collaborative Research: Sediment Transport and Storage in Tidal Floodplain Waterbodies*,
\$333,000 (UMass-\$237,233)
- 2015-2016 **(Co-PI)** Dalio Explorer Fund, *Northeast Hurricane Research*,
\$50,000-UMass (WHOI subcontract)
- 2013-2014 **(Lead-PI)** Hudson River Foundation, *How unique was Hurricane Sandy? Reconstructing a millennial-scale flooding history of New York Harbor from costal pond sediments*,
\$16,000-UMass
- 2012-2013 **(Lead-PI)** Hudson River Foundation, *Expedited Proposal: Sedimentary Signatures of Hurricane Sandy*, \$9,966
- 2012-2013 **(Co-PI)** Keck Geology Consortium, *Evaluating Extreme Weather Response in the Connecticut River Floodplain Environment*, \$58,750
- 2012-2013 **(Lead-PI)** Springfield Water & Sewer, *Sedimentary Analyses and Bathymetric Mapping of Cobble Mountain Reservoir*, \$12,812
- 2011-2012 **(Lead-PI)** National Science Foundation, Geomorphology and Landuse Dynamics (RAPID), *Characterizing floodplain deposition from Hurricane Irene along the Lower Connecticut River*, \$21,493
- 2011-2012 **(Lead-PI)** Risk Prediction Initiative, Bermuda Institute of Ocean Sciences, *Reconstructing past typhoon occurrences for the southern coast of Japan using coastal sediments*, \$49,662
- 2011-2012 **(Lead-PI)** Water Resources Institutes Program, United States Geological Survey, *Assessing human impacts on sediment and contaminant trapping within Oxbow Lake, MA*, \$5,000

- 2010-2011 **(Co-PI)** National Science Foundation, Earth Sciences, Instrument and Facilities Grant, *Purchase of an X-Ray Core Scanner for Research in Paleoclimatology and Global Change*, \$388,976
- 2010-2011 **(Co-PI)** National Science Foundation, Earth Sciences, Instrument and Facilities Grant, *Upgrade of Department of Geosciences Digital Mapping and Modeling Laboratory at the Univ. of Massachusetts Amherst*, \$74,999
- 2010-2011 **(Lead-PI)** National Geographic Society, Committee for Research and Exploration, *Reconstructing the 13th Century Kamikaze Typhoons from Coastal Overwash Deposits*, \$17,866
- 2010-2011 **(Lead-PI)** UMass School for Marine Science Grant, *Hydrographic and Numerical Modeling Assessment for Sediment and Contaminant Trapping in Floodplain Tidal Pond*, \$12,944
- 2009-2011 **(Co-PI)** National Science Foundation, Paleo Perspectives on Climate Change, *Collaborative Research: Decadal Scale Patterns in Hurricane Activity Over the Last Several Millennia*, \$310,610 (\$57,960-UMass)
- 2009-2010 **(Lead-PI)** Faculty Research Grant/Healey Endowment Grant, *Sediment and Pollution Storage in the Lower Connecticut River and Estuary*, \$13,912

Publications:

2023:

51. Yellen, B., **Woodruff, J.D.**, Baranes, H.E., Engelhart, S.E., Geyer, R. and Randall, N. (2022), Salt Marsh Response to Inlet Switch-Induced Increases in Tidal Inundation. *Journal of Geophysical Research: Earth Surface*, <http://doi.org/10.1029/2022JF006815>

50. Aro, C., Kashima, K., Baranes, H., Ladlow, C., Katsuki, K., **Woodruff, J.D.** (2023), Fossil diatom assemblage changes due to paleoenvironment change, tsunamis, and typhoon in southern Japan, *Island Arc*, <https://doi-org.silk.library.umass.edu/10.1111/iar.12476>

2022:

49. **(Student Author)** McKeon, K., **Woodruff, J.D.**, Yellen, B., Ralston, D. Fernald, S., (2022) Invasive water chestnut hinders tidal wetland development, *Earth Surface Processes and Landforms*, <https://doi.org/10.1002/esp.5323>

48. **(Student Author)** Baranes, H.E., **Woodruff, J.D.**, Geyer, W.R., Yellen, B.C., Richardson, J.B., Griswold, F. (2022) Sources, Mechanisms, and Timescales of Sediment Delivery to a New England Salt Marsh, *Journal of Geophysical Research: Earth Surface*, <https://doi.org/10.1029/2021JF006478>

47. Cooke, M. L., Baranes, H., Castañeda, I. S., **Woodruff, J. D.**, and Boutt, D. F. (2022), After GRExit: Reducing bias in geoscience graduate admissions, *Eos*, 103, <https://doi.org/10.1029/2022EO220285>

46. Winkler, T.S., van Hengstrum, P.J., Donnelly, J.P., Wallace, E.J., D'Entremont, N.D., Hawkes, A.D., Maio, C.V., Sullivan, R.M., **Woodruff, J.D.**, (2022) Oceanic passage of hurricanes across Cay Sal Bank in The Bahamas over the last 530 years, *Marine Geology*, 106653, <https://doi.org/10.1016/j.margeo.2021.106653>

2021:

45. **Woodruff, J.D.**, Venti, N., Mabee, S., DiTroia, A. and Beach, D., (2021). Grain size and beach face slope on paraglacial beaches of New England, USA. *Marine Geology*, p.106527.
44. Yellen, B., **Woodruff, J.D.**, Ladlow, C., Ralston, D.K., Fernald, S. and Lau, W., (2021). Rapid tidal marsh development in anthropogenic backwaters. *Earth Surface Processes and Landforms*. 46:5 pp. 54-572, DOI: 10.1002/esp.5045
43. Ralston, D.K., Yellen, B. and **Woodruff, J.D.**, (2021). Watershed Suspended Sediment Supply and Potential Impacts of Dam Removals for an Estuary. *Estuaries and Coasts*, 44(5), pp.1195-1215.
42. Castagno, K.A., Donnelly, J.P. and **Woodruff, J.D.**, (2021). Grain-Size Analysis of Hurricane-Induced Event Beds in a New England Salt Marsh, Massachusetts, USA. *Journal of Coastal Research*, 37(2), pp.326-335.
41. Castagno, K.A., Donnelly, J.P., and **Woodruff, J.D.** (2021). Storm processes and salt marsh dynamics, in *Marshes: Function, Dynamics and Stresses*, Eds. Fitzgerald, D. and Hughes, Z., Cambridge Univ. Press. ISBN: 9781316888933
40. Wallace, E.J., Donnelly, J.P., van Hengstum, P.J., Winkler, T.S., Dizon, C., LaBella, A., Lopez, I., D'Entremont, N.E., Sullivan, R.M., **Woodruff, J.D.**, Hawkes, A.D., Maio, C., (2021), Regional shifts in paleohurricane activity over the last 1500 years derived from blue hole sediments offshore of Middle Caicos Island, *Quaternary Science Reviews*, 268, p.107126, <https://doi.org/10.1016/j.quascirev.2021.107126>
39. Wallace, E.J., Donnelly, J.P., van Hengstum, P.J., Winkler, T.S., McKeon, K., MacDonald, D., d'Entremont, N.E., Sullivan, R.M., **Woodruff, J.D.**, Hawkes, A.D. and Maio, C., (2021). 1,050 years of hurricane strikes on Long Island in The Bahamas. *Paleoceanography and Paleoclimatology*, 36(3), p.e2020PA004156.

2020:

38. **(Student Author)** Baranes, H.E., **Woodruff, J.D.**, Talke, S.A., Kopp, R.E., Ray, R.D. and DeConto, R.M., 2020. Tidally driven interannual variation in extreme sea level frequencies in the Gulf of Maine. *Journal of Geophysical Research: Oceans*, 125(10), p.e2020JC016291.
37. Ralston, D.K., Yellen, B., **Woodruff, J.D.** and Fernald, S., (2020). Turbidity hysteresis in an estuary and tidal river following an extreme discharge event. *Geophysical Research Letters*, 47(15), p.e2020GL088005.
36. Rodysill, J.R., Donnelly, J.P., Sullivan, R., Lane, P.D., Toomey, M., **Woodruff, J.D.**, Hawkes, A.D., MacDonald, D., d'Entremont, N., McKeon, K. and Wallace, E., (2020). Historically unprecedented Northern Gulf of Mexico hurricane activity from 650 to 1250 CE. *Scientific reports*, 10(1), pp.1-17.
35. Wallace, D. and **Woodruff, J.D.**, (2020) Experimental and Numerical Models of Fine Sediment Transport by Tsunamis, in "Geological Records of Tsunamis and other Extreme Waves, 1st Edition", Editors Brill, D., Engel, M., Garrett, E., May, M., & Pilarczyk, J., pp 491-509, Elsevier, ISBN: 978-0-12-815686-5
34. Dow, S., Snyder, N.P., Ouimet, W.B., Martini, A.M., Yellen, B., **Woodruff, J.D.** and Newton, R.M. (2020), Estimating the timescale of fluvial response to anthropogenic disturbance using two generations of dams on the South River, Massachusetts, USA, *Earth Surface Processes and Landforms*, doi: 10.1002/esp.4886

2019

33. Contributing Author, (2019), Intergovernmental Panel on Climate Change (IPCC), Special Report on the Ocean and Cryosphere in a Changing Climate: Chapter 4 on Sea Level Rise and Implications for Low Lying Islands, Coasts and Communities, Cambridge University Press
32. **(Student Author)** Ladlow, C., **Woodruff, J.D.**, Cook, T.L., Baranes, H., and Kanamaru, K. (2019), A fluvially derived flood deposit dating to the Kamikaze typhoons near Nagasaki, Japan, *Natural Hazards*, doi: 10.1007/s11069-019-03777-z

2018

31. **Woodruff, J.D.**, (2018), Future of tidal wetlands depends on coastal management (News&Views). *Nature*, 561(7722):183-185: doi: 10.1038/d41586-018-06190-x
30. Talke, S.A., Kemp, A.C., and **Woodruff, J.D.**, (2018), Relative Sea Level, Tides, and Extreme Water Levels in Boston Harbor From 1825 to 2018. *Journal of Geophysical Research: Oceans*, DOI: 10.1029/2017JC013645
29. **(Student Author)** Baranes, H., **Woodruff, J.D.**, Loveless, J.P., Hyodo, M. (2018), Interseismic Coupling-Based Earthquake and Tsunami Scenarios for the Nankai Trough. *Geophysical Research Letters*, 45(7): pp. 2986-1994

2017

28. **(Student Author)** Yellen, B., **Woodruff, J.D.**, Ralston, D., MacDonald, D., and Jones, D., (2017), Salt wedge dynamics lead to enhanced sediment trapping within side embayments in high-energy estuaries. *Journal of Geophysical Research – Oceans*, 122(3): pp. 2226-2242, DOI: 10.1002/2016JC012595

2016

27. **(Student Author)** Baranes, H., **Woodruff, J.D.**, Wallace, D., Kanamaru, K., and Cook, T., (2016), Sedimentological record of the C.E. 1707 Hoi An Tsunami from the Bungo Channel, southwestern Japan. *Natural Hazards*, DOI 10.1007/s11069-016-2498-3
26. **(Student Author)** Brandon, C., **Woodruff, J.D.**, Donnelly, J.P., and Orton, P., (2016), Increased overwash by storms following European disturbance of oyster beds in New York Harbor, *Earth Surface Processes and Landforms*, DOI: 10.1002/esp.3931
25. **(Student Author)** Yellen, B., **Woodruff, J.D.**, Cook, T., Newton, B., (2016), Historically unprecedented erosion from tropical storm Irene due to high antecedent precipitation. *Earth Surface Processes and Landforms* DOI:10.1002/2015GL064436
24. Toomey, M., **Woodruff, J.D.**, Donnelly, J.P., Aston, A., Perron, J. T., (2016), Seismic evidence of glacial age river incision into the Tahaa barrier reef, French Polynesia. *Marine Geology*, DOI:10.1016/j.margeo.2016.04.008

2015

23. **Woodruff, J.D.**, Kanamaru, K., Kundu, S, and Cook, T., (2015), Depositional Evidence for the Kamikaze Typhoons and Links to Changes in Typhoon Climatology. *Geology*, v. 43 (1), p. 91-94
-Geology Feature Article, Highlighted in Science Magazine

22. Cook, T., Yellen, B., **Woodruff, J.D.**, Miller, D., (2015), Contrasting Human versus Climate Impacts on Erosion. *Geophysical Research Letters*, v. 42, DOI:10.1002/2015GL064436
21. Donnelly, J.P., Hawkes, A.D., Lane, P., MacDonald, D., Shuman, B. N., Toomey, M.R., van Hengstum, P. J. and **Woodruff, J.D.**, (2015), Climate Forcing of Unprecedented Intense-Hurricane Activity in the Last 2,000 Years, *Earth's Future*, v. 3, pp. 49-65

2014

20. **(Student Author)** Brandon, C., **Woodruff, J.D.**, and Donnelly, J.P., (2014, Dec. 8), How Unique was Hurricane Sandy? Sedimentary Reconstructions of Extreme Flooding from New York Harbor. *Scientific Reports*, v. 4 DOI: 10.1038/srep07366
19. **(Student Author)** Yellen, B., **Woodruff, J.D.**, Kratz, L.N., Mabee, S.B., Morrison, J., Martini, A.M., (2014, Dec. 1), Source, Conveyance and Fate of Suspended Sediments Following Hurricane Irene. New England, USA. *Geomorphology*, v. 226 (1), p. 124-134
18. Wallace, D., **Woodruff, J.D.**, Anderson, J., and Donnelly, J.P., (2014), Palaeohurricane reconstructions along the Gulf of Mexico, Caribbean Sea, and western Atlantic Ocean margins. *Geological Society London, Special Publications*, v. 388, DOI: 10.1144/SP388.12
17. Donnelly, J.P., Anderson, J.B., Hawkes, A.D., Otvos, E.G., Toomey, M.R., van Hengstum, P.J., Wallace, D.J., **Woodruff, J.D.**, (2014), Comment: The geological legacy of Hurricane Irene: Implications for the fidelity of the paleo-storm record, *GSA Today*, p. e28-e29, DOI: 10.1130/GSATG205C.1

2013

16. **Woodruff, J.D.**, Irish, J., and Camargo, S., (2013), Coastal flooding by tropical cyclones and sea-level rise. *Nature*, v. 504, p. 44-52
15. **(Student Author)** Brandon, C., **Woodruff, J.D.**, Lane, P. and Donnelly, J.P., (2013), Constraining flooding conditions for prehistoric hurricanes from resultant deposits preserved in Florida sinkholes. *Geochemistry, Geophysics, Geosystems*, v. 14 (8), p. 2993-3008
14. Toomey, M.R., Donnelly, J.P., **Woodruff, J.D.**, (2013), Reconstructing mid-late Holocene cyclone variability in the Central Pacific using sedimentary records from Tahaa, French Polynesia. *Quaternary Science Reviews*, v. 77 (1), p. 181-189
13. **Woodruff, J.D.**, Martini, A.M., Naughton, T.N., Elzidani, E.Z., Kekacs, D., MacDonald, D., (2013), Off-river waterbodies on tidal rivers: Human impact on rates of infilling and the accumulation of pollutants. *Geomorphology*, v. 184, p. 38-50

2012

12. **Woodruff, J.D.**, Sriver, R.L., Lund, D.C., (2012), Tropical cyclone activity and western North Atlantic stratification over the last millennia: A comparative review with viable connections. *Journal of Quaternary Science*, v. 27 (4), p. 337-343

2011

11. Lane, P., Donnelly, J.P., **Woodruff, J.D.**, Hawkes, A.D., (2011), A decadal-resolved paleohurricane record archived in the late Holocene sediments of a Florida sinkhole. *Marine Geology*, v. 179, p. 105-119

2010

10. Boldt, K.V., Lane, P, **Woodruff, J.D.**, and Donnelly, J.P., (2010), Calibrating a sedimentary record of overwash from Southeastern New England using modeled historic hurricane surges. *Marine Geology*, v. 275: 127-139

2009

9. Mann, M.E., **Woodruff, J.D.**, Donnelly, J.P., and Zhang, Z., (2009), Atlantic hurricanes and climate over the past 1,500 years. *Nature*, v. 460, p. 880-883
8. **Woodruff, J.D.**, Donnelly, J.P., and Okusu, A., (2009), Exploring typhoon variability over the mid-to-late Holocene: evidence of extreme coastal flooding from Kamikoshiki, Japan. *Quaternary Science Reviews*. v. 28, p. 1774-1785
7. Done, J., Hu, H., Farmer, E.C., Yin, J., Bates, S., Frappier, A.B., Halkides, D.J. Kilbourne, K.H., Sriver, H., **Woodruff, J.D.**, (2009), The Thermohaline Circulation and Tropical Cyclones in Past, Present, and Future Climates. *Bulletin of the American Meteorological Society*, v. 90(7), p. 1015-1017

2008

6. **Woodruff, J.D.**, Donnelly, J.P. and Emanuel, K. , (2008), Assessing sedimentary records of paleo-hurricane activity using modeled hurricane climatology. *Geochemistry, Geophysics, Geosystems*, v. 9 (9), p. 1-12
5. **Woodruff, J.D.**, Donnelly, J.P., Mohrig, D. and Geyer, W.R., (2008), Reconstructing relative flooding intensities responsible for hurricane-induced deposits from Laguna Playa Grande, Vieques, Puerto Rico. *Geology*, v. 36, p. 391-394

2007

4. Donnelly, J.P. and **Woodruff, J.D.**, (2007), Intense hurricane activity over the past 5,000 years controlled by El Nino and the West African monsoon. *Nature*, v. 447, p. 465-468.

Pre-Ph.D.

3. **Woodruff, J.D.**, Geyer, W.R., Sommerfield, C.K., and Driscoll, N.W., (2001), Seasonal variation of sediment deposition in the Hudson River estuary. *Marine Geology*, v. 179, p. 105-119.
2. Geyer, W.R., **Woodruff, J.D.**, and Traykovski, P., (2001), Sediment transport and trapping in the Hudson River estuary. *Estuaries*, v. 24, p. 670-679.
1. Barton, D.A., **Woodruff, J.D.**, Bousquet, T.M., Purrish, A.M., (1997). Treatment system response to transient AOX (Adsorbable Organic Halogen) loadings. *Water Science and Technology*, vol 35(2-3) pp. 85-91

Invited Academic Seminars and Keynote Talks (since 2009)

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| 41. United South & Eastern Tribes Climate Resilience Camp, Virtual | July, 2021 |
| 40. Geological Society of America, Pardee Symposium, Virtual (Keynote) | Nov. 2020 |
| 39. Lamont-Doherty Earth Observatory, Columbia Univ., NY | Apr. 2019 |
| 38. University of Bergen, Dept. of Geosciences, Norway | Mar. 2019 |
| 37. University of Rhode Island, Coastal Resources Center, Narragansett, RI | Dec. 2018 |
| 36: Northeastern University, Marine Science Center, Nahant, MA | Nov. 2018 |
| 36: Virginia Academy of Science, Engineering, and Medicine, Norfolk, VI (Keynote) | Nov. 2018 |
| 35. Darling Marine Center, Univ. of Maine, Walpole, ME | July 2018 |

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| 34. Roger Tory Peterson Estuary Center, Old Lyme, CT | Apr. 2018 |
| 33. Bates College, Lewiston, ME | Feb. 2018 |
| 32. Asian Association for Quaternary Research, Jeju Island, S. Korea (Keynote) | Sept. 2017 |
| 31. Darling Marine Center, Univ. of Maine, Walpole, ME | Aug. 2017 |
| 30. College of the Atlantic, Mount Desert Island, ME | May 2017 |
| 29. Virginia Institute of Marine Science (VIMS), Gloucester Point, VA | Apr. 2017 |
| 28. East Carolina University/Université de Bordeaux, France (webinar) | Feb. 2017 |
| 27. Korean Institute of Geoscience and Mineral Resources (KIGAM), Daejeon, S. Korea | Nov. 2016 |
| 26. Japanese Agency of Marine Science and Technology (JAMSTEC), Yokohama, Japan | Aug. 2016 |
| 25. Geological Survey of Japan, Tsukuba, Japan | July 2016 |
| 24. Kyushu University, Dept. of Earth and Planetary Sciences, Fukuoka, Japan | Mar. 2016 |
| 23. Hudson River Foundation Board of Directors, New York City, NY, USA | July 2015 |
| 22. MIT Endicott Center, Boston, MA, USA | Jun. 2015 |
| 21. Tufts University, Department of Civil and Env. Engineering, Medford, MA, USA | Apr. 2015 |
| 20. School of Marine and Atm. Sciences, Stony Brook University, NY, USA | Nov. 2014 |
| 19. Ocean and Coastal Resource Consortium, Boston, MA, USA | Oct. 2014 |
| 18. Virginia Polytechnic Institute and State University, Blacksburg, VA, USA | Sept. 2014 |
| 17. Northeastern Climate Center, Amherst, MA, USA | Feb. 2014 |
| 16. Environmental & Water Resource Seminar Series, 5-College Consortium, MA, USA | Feb. 2014 |
| 15. Hudson River Foundation, New York City, NY, USA | Dec. 2013 |
| 14. University of Rhode Island, Graduate School of Oceanography, RI, USA | Apr. 2013 |
| 13. University of Maine, School of Earth and Climate Science, ME, USA | Apr. 2013 |
| 12. Bermuda Institute of Ocean Science, Risk Prediction Initiative, Bermuda | Oct. 2012 |
| 11. Cary Institute of Ecosystem Studies, Hudson River Foundation, NY, USA | Sept. 2012 |
| 10. University of New Hampshire, Department of Earth Sciences, NH, USA | Apr. 2012 |
| 9. Southern Connecticut State University, Earth Science Department, CT, USA | Apr. 2012 |
| 8. UMass-Dartmouth, School of Marine Science and Technology, MA, USA | Mar. 2012 |
| 7. Hudson River Foundation, NY, USA | Mar. 2012 |
| 6. Wesleyan University, Department of Earth and Environmental Sciences, CT, USA | June 2011 |
| 5. UConn, Department of Marine Sciences, Avery Point, CT, USA | Feb. 2011 |
| 4. University of Connecticut, Department of Geosciences, CT, USA | Oct. 2010 |
| 3. Woods Hole Oceanographic Institution, Coastal Ocean Fluid Dynamics Lab., MA, USA | July 2010 |
| 2. UMass-Dartmouth, School of Marine Science and Technology, MA, USA | Sept. 2009 |
| 1. Pennsylvania State University, Department of Geosciences, PE, USA | Feb. 2009 |

Published Abstracts (since 2009)

115. Woodruff, J., Autery, M., Baranes, H., Cook, T., Griswold, F., Hansen, L. and Yellen, B. (Apr. 28, 2023) Controls on Sediment Delivery to New England Salt Marshes and Resulting Limits on Future Resilience. *European Geophysical Union Meeting*, Vienna, Austria, Abstract# EGU23-10238
114. Peck, E., Walker, J., Ackerman, K., Besterman, A., Carr, J., Cook, T. Correll, M., Woodruff, J. (Apr. 28, 2023) An assessment of salt marsh vulnerability & restoration potential in the Northeastern United States using physical and ecological indicators. *European Geophysical Union Meeting*, Vienna, Austria, Abstract# EGU23-8653
113. Autery, M., Woodruff, J., Johnson, B., Peck, E., Wicks, R., and Ward, J.. Assessing tidal salt marsh elevation along the coast of Maine, United States using unmanned aerial systems (UAS) and stable carbon isotopes. (Apr. 28, 2023) *European Geophysical Union Meeting*, Vienna, Austria, Abstract# EGU23-16093.
112. Hansen, L.; Cook, T., Woodruff, J.D.; Griswold, F.; Autery, M., (Mar. 17, 2023): Investigating the Sediment Dynamics of New England Salt Marsh Pools at Reid State Park, Maine, *Northeastern Geological Society of America Meeting*, Abstract# 13-4

111. Yellen, B., Kahl, K., Papal, A., Woodruff, J. (June 2, 2022) Outstanding Questions Regarding Sediment Supply to Northeast US Tidal Marshes, *New England Estuarine Research Society Annual Meeting*, Salem, MA.
110. Turek, B., Yellen, B., Yu, Q., Teng, W. , Woodruff, J. (June 2, 2022) Spatial Variability of Soil Organic Carbon in Northeast Tidal Marshes Application of a Lidar and Remote Sensing-Based Model, *New England Estuarine Research Society Annual Meeting*, Salem, MA.
109. **(Student Author)** Griswold, F., **Woodruff, J.D.**, Yellen, B.C., Baranes, H., Cook, T., Autery, M., Hansen, L., Wenzcel, S., (Mar. 21, 2022) Sediment Sourcing and Accumulation on New England Salt Marshes, Paper No. T13-3-6, *Geological Society of America, Northeastern Regional Meeting*, Lancaster, PA
108. Turek, B.,Teng, W., Yellen, B.C., Yu, Q., **Woodruff, J. D.**, (Mar. 20, 2022) Estimation of Tidal Marsh Blue Carbon Storage Using a LIDAR and Optical Remote Sensing Based Model, Paper No. T13-3-7, *Geological Society of America, Northeastern Regional Meeting*, Lancaster, PA
107. Hansen, L., Cook, T., **Woodruff, J.D.**, Griswold, F., Autery, M., (Mar. 21, 2022) Evaluating the Role of Pools in the Sediment Dynamics of a New England Salt Marsh, Paper No. T13-21-5, *Geological Society of America, Northeastern Regional Meeting*, Lancaster, PA
106. Autery, M., Cook, T., **Woodruff, J. D.**, Yellen, B.C., Griswold, F.; Baranes, H., Hansen, L. (Mar. 21, 2022) Regional Variability of Accretion Rates in Northeastern USA Salt Marshes in Relation to Unvegetated to Vegetated Ratios (UVVR), Paper No. T13-21-6, *Geological Society of America, Northeastern Regional Meeting* , Lancaster, PA
105. **(Student Author)** Matos, P., **Woodruff, J.D.**, Yellen, B., and Griswold, F. (Dec. 14, 2021), Divergent mangrove responses to multiple human activities in Puerto Rico, Paper No. EP22C-05, *American Geophysical Union Fall Meeting*, New Orleans, LA
104. **(Student Author)** Baranes, H.E., Woodruff, J.D., Geyer, W.R., Yellen, B.C., Richardson, J.B. (Nov, 2021), Sources, mechanisms, and timescales of sediment delivery to a New England salt marsh, *Coastal Estuarine Research Federation Bi-Annual Conference*, virtual
103. **(Student Author)** McKeon, K., **Woodruff, J.D.**, Yellen, B., Ralston, D. Fernald, S., (Nov, 2021) Sedimentary Processes Influencing Divergent Wetland Evolution in the Hudson River Estuary, *Coastal Estuarine Research Federation Bi-Annual Conference*, virtual
102. Ajmani, A., Staudinger, M., **Woodruff, J.D.**, Holland, A.R., (Nov, 2021) Integrating Tribal perspectives on climate change into mainstream climate science education, *Coastal Estuarine Research Federation Bi-Annual Conference*, virtual
101. **(Student Author)** Griswold, F., Woodruff, J.D., Yellen, B., Matos-Llavona, P., McKeon, K., (Oct, 2021) Mangrove Integrity and Resulting Impacts of Hurricane Overwash, Paper No. 57-7, Geological Society of America Fall Meeting, Portland, OR.
100. **Woodruff, J.D.**, Mabee, S.B., Venti, N., DiTroia, A., Beach, D., (Dec. 16, 2020), Relationship of Grain Size to Slope in Bimodally Sourced Beaches, Paper No. EP066-08, *American Geophysical Union Fall Meeting*, Virtual
99. **(Student Author)** Griswold, F., **Woodruff, J.D.**, and Matos-Llavona, P.I., (Dec. 16, 2020), Mangrove Mortality after Hurricane Maria, Paper No. EP061-0017, *American Geophysical Union Fall Meeting*, Virtual

98. **(Student Author)** McKeon, K., **Woodruff, J.D.**, Yellen, B., and Fernald, S., (Dec. 16, 2020), Mechanisms of anthropogenic tidal marsh development in the Hudson River, Paper No. EP061-0018, *American Geophysical Union Fall Meeting*, Virtual
97. **(Student Author)** Matos-Llavona, P.I., Yellen, B., and **Woodruff, J.D.**, (Dec. 10, 2020), Reservoir Infilling Following Hurricane María in Puerto Rico Relative to Background Rates of Deposition, Paper No. EP027-05, *American Geophysical Union Fall Meeting*, Virtual
96. Winkler, T.S., van Hengstrum, P.J., Donnelly, J.P., Wallace, E.J., Maio, C., Albury, N.A., D'Entremont, N.E., Hawkes, A., MacDonald, D., Sullivan, R.M., **Woodruff, J.D.**, (Dec. 15, 2020), Near-annually resolved records of northern Bahamian hurricane activity during the Common Era: Emerging patterns and implications , Paper No. U017-10, *American Geophysical Union Fall Meeting*, Virtual
95. Wallace, E.J., Donnelly, J.P., van Hengstrum, P.J., Winkler, T.S., McKeon, K., MacDonald, D., d'Entremont, N.E., Sullivan, R.M., **Woodruff, J.D.**, Hawkes, A.D., Maio, C.,, (Dec. 11, 2020), Regional shifts in paleohurricane activity over the past 1500 years reconstructed from blue hole sediment records in the Bahama Archipelago, Paper No. PP033-07, *American Geophysical Union Fall Meeting*, Virtual
94. **Woodruff, J.D. (Keynote)**, Yellen, B., Ralston, D.K., and Brandon, C.M., (Oct. 29, 2020), Human Impacts to Urbanized Estuaries, Pardee Keynote Lecture, Paper No. 197-6, *Geological Society of America Annual Meeting*, Virtual
93. **(Student Author)** Baranes, H., **Woodruff, J. D.**, Talke, Kopp, R. E., S. A., Ray, R. D., & DeConto, R. M. (Feb 21, 2020), Tidally-driven interannual variation in extreme sea level probabilities in the Gulf of Maine, Paper No. CP52A-08, AGU Ocean Sciences, San Diego, CA.
92. **(Student Author)** Ladlow, C., Yellen, B., **Woodruff, J.D.**, Lau, W., Premo, B. and Ralston, D.K., (Dec. 12, 2019), Rapid Tidal Marsh Development in Response to Anthropogenic Shoreline Modifications – Hudson River Estuary. Paper No. PP42A-05, *American Geophysical Union Fall Meeting*, San Francisco, CA
91. **(Student Author)** Baranes, H., **Woodruff, J. D.**, Talke, Kopp, R. E., S. A., Ray, R. D., & DeConto, R. M. (Dec 2-13, 2019), Big tides and rising seas: estimating flood hazard in a changing world, COP-25 United Nations Climate Change Conference, Madrid, Spain
90. Winkler, T.S., van Hengstum, P.J., Donnelly, J.P., Maio, C., D'Entremont, N.E., Hawkes, A., Sullivan, R.M., Wallace, E.J. and **Woodruff, J.D.**, (Dec. 12, 2019). A 1800-Year Sedimentary Record from a Bahamian Blue Hole Archives Significant Variations in Intense Hurricane Landfall Frequency. Paper No. PP43D-1644, *American Geophysical Union Fall Meeting*, San Francisco, CA
89. Ralston D., Yellen, B., **Woodruff, J.D.**, (Nov. 7, 2019), Impacts of dam removals on sediment supply, transport, and deposition in the Hudson River estuary, *Coastal Estuarine Research Federation Biennial Conference*, Mobile, AL
88. **(Student Author)** Ladlow, C., **Woodruff, J.D.**, Cook T.L., Baranes, H.E., Kanamaru, K. (Mar 19, 2019), A Fluvial-Derived Flood Deposit Dating to the Kamikaze Typhoons in Kawahara, Japan, Paper No. 45-5, *Geological Society of America, Northeastern Regional Meeting*, Portland, ME
87. **(Student Author)** Griswold, F., **Woodruff, J.D.**, Baranes, H., (Mar 18, 2019), Differentiating Typhoon and Tsunami Deposits in Lake Ryujin, Kyushu, Japan, Paper No. 43-4, *Geological Society of America, Northeastern Regional Meeting*, Portland, ME

86. **(Student Author)** Baranes, H., Woodruff, J. D., Talke, S. A., Ray, R. D. (Mar 17-19, 2019), Interannual variation in extreme water level probabilities in the Gulf of Maine, Paper No. 45-10, *Geological Society of America, Northeastern Regional Meeting*, Portland, ME
85. Wallace, J.W., Donnelly, J.P., van Hengstum, P.J., McKeon, K., **Woodruff, J.D.**, Winkler, T.S., Sullivan, R., Hawkes, A., Maio, C., Dizon, C., (Dec. 10-13, 2018), Regional Shifts in Paleohurricane Activity over the Past Millennium Reconstructed from Blue Holes in the Tropical Atlantic, Paper No. PP42A-05, *American Geophysical Union Fall Meeting*, Washington, D.C.
84. **(Student Author)** Ladlow, C., **Woodruff, J.D.**, Baranes, H.E., Kanamaru, K., Cook, T. (Dec. 10-13, 2018), Evidence of Fluvially-derived Sediment During the Kamikaze Typhoons near Nagasaki, Japan, Paper No. PP42A-02, *American Geophysical Union Fall Meeting*, Washington, D.C.
83. **(Student Author)** Baranes, H.E., **Woodruff, J.D.**, Talke, S.A., Ray, R.D., (Dec. 10-13, 2018), Spatiotemporal Trends in Annual High Water Extremes in the Gulf of Maine, Paper No. NH43C-1070, *American Geophysical Union Fall Meeting*, Washington, D.C.
82. Yellen, B., **Woodruff, J.D.**, Ralston, D.K., Ladlow, C., Fernald, S., Lau, W., (Dec. 10-13, 2018), Evaluating Impacts of Dam Removals on Downstream Tidal Wetlands, Paper No. EP41C-2681, *American Geophysical Union Fall Meeting*, Washington, D.C.
81. **Woodruff, J.D.**, Yellen, B., Geyer, W.R., Kranenburk, W., Randal, N., Richardson, J.B., (Dec. 10-13, 2018), Storm Impacts on Estuarine Marshes, Paper No. EP21A-08, *American Geophysical Union Fall Meeting*, Washington, D.C.
80. Castagno, K.A., Ruehr, S.A., Donnelly, J.P., **Woodruff, J.D.** (Dec. 10-13, 2018), Grain-size distribution and patterns in storm-induced event beds in a coastal pond, Paper No. EP13D-2125, *American Geophysical Union Fall Meeting*, Washington, D.C.
79. Ralston, D., **Woodruff, J.D.**, Yellen, B., Fernald, S., Ladlow, C. Lau, W. (Nov. 5-9, 2018), Evaluating Impacts of Dam Removals on Downstream Tidal Wetlands, *NERRS/NERRA Annual Meeting*, Duluth, MN
78. **(Student Author)** Beach, D., **Woodruff, J.D.**, Baranes, H., DiTroia, A., (Oct. 30, 2018), Method evaluation for assessing changes in beach morphology following 2018 Boston flood events of record, American Shore & Beach Preservation Association, National Coastal Conference, Galveston, TX
77. **(Student Author)** DiTroia, A., **Woodruff, J.D.**, Mabee, S., Venti, N., and Beach, D., (Feb. 14, 2018), Legacy Sediment Controls on Grain Size for Paraglacial Beaches, *Ocean Sciences, AGU-ASLO*, Portland, OR
76. Switzer, A. Gan, G., Li, L., Soria, J.L., Gouramanis, C., **Woodruff, J.D.**, (Feb. 04, 2018), On the need for paleotempestology research in the Western Pacific, *New Dimensions for Natural Hazards in Asia, AOGS-EGU Joint Conference*, Tagayta, Philippines
75. Talke, S., Kemp, A., and Woodruff, J.D., (Dec. 13, 2017), Relative Sea Level, Tide Range and Extreme Water Levels in Boston Harbor from 1825 to 2016, Paper No. OS21B-03, *American Geophysical Union Fall Meeting*, New Orleans, LA.
74. Castagno, K., Rhuehr, S., Donnelly, J., and **Woodruff, J.D.** (Dec. 13, 2017), Grain-size analysis and sediment dynamics of hurricane-induced event beds in a coastal New England pond, Paper No. EP12B-08, *American Geophysical Union Fall Meeting*, New Orleans, LA.

73. Wallace, E., Donnelly, J., van Hengstum, P., Wiman, C., McKeon, K., LaBella, A., Sullivan, R., Winkler, T., **Woodruff, J.D.**, Hawkes, A., Maio, C. (Dec. 13, 2017), Sedimentary Reconstructions of Tropical Cyclone Activity over the Past 1500 Years from Blue Holes in the Caribbean, Paper No. PP53D-08, *American Geophysical Union Fall Meeting*, New Orleans, LA.
72. Farrington, E., Lane, C., Hawkes, A., Donnelly, J., van Hengstum, P., **Woodruff, J.D.**, Maio, C., Grochocki, K., Taylor, A., (Dec. 13, 2017), Sedimentary Geochemical and Palynological Evidence of Late-Holocene Paleoenvironmental Change from Baradères Bay, Haiti, Paper No. PP33A-1315, *American Geophysical Union Fall Meeting*, New Orleans, LA.
71. Yellen, B., **Woodruff, J.D.**, Ralston, D.K., MacDonald, D.G., Jones, D., (Nov. 07, 2017), Salt wedge dynamics lead to enhanced sediment trapping within side embayments in high-energy estuaries, *Coastal Estuarine Research Federation Annual Meeting*, Providence RI.
70. **(Student Author)** DiTroia, A., **Woodruff, J.D.**, Venti, N., Mabee, S., Beach, D., (Nov. 08, 2017), Legacy sediment controls on grain size for paraglacial beaches, *Coastal Estuarine Research Federation Annual Meeting*, Providence RI.
69. Kashima, K., Fukumoto, Y., **Woodruff, J.D.**, Haraguchi, T., Yoshinaga, Y., (Sept. 4-8, 2017), Diatoms and Chrysophyceae spores at Lake Ryuo-ike and Lake Ikeda-Ike (Daija Ike), coastal lagoons at western part of Japan, to identify typhoon and tsunami deposits in lake sedimentary cores, *Asian Association for Quaternary Research*, Jeju Island, S. Korea
68. Kida, S., Okazaki, Y., and **Woodruff, J.D.**, (May 20-25, 2017), Capturing extreme river runoff events from oceanic sediment distribution, *Japan Geoscience Union-American Geophysical Union Joint Meeting*, Chiba, Japan
67. **Woodruff, J.D. (Invited)**, Baranes, H., Loveless, J., (Oct 15-16, 2016), Sedimentary Reconstructions of Nankai Trough Derived Mega-Thrust Tsunamis from the Bungo Channel, Shikoku, Japan, *East Eurasia International Conference on Earth Surface Processes and Long-term Environmental Changes*, Okinawa, Japan
66. **Woodruff, J.D.**, Kashima, K. 2016, (Oct. 15-16), Evidence for the Kamikaze Typhoons and Potential Climate Drivers from Western Kyushu, Japan, *East Eurasia International Conference on Earth Surface Processes and Long-term Environmental Changes*, Okinawa, Japan
65. **(Student Author)** Stromer, Z. **Woodruff, J.D.**, Mabee, S., (Oct. 26-28, 2016), Coastal Flood Risk in Massachusetts: A Combined Approach, *American Shore & Beach Preservation Association 90th Anniv. Conference*, Long Branch, NJ
64. Mabee, S., **Woodruff, J.D.**, Venti, N., DiTroia, A., and Beach, D.(Oct. 26-28, 2016), Sand Resource Assessment at Public Beaches in Massachusetts: Determination of Baseline Profile and Grain Size Conditions, *American Shore & Beach Preservation Association 90th Anniv. Conference*, Long Branch, NJ
63. **Woodruff, J.D. (Invited)**, Kanamaru, K. and Cook, T., (July 28, 2016), Sedimentology of the Genko (元寇) Invasions, *International Conference on Climatic variations and natural disasters in Japan during the 19th century*, Seikei Univeristy, Japan
62. **Woodruff, J.D. (Invited)**, Kanamaru, K. and Cook, T., (June 24-25, 2016), Japan paleo-typhoon climatology, *AORI International Conference: Recent Advances in Paleoclimate Studies*, University of Tokyo, Japan

61. **Woodruff, J.D. (Invited)**, Kanamaru, K. and Cook, T., (May 22-26, 2016), Depositional evidence for the Kamikaze Typhoons from Western Kyushu, Japan, *Japan Geoscience Union Annual Meeting*, Chiba, Japan
60. **Woodruff, J.D.**, Baranes, H., Kanamaru, K., Wallace, D., Loveless, J., Weiss, R., Chen, W., and Cook, T., 2016 (May 24), Sedimentary reconstructions of coastal flooding in the Bungo Channel by the 1707 CE Hōei tsunami, *Japan Geoscience Union Annual Meeting*, Chiba, Japan
59. **(Student Author)** Cashman, M., **Woodruff, J.D.**, Donnelly, J.P., 2016 (Mar. 21-23) Relative Flow Intensity Analysis of Modern and Historical Tropical Atlantic Hurricanes, *Northeastern Section, GSA, 51st Annual Meeting*, NH, Paper No. 60-1, Albany, NY
58. **(Student Author)** Schulze, N., **Woodruff, J.D.**, Kanamaru, K., Baranes, H., 2016 (Mar. 21-23) Sedimentological Signatures of Regional Seismicity in Western Shikoku, *Northeastern Section, GSA, 51st Annual Meeting*, Paper No. 60-4, Albany, NY
57. **(Student Author)** Baranes, H., **Woodruff, J.D.**, Loveless, J., Cheng, W., Weiss, R., and Kanamaru, K., 2015, (Dec. 17) Using present-day patterns of interseismic coupling to model the C.E. 1707 Hōei earthquake and simulate tsunami inundation of Lake Ryuuoo in the Bungo Channel, southwestern Japan, Paper No. NH24A-03, *American Geophysical Union Fall Meeting*, San Francisco, CA
56. **Woodruff, J.D. (Invited)**, Stromer, Z., Talke, S., and Orton, P., (Dec. 11-15, 2015), Improving Coastal Flood Risk Assessments for the Northeastern United States: New York City to Boston, Paper No. NH44A-01, *American Geophysical Union Fall Meeting*, San Francisco, CA
55. **(Student Author)** Stromer, Z.D., **Woodruff, J.D.**, Donnelly, J.P., 2015 (Nov. 1) The Great Colonial Hurricane of 1635 - Reassessing Extreme Flood Vulnerability for the Southern Coast of Massachusetts, *GSA Annual meeting*, Paper# 134-15, Baltimore, MD.
54. **Woodruff, J.D. (Invited)**, Brandon, C., Orton, P. and Donnelly, J., (May 10, 2015), Coastal Flooding in New York City: Storm, Sea Level and Shoreline Change, *Royal Geographical Society Conference on Storm Geomorphology*, London, UK
53. **(Student Author)** Yellen, B.C., **Woodruff, J.D.**, Cook, T.L., and Newton, B.M., 2015 (Mar. 23-25), Did Climate Change Cause Extreme Erosion During Hurricane Irene? Expectations Moving Forward, Paper No. 18-6, *Northeastern Section, GSA, 50th Annual Meeting*, Bretton Woods, NH
52. **(Student Author)** Yellen, B.C., **Woodruff, J.D.**, MacDonald, D., Martini, A.M., and Jones, D.S., 2015 (Mar. 23-25), Infilling of Tidal Freshwater River Coves – Observations at Multiple Time Scales, Paper No. 34-10, *Northeastern Section, GSA, 50th Annual Meeting*, Bretton Woods, NH
51. Cook, T.L., Yellen, B.C., Miller, D.R., and **Woodruff, J.D.**, 2015 (Mar. 23-25), Geomorphic Impacts of Floods, Humans and Climate Change on the Post Glacial Landscape of New England, Paper No. 18-2, *Northeastern Section, GSA, 50th Annual Meeting*, Bretton Woods, NH
50. **(Student Author)** Terra, C.J., Clement, W.P. and **Woodruff, J.D.**, 2015 (Mar. 23-25), Using Ground Penetrating Radar to Compare Hurricane Irene to Past Events, Paper No. 32-4, *Northeastern Section, GSA, 50th Annual Meeting*, Bretton Woods, NH
49. **(Student Author)** Beaulieu, O.P., Brandon, C.M., and **Woodruff, J.D.**, 2015 (Mar. 23-25), Sedimentary Evidence of European Land Clearance and Oyster Bed Destruction in New York Harbor, Paper No. 73-10, *Northeastern Section, GSA, 50th Annual Meeting*, Bretton Woods, NH

48. Venti, N.L., Gessay, S., Southard, P., Beach, B., Mansfield, M., Mabee, S., and Woodruff, J.D., 2015 (Mar. 23-25), Subtle Modification of Glacially Derived Materials Along Massachusetts' Southern Coast By Passing Summer Storms, Paper No. 73-2, *Northeastern Section, GSA, 50th Annual Meeting*, Bretton Woods, NH
47. Kanamaru, K., **Woodruff, J.D.**, Kundu, S., and Cook, T., 2014 (Dec. 15-19), Geochemical Characteristics of Typhoon - and Tsunami - Induced Deposits from Western Kyushu Islands, *Eos, Transactions, American Geophysical Union*, Fall Meet. Suppl. Abstract NN21A-3816, San Francisco, CA
46. Wallace, D., Rosenheim, B., Robert, M., Burton, J., Donnelly, J., and **Woodruff, J.D.**, 2014 (Dec. 15-19), Paleotempestological chronology developed from gas ion source AMS analysis of carbonates determined through real-time Bayesian statistical approach, *Eos, Transactions, American Geophysical Union*, Fall Meet. Suppl. Abstract PP41D-1429, San Francisco, CA
45. **(Student Author)** Baranes, H., Woodruff, J.D., Wallace, D.J., Kanamaru, K. and Cook, T., 2014 (Oct. 19-22), Sedimentological Signatures of Large Scale Inundation Events: Records of the 1707 AD Hoi Tsunami from the Bungo Channel, Japan, Paper No. 182-6, *GSA Annual Meeting*, Vancouver, BC, Canada
44. **(Student Author)** Yellen, B., **Woodruff, J.D.**, MacDonald, D., and Martini, A., 2014, (Oct. 19-22), Sedimentary Response of Tidal Freshwater Rivers and Coves to Salt Intrusion – Implications for Sea Level Rise Paper No. 311-8, *GSA Annual Meeting*, Vancouver, BC, Canada
43. Wallace, D., Donnelly, J., and Woodruff, J.D., 2014, (Oct. 19-22), Reconstructing Western Atlantic Holocene Hurricane Impacts from Two Coastal Ponds in Bermuda, Paper No. 182-9, *GSA Annual Meeting*, Vancouver, BC, Canada
42. **(Student Author)** Baranes, H., **Woodruff, J.D.**, Wallace, D., Kanamaru, K., Cook, T.L., 2014, Historical Inundation Events from Western Kyushu Islands: Geochemical Characteristics of Typhoon and Tsunami Induced Deposits, Abstract ID IG04-A015, *Asia Oceania Geosciences Society Annual Meeting*, Sapporo, Japan
41. Kanamaru, K., **Woodruff, J.D.**, Kundy, S., Cook, T.L., 2014, Historical Inundation Events from Western Kyushu Islands: Geochemical Characteristics of Typhoon - and Tsunami - Induced Deposits, Abstract ID IG04-A019, *Asia Oceania Geosciences Society Annual Meeting*, Sapporo, Japan
40. **(Student Author)** Yellen, B.C., **Woodruff, J.D.**, Cook, T.L., Fallon, A.R., Kratz, L.N., Martini, A., 2014, (Mar. 25), Putting Hurricane Irene Sediments In A Historical Context - Evidence From Uplands To Estuary, Paper No. 59-2, *Northeastern Section, GSA, 49th Annual Meeting*, Lancaster, PA
39. **(Student Author)** Hannah, B.E., **Woodruff, J.D.**, Kanamaru, K., Wallace, D., Cook, T.L., 2014, (Mar. 25), Sedimentological Impacts Of Large Scale Inundation Events: Records Of Tsunami And Typhoon Flooding From Lake Ryuuoo, Japan, Paper No. 59-3, *Northeastern Section, GSA, 49th Annual Meeting*, Lancaster, PA
38. **(Student Author)** Brandon, C.M., **Woodruff, J.D.**, Donnelly, J.P., 2014, (Mar. 25), Sedimentary Reconstructions Of Flooding And Shoreline Change Of Staten Island, NY: Implications For Future Management Of New York Harbor, Paper No. 59-1, *Northeastern Section, GSA, 49th Annual Meeting*, Lancaster, PA
37. Cook, T.C., Yellen, B.C., **Woodruff, J.D.**, 2014, (Mar. 24), A Long-term Perspective On Tropical Storm Irene And The Occurrence Of Extreme Geomorphic Events Based On Flood-induced Deposits In Amherst Lake, VT, Paper No. 41-1, *Northeastern Section, GSA, 49th Annual Meeting*, Lancaster, PA

36. **(Student Author)** Dunn, C.A., Yellen, B.C., **Woodruff, J.D.**, Schmidt, A.H., 2014, (Mar. 24), How Unusual Is Tropical Storm Irene? A Case Study Of Storm Deposition In Littleville Lake, Huntington, MA, Paper No. 41-2, *Northeastern Section, GSA, 49th Annual Meeting*, Lancaster, PA
35. **(Student Author)** Seidenstein, J., Newton, R.M., Yellen, B.C., **Woodruff, J.D.**, Germanoski, D., 2014, (Mar. 23), Clay Mineralogy Fingerprinting Of Sediments Deposited From Tropical Storm Irene In The Connecticut River Watershed, Paper No. 14-7, *Northeastern Section, GSA, 49th Annual Meeting*, Lancaster, PA
34. **(Student Author, Invited)** Brandon, C., **Woodruff, J.D.**, Donnelly, J., 2013 (Oct. 29). Using inundation deposits to constrain past storm surges impacting New York City, NY, Paper No. 246-15, *GSA Annual Meeting*, Denver, CO, USA
33. **(Student Author, Invited)** Brandon, C., **Woodruff, J.D.**, Donnelly, J., 2013 (Oct. 27). How unique was Hurricane Sandy? A Comparison of the inundation deposits and surge heights from Hurricane Sandy and the 1821 Hurricane, Paper No. 12-12, *GSA Annual Meeting*, Denver, CO, USA
32. **Woodruff, J.D. (Invited)**, Brandon, C., Donnelly, J., (Oct. 19-22, 2014), Human Impacts on New York City Barrier Development, Paper No. 340-2, *GSA Annual Meeting*, Vancouver, BC, Canada
31. **Woodruff, J.D. (Invited)**, Brandon, C., Donnelly, J., (Oct. 19-22, 2014), Are We Significantly Underestimating the Current Risk of Extreme Flooding to New York City? , Paper No. 67-5, *GSA Annual Meeting*, Vancouver, BC, Canada
30. **Woodruff, J.D. (Invited)**, Kanamaru, K., Kundu, S., Cook, T, (Oct. 19-22, 2014), Depositional Evidence for the Kamikaze Typhoons: Climate, Extreme Weather, and the Collapse of the Mongol Empire , Paper No. 182-2, *GSA Annual Meeting*, Vancouver, BC, Canada
29. **Woodruff, J.D. (Invited)**, Mabee, S., Venti, N., Mansfield, M., (Sept. 20, 2014), Sand Resource Needs Assessment at Critical Beaches on the Massachusetts Coast, Northeast Shore & Beach Preservation Association *Conference on New England Coastal Issues*, Plymouth, MA, USA
28. **Woodruff, J.D. (Invited)**, Brandon, C., Donnelly, J., (July 27-31, 2014), Anthropogenic Versus Natural Controls on Storm Surge Inundation for the Harbor of New York City: Insight from Hurricane Sandy, Abstract ID IG07-A005, *Asia Oceania Geosciences Society Annual Meeting*, Sapporo, Japan
27. **Woodruff, J.D.**, 2013 (Apr. 15) Sea-level rise and geomorphic dominance on landfalling tropical cyclone impacts, *Joint Penrose/Chapman Conference on Coastal Processes and Environments Under Sea-Level Rise and Changing Climate*, Galveston, TX, USA
26. **(Student Author)** Brandon, C., and **Woodruff, J.D.**, 2013 (Apr. 15) Tropical cyclone wind speed constraints from resultant storm surge deposits: a 2500 year reconstruction of hurricane activity from St. Marks, FL., *Joint Penrose/Chapman Conference on Coastal Processes and Environments Under Sea-Level Rise and Changing Climate*, Galveston, TX, USA
25. Wallace, D.J., Donnelly, J.P., **Woodruff, J.D.**, and Anderson, J.B., 2013 (Apr. 15) Reconstructing Western Atlantic Holocene Hurricane Impacts, *Joint Penrose/Chapman Conference on Coastal Processes and Environments Under Sea-Level Rise and Changing Climate*, Galveston, TX, USA
24. **(Student Author)** Yellen, B.C., **Woodruff, J.D.**, *Fallon, A.R., and Kratz, L.N., 2013 (Mar. 19). The effect of flood control dams on downstream sedimentation from a large discharge event: A study of

Tropical Storm Irene and the Connecticut River, Paper No. 32-6, *Northeastern Section, GSA, 48th Annual Meeting*, Bretton Woods, NH. USA

23. Mabee, S.B., **Woodruff, J.D.**, Fellows, J., and Kopera, J.P., 2013 (Mar. 19). Landslides from Tropical Storm Irene in the Deerfield Watershed, Western Massachusetts, Paper No. 32-3, *Northeastern Section, GSA, 48th Annual Meeting*, Bretton Woods, NH. USA
22. **(Student Author)** Fallon, A.R., **Woodruff, J.D.**, Yellen, B.C., Kratz, L.N., 2013 (Mar. 19). How unique was Tropical Storm Irene? A comparison of deposits from historical floods on the lower Connecticut River, Paper No. 60-3, *Northeastern Section, GSA, 48th Annual Meeting*, Bretton Woods, NH. USA
21. **(Student Author)** Kratz, L.N., **Woodruff, J.D.**, *Yellen, B.C., and *Fallon, A.R., 2013 (Mar. 19). The relative role of high magnitude, low frequency events in infilling off-river waterbodies: insight from Tropical Storm Irene and the 2012 Spring Freshet, Paper No. 60-1, *Northeastern Section, GSA, 48th Annual Meeting*, Bretton Woods, NH. USA
20. **(Student Author)** Hellmer, M., Martini, A. and **Woodruff, J.D.**, 2013 (Mar. 19). Mercury loading along the Connecticut River: Sedimentary records from Barton Cove, MA., Paper No. 44-12, *Northeastern Section, GSA, 48th Annual Meeting*, Bretton Woods, NH. USA
19. **(Student Author)** Yellen, B., **Woodruff, J.D.**, Kratz, L.N., Fallon, A., 2012 (Dec. 5), Do hurricanes leave unique sedimentological records in floodplain settings? Connecticut River, Tropical Storm Irene and past flood events. *AGU Annual Meeting*, San Francisco, CA, USA
18. **Woodruff, J.D. (Invited)**, and Martini, A.M., (Nov. 13-14, 2012). Sediment trapping and human impacts on tidal off-river waterbodies, *AGU Chapman Conference on Hydrogeomorphic Feedbacks and Sea Level Rise in Tidal Freshwater River Ecosystems*, Reston, Virginia
17. **(Student Author)** Brandon, C., **Woodruff, J.D.**, Donnelly, J., Lane, P., 2012 (Nov. 7). Constraining hurricane wind speed at landfall using storm surge overwash deposits from a sinkhole in St. Marks, FL, Paper No. 266-6, *GSA Annual Meeting*, Charlotte, NC, USA
16. Kanamaru, K., **Woodruff, J.D.**, Cook, T.L., 2012 (Nov. 7). Sedimentary evidence of the 13th Century Kamikaze Typhoons from Southwestern Japan, Paper No. 28-2, *GSA Annual Meeting*, Charlotte, NC, USA
15. Wallace, D., Kanamaru, K., Cook, T., **Woodruff, J.D.**, 2012 (Nov. 7). Sedimentological records of typhoons and tsunamis from Shikoku, Southeastern Japan, Paper No. 88-1, *GSA Annual Meeting*, Charlotte, NC, USA
14. Martini, A., **Woodruff, J.D.**, Kekacs, D., Boubberhan, H., Bercerra, C.A., 2012. Mercury methylation, pore water geochemistry and legacy mercury contamination along the floodplain of the Connecticut River, Paper No. 3:14D, *22nd Goldschmidt Conference*, Montreal, CAN
13. **Woodruff, J.D.** and Martini, A.M., 2012. Post-Colonial Inlets and the Rapid Infilling of Tidal Floodplain Lakes and Coves: Connecticut River, U.S.A, Paper No. 2-9, *Northeastern Section, GSA, 47th Annual Meeting*, Hartford, CT., USA
12. **(Student Author)** Kratz, L.N., **Woodruff, J.D.**, Martini, A.M., and Morrison, J., 2012. Resultant Sedimentation from Tropical Storm Irene in the Lower Connecticut River, Paper No. 2-10, *Northeastern Section, GSA, 47th Annual Meeting*, Hartford, CT. USA

11. **(Student Author)** Bouberhan, H., Martini, A.M., and **Woodruff, J.D.**, 2012. Controls on Methylmercury Production in Two Connecticut River Embayments, Paper No. 53-3, *Northeastern Section, GSA, 47th Annual Meeting*, Hartford, CT, USA
10. **(Student Author)** Fine, L., Donnelly, J., Martini, A. and **Woodruff, J.D.**, 2012. Calibrating a Sedimentary Record of Hurricane Overwash Deposition from Quissett Harbor, Woods Hole, MA, Paper No. 18-9, *Northeastern Section, GSA, 47th Annual Meeting*, Hartford, CT, USA
9. **Woodruff, J.D.**, *Kratz, L., *Yellen, B., and Martini, A., 2012. Tidal Controls on the trapping of Hurricane Irene sediments in the Lower Connecticut River, T-29, *TOS/ASLO/AGU Ocean Sciences Meeting*, Salt Lake City, UT, USA
8. **(Student Author)** Brandon, C.M., **Woodruff, J.D.**, Lane, P., Donnelly, J.P. , 2011. Constraining flooding conditions for early historic and prehistoric hurricanes from resultant deposits preserved in Florida sinkholes, *Eos, Transactions, American Geophysical Union*, Fall Meet. Suppl. Abstract OS33A-1645, San Francisco, CA
7. **(Student Author)** Jacobacci, K., **Woodruff, J.D.**, O'Connell, S., and Naughton, T., 2011. A case study for sediment and contaminant storage in floodplain tidal ponds: Selden Cove, Connecticut River, *GSA Northeastern-Central Joint Meeting*, 43(1) pp. 66. Paper No. 12-3, Pittsburgh, PA
6. **Woodruff, J.D. (Invited)**, Sriver, R.L., Lund, D.C., (Dec., 12-16, 2010). Tropical cyclone activity and western North Atlantic stratification over the last millennia and potential connections, *Eos, Transactions, American Geophysical Union*, 91(51) Fall Meet. Suppl. Abstract GC32B-01, San Francisco, CA
5. **(Student Author)** Brandon, C.M., **Woodruff, J.D.**, Donnelly, J.P., 2010. Constraining hurricane-induced flooding over the last 2000 years using preserved overwash deposits from a Florida sinkhole, *Eos, Transactions, American Geophysical Union*, 91(51) Fall Meet. Suppl. Abstract OS31D-1458, San Francisco, CA
4. **(Student Author)** Naughton, T.J., **Woodruff, J.D.**, Elzidani, E.H., Martini, A.M., 2010. Tidal Impacts on Sediment and Associated Mercury Storage in the Lower Connecticut River Floodplain, *Eos, Transactions, American Geophysical Union*, 91(51) Fall Meet. Suppl. Abstract EP31B-0738, San Francisco, CA
3. Donnelly, J.P., **Woodruff, J.D.**, Lane, P., and Gomes, M., 2009. Late Holocene Coastal Archives of Intense Tropical Cyclone Activity: Patterns and Climatic Forcing, *Papers from the Annual Meeting of the Association of American Geographers*, Las Vegas, NV
2. **Woodruff, J.D.**, Jagger, T.H., Donnelly, J.P. and Okusu, A., 2009. Sedimentary evidence for a link between El Nino and tropical cyclone activity in the Western North Pacific over the last 6500 years, *Eos, Transactions, American Geophysical Union*, 90(48) Fall Meet. Suppl. Abstract PP12C-03, San Francisco, CA
1. **Woodruff, J.D.**, Donnelly, J.P. and Okusu, A., 2009. Exploring typhoon variability over the mid-to-late Holocene: evidence of extreme coastal flooding from Kamikoshiki, Japan, *2nd Annual Summit on Hurricanes and Climate Change*, Corfu, Greece

Teaching and Advising (Since 2009)

Teaching Experience

Coastal Processes:	GEO-SCI 557 (25 students), <i>Springs 20- 10,13,15,18,20,21,22,23</i> Avg. Student Evaluations of Instructor (out of 5): 4.6
Introductory Oceanography:	GEO-SCI 103 (300 students), <i>Spring 20- 11,13,15,17,19, Fall 2021</i> Avg. Student Evaluations of Instructor (out of 5): 4.6
Living on Earth	GEOLOGY-494LI (30 students), Fall 2019 Average Student Evaluations of Instructor (out of 5): 4.7
Sedimentology w/Lab:	GEO-SCI 445 (25 students), <i>Fall 20- 09-15,17,18</i> Average Student Evaluations of Instructor (out of 5): 4.2
Sed. Honors Colloquium:	GEO-SCI H445 (5-15 students), <i>Fall 20- 10-18</i> Average Student Evaluations of Instructor (out of 5): 4.9
Sediment & Coastal Dynamics Seminar:	GEO-SCI 593S (Spring, 2017-2022)
Indigenous Knowledge on Climate Adaptation Seminar:	GEOLOGY 497K (Spring, 2021) Funded in-part via a \$10k Native American and Indigenous Studies 5-College Mellon Mini-Grant

Advising

Postdoctoral Scholars:

Erin Peck (2022-present)
Julie Walker (2022-present)
Nicholas Venti (2014-2016)
Davin Wallace (2012-2013)
Kinuyo Kanamaru (2010-2012)

Kara Jacobacci (2010-2011)

Dissertation Committee Member:

Samantha McComb (Ph.D., 2022-present)
Wenxiu Teng (Ph.D., 2021-present)
Bonnie Turek (M.S., 2020-2023)
Karin Lehnigk (Ph.D., 2018-2022)
Evan Thaler (Ph.D., 2017-2021)
Brendan Moran (M.S., 2018-2020)
Elisabeth Waller (MIT/WHOI, Ph.D. 2016-2020)
Torgeir Opeland Røthe (Ph.D., 2018-2019)
K. Castagno (MIT/WHOI, Ph.D. 2016-2019)
Sarah McKnight (M.S., 2017-2019)
Arash Pirouzi (Ph.D., 2018)
Pamela Patrick (PhD, 2015-2018)
Daniel Miller (M.S., 2014-2015)
Zackary Smith (Ph.D., 2013)
Noah Sloven (M.S., 2013-2014)
Benjamin Pelto (M.S., 2013-2014)
Hoang Nguyen (Ph.D., 2010-2011)
Adrian Boscardin (Ph.D., 2011-2013)
Brian Yellen (M.S., 2010-2011)
Nicholas Balascio (Ph.D., 2009-2010)

Ph.D. Graduate Students:

Pedro Matos Llavona (2019-present)
Frances Griswold (2017-2022)
Hannah Baranes (2017-2021)
Brian Yellen (2012-2015)
Christine Brandon (2010-2015)

M.Sc. Graduate Students:

Molly Autery (2022-present)
Olivia Hansen (2021-present, co-advised)
Kelly McKeon (2019-2021)
Caroline Ladlow (2017-2019)
Douglas Beach (2017-2019)
Alycia DiTroia (2017-2019)
Zachary Stromer (2014-2016)
Hannah Baranes (2013-2015)
Laura Kratz (2011-2013)
Emhmed Elzidani (2009-2011)

Senior Undergraduate Theses:

Jacob Light (2016-2017)
Miranda Cashman (2015-2016)
Nina Schulze (2015-2016)
Wesley Johnson (2013-2015)
Olivia Beaulie (2014-2015)
Andrew Fallon (2012-2013)
Jennifer Fardy (2011-2012)
Jonathan Schneyer (2011-2012)

Undergraduate Independent Study Projects:

Iva Resnja (Summer-2022 - present)
Hannah Chan (Summer-2022 - present)
Noa Randall (Fall, 2018)
William Kopaciewicz (Fall, 2017)
Jessica Panton (Fall, 2017)
Sabina Gessay (Spring, 2015)
Jennifer Journack (Spring, 2015)
Justin Healey (Spring, 2015)
Cameron Kuney (Spring, 2014)
Travis Eddy (Spring, 2014)

Melanie Koerth (Spring, 2014)
Lisa Kumpf (Spring, 2013)
Christopher Hocker (Spring, 2011)

Shakib Ahmed (2009-2010)
Fumi Fakabori (2009-2010)

Service (Since 2009)

Scientific Outreach

Associate Editor: *Island Arc* (official journal of the Japanese Geological Society): 2016-2020

Reviewer: *Earth Science Reviews; Estuaries; Estuarine, Coastal and Shelf Science; Estuaries and Coasts; Geology; Geomorphology; Geophysical Research Letters; Holocene; Island Arc; Journal of Geophysical Research; Journal of Climate; Journal of Paleolimnology; Journal of Quaternary Science, Marine Geology; Marine Geophysical Researches; Natural Hazards; Nature; Proceedings of the National Academy of Sciences; Quaternary International; Quaternary Research; Scientific Reports; Sedimentary Geology*

Proposal Reviewer: *DOE National Institute for Climate Change Research, National Geographic Society, National Science Foundation (Marine Geology and Geophysics, Sedimentary Geo & Paleobiology; Geomorphology & Land-Use Dynamics; Paleo Perspectives on Climate Change), University of Puerto Rico Sea Grant*

Panel Member: *Invited US National Science Foundation Panel Member (1 full yr, fall and spring rotations)*

Professional Affiliations: American Geophysical Union, Japanese Geophysical Union, Geological Society of America, Society for Sedimentary Geology, Sigma Xi

Science Featured in: BBC, CBS, NBC, NECN, National Public Radio, Boston Globe, TIME, RTT, Fox News, National Geographical Society Magazine and Channel, Science Magazine, Spiegel Magazine, Miller-McCune Magazine, Slate Magazine, EARTH Magazine, AccuWeather, Weather Channel, Physics.org, New Scientist, Archaeology, Climate Central, and the National Science Foundation

- 2019-2022 Greater Boston Research Advisory Group, Climate Ready Boston Report, Advisory Committee and Contributing Author
- 2020-2022 New England Salt Marsh Working Group, Sub-Group Lead on Sediment Supply & Soils
- 2017-2019 Co-organizing both annual webinar and in-person stakeholder meetings for NOAA National Estuarine Research Reserve System (NERRS) Scientific Collaborative sponsored *Dams and the Sediment in the Hudson* (DASH) to address effects of dam removal on sediment transport and wetland sustainability in the Hudson River Estuary.
- 2018 NSF Coastlines and People Scoping Workshop participant, Chicago, IL (Sept. 25-28, 2018)
- 2016 Co-organizer of East Eurasia International Workshop on Present Earth Surface Processes and Long-Term Environmental Changes (Oct. 14-17), Okinawa, Japan
- 2015-2016 Panel Member and Co-Author of Advisory Report on Coastal Flooding for the City of Boston.
- 2013 Co-led 4-week Keck undergraduate summer field program studying Hurricane Irene's impact on the Connecticut River and associated upland tributaries
- 2012 Participant in 50-member NSF sponsored panel to discuss tsunami deposits and their role in hazard mitigation. Co-authored white-paper report:
Weiss, R., Harris, C. **Woodruff, J.D.**, Lynett, P. Mandli, K. and Delbecque, K., 2012. *Tsunami Sediment Dynamics: Erosion, Transport and Deposition: In NSF Recommendation Report: Tsunami Sedimentology and Its Role in Hazard Awareness, Preparedness, Assessment and Mitigation*
- 2012 GSA Annual Meeting: convener of special session "*Paleotempestology: Proxy Record Development and Climate Forcing Mechanisms*"
- 2012 Northeastern GSA Sectional Meeting: convener of special session "*The Legacy of Humans and Glaciation in Northeastern Rivers?*"

2010, 2011 Administered summer field trips for Keck Geology Consortium participants.

Advisory Publications

DeConto, R, Baranes, H., **Woodruff, J.D.**, Halberstadt, A.R., Kopp, R., (2022) Sea Level Rise Chapter in Greater Boston Research Advisory Group (GBRAG) Climate Ready Boston Report

Kahl, K., Pappal, A., et al., Gaining Ground: Defining Priority Research for Resilient Salt Marshes, (2022) Salt Marsh Working Group

Woodruff, J.D., Baranes, H., Yellen, B., Hughes, Z., Ganju, N., Turek, J., Cook, T., and Hoppings, R. (2022) A Summary of Driving Research Questions Related to Sediment Supply to Saltmarshes in the Northeast, Massachusetts Salt Marsh Working Group

Contributing Author, (2019), Intergovernmental Panel on Climate Change (IPCC), Special Report on the Ocean and Cryosphere in a Changing Climate: Chapter 4 on Sea Level Rise and Implications for Low Lying Islands, Coasts and Communities, Cambridge University Press

Woodruff, J.D., (2018), Future of tidal wetlands depends on coastal management (News&Views). *Nature*, 561(7722):183-185: doi: 10.1038/d41586-018-06190-x

Weiss, R., Harris, C. **Woodruff, J.D.**, Lynett, P. Mandli, K. and Delbecq, K., 2012. Tsunami Sediment Dynamics: Erosion, Transport and Deposition: *In NSF Recommendation Report: Tsunami Sedimentology and Its Role in Hazard Awareness, Preparedness, Assessment and Mitigation*

University/Department Services

2011-present	Faculty Advisor for UMass Environmental Science Majors
2009-present	Coastal and Marine Sciences – Five Colleges, Steering Committee Member
2019-2021	Graduate Admissions Committee – UMass, Department of Geosciences
2017-2019	Departmental Personnel Committee (2018-2019 chair)– UMass, Department of Geosciences
2016-2017	Faculty Aqueous Geochem. Search Committee – UMass, Department of Geosciences
2014-2015	UMass Goldwater Scholarship Committee
2014-2015	Committee for Graduate Admissions – UMass, Department of Geosciences
2013-2014	Faculty Geomorphology Search Committee – UMass, Department of Geosciences
2012-2013	Department Head Search Committee – UMass, Department of Geosciences
2010-2011	Departmental Personnel Committee – UMass, Department of Geosciences

Data Archives

Cook, T.L., Autery, M., **Woodruff, J.D.**, and Yellen, B., 2023, Database of Sediment Accretion and Elevation Change Rates for Coastal Marshes of Northeastern United States, Derived from Studies Published from 1975 through 2022: Data Release, <https://doi.org/10.21429/ff9k-1c07>.

Woodruff, J.D., Yellen, B., Cook, T.L., Baranes, H., Griswold, F., and Autery, M., 2023, Database of Sediment Mass Accumulation for Coastal Marshes of Northeastern United States from Sediment Trap Deployments during 2020 and 2021: Data Release, <https://doi.org/10.21429/jwh1-yr28>.

Woodruff, J.D., Venti, N., Mabee, S., DiTroia, A., Beach, D. (2020), “Massachusetts Beach Grain Size and Slope Data”, Data and Datasets. 115. <https://doi.org/10.7275/z2rb-w469>

Yellen, B. & **Woodruff, J.D.** (2020), "Dam Impoundments Sediment Mass – Tributaries to the Hudson River". Data and Datasets. 109.

<https://doi.org/10.7275/xktv-8m12>

Yellen, B. & **Woodruff, J.D.** (2020), "Hudson River Estuary Tidal Marsh Sediment Data". Data and Datasets. 108.

<https://doi.org/10.7275/dh3v-0x33>