

VALERIE J. PASQUARELLA

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Education

Boston University, Boston, MA (Environmental Science)	B.A.	2010
Boston University, Boston, MA (Environmental Remote Sensing & GIS)	M.A.	2010
Boston University, Boston, MA (Geography)	Ph.D.	2016
University of Massachusetts, Amherst, MA	Post-doc	2016-2018

Appointments

2018 – present Assistant Director, Center for Remote Sensing, Boston University, Boston, MA
2018 – present Research Scientist, Center for Remote Sensing, Boston University, Boston, MA
2017 – present Research Associate Harvard University, Harvard Forest, Petersham, MA

Select Publications:

- Pasquarella, V.J.**, J.S. Elkinton, B.A. Bradley. 2018. Extensive gypsy moth defoliation in Southern New England characterized using Landsat satellite observations. *Biological Invasions*, 20(11), 3047-3053. doi:10.1007/s10530-018-1778-0
- Pasquarella, V.J.**, C.E. Holden, C.E. Woodcock. 2018. Improved mapping of forest type using spectral-temporal Landsat features. *Remote Sensing of Environment*, 210, 193-207. doi.org/10.1016/j.rse.2018.02.064
- Pasquarella, V.J.**, B.A. Bradley and C.E. Woodcock. 2017. Near-real-time monitoring of insect defoliation using Landsat time series. *Forests* 8(8), 275; doi:10.3390/f8080275
- Pasquarella, V.J.**, C.E. Holden, L.K. Kaufman and C.E. Woodcock. 2016. From imagery to ecology: Leveraging time series of all available Landsat observations to map and monitor ecosystem state and dynamics. *Remote Sensing in Ecology and Conservation* 2(3): 152-170. doi:10.1002/rse2.24.

Additional Publications:

- Urbanowicz, C., **Pasquarella, V.J.**, and Stinson, K.A. 2018. Differences in landscape drivers of garlic mustard invasion within and across ecoregions. *Biological Invasions*. doi.org/10.1007/s10530-018-1896-8
- Nardin, W., S. Locatelli, **V. Pasquarella**, M.C. Rulli, C.E. Woodcock and S. Fagherazzi. 2016. Dynamics of a fringe mangrove forest detected by Landsat images in the Mekong river delta, Vietnam. *Earth Surface Processes and Landforms*. doi:10.1002/esp.3968
- Gopal, S., X. Tang, N. Phillips, M. Nomack, **V. Pasquarella**, and J. Pitts. 2016. Characterizing urban landscapes using fuzzy sets. *Computers, Environment and Urban Systems* 57: 212-223. doi:10.1016/j.compenvurbsys.2016.02.002
- Gopal, S., L. Kaufman, C. Holden, M. Ribera, **V. Pasquarella**, B. Shank and J. Pitts. 2015. Modeling Coastal and Marine Environmental Risks in Belize: The Marine Integrated Decision Analysis System (MIDAS). *Oceans & Coastal Management* 43(3): 217-237. doi:10.1080/08920753.2015.1030292
- Patel, H., S. Gopal, L. Kaufman, M. Carleton, C. Holden, **V. Pasquarella**, M. Ribera and B. Shank. 2011. MIDAS: A Spatial Decision Support System for Monitoring Marine Management Areas. *International Regional Science Review* 34(2): 191-214. doi:10.1177/0160017610389329

News and Media:

Crowley, M. Northeast Climate Adaptation Science Center Fellows Highlight: Valerie Pasquarella. 10 Sep. <https://necsc.umass.edu/news/fellows-highlight-valerie-pasquarella>

Interview segment featured in Google Earth Engine Summit 2018 Dublin Highlights. 15 Jun 2018. <https://www.youtube.com/watch?v=hkTBQ8QKcnE>

Elkinton, J., Boettner, J., and Pasquarella V. Gypsy moths in 2017: A pathogen epidemic. *Massachusetts Wildlife*. 1: 30-35. Invited feature.

USGS EROS. Image of the Week: Gypsy Moth Infestation Continues in New England. 28 Aug 2017. <https://www.usgs.gov/media/videos/image-week-gypsy-moth-infestation-continues-new-england>

Lathrop, J. New Satellite View of Gypsy Moth Damage in New England. *University of Massachusetts News Archive*. 5 Oct. <http://www.umass.edu/newsoffice/article/new-satellite-view-gypsy-moth-damage-new>

Natick: Seeking Sanctuary. *Chronicle*. ABC. WCVB, Boston. 28 Jul 2015. <http://www.wcvb.com/chronicle/natick-seeking-sanctuary/34408924>. Television.

Prince, A. At Our Sanctuaries: Integrating satellite remote sensing and on-the-ground observation. *Sanctuary: The Journal of the Massachusetts Audubon Society*. Summer 2014: 22-23. <http://www.massaudubon.org/content/download/12534/197327/file/mpa-sanctuary-summer2014-full.pdf>

Friday, L. GRS Students Create Exhibition at Broadmoor Wildlife Sanctuary: Mapping project inspires retrospective of work dating to early 1900s. *BU Today*. 12 Nov 2013. <http://www.bu.edu/today/2013/grs-students-create-exhibition-at-broadmoor-wildlife-sanctuary/>

Friday, L. CAS Provides Climate Change Primer to Eighth Graders: Field trip to BU “wicked awesome”. *BU Today*. 21 Jun 2011. <http://www.bu.edu/today/2011/cas-provides-climate-change-primer-to-eighth-graders/>

Friday, L. Global Change Reaches Middle School: Grant allows shared research, improved lesson plans. *BU Today*. 7 Apr 2010. <http://www.bu.edu/today/2010/global-change-reaches-middle-school/>