

**GEORGE C. HURTT**

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**a. History of Employment**

Science Team Leader, NASA Carbon Monitoring System	2012-
Research Director, Department of Geographical Sciences, University of Maryland	2010-
Professor of Geography, University of Maryland	2010-
Affiliate Professor, University of New Hampshire	2010-
Associate Director, Joint Global Change Research Institute, Pacific Northwest National Lab and University of Maryland	2011-2015
Associate Director for Research Innovations, National Socio-Environmental Synthesis Center	2011-2013
Director, Complex Systems Research Center	2009-2010
Chair, Natural Resources and Earth System Science Ph.D. Program	2008-2010
Associate Director, Complex Systems Research Center	2008-2009
Faculty Fellow, Research and Outreach Scholarship	2007-2008
Associate Professor of Natural Resources & Earth, Oceans and Space	2006-2010
Director, Research & Discover Internship/Fellowship Program	2002-2010
Assistant Professor of Natural Resources & Earth, Oceans and Space	2001-2006

**b. Educational Degrees**

Middlebury College	Biology	B.A.	1990
University of Connecticut	Ecology and Evolutionary Biology	M.S.	1992
Princeton University	Ecology and Evolutionary Biology	A.M.	1994
Princeton University	Ecology and Evolutionary Biology	Ph.D.	1997
Princeton University	Ecology and Evolutionary Biology	Postdoctoral	1998

**c. Research Experience\* (\*partial listing)**

- Hurtt, G. C. et al. (2020) Harmonization of Global Land-Use Change and Management for the Period 850-2100 (LUH2) for CMIP6. *Geoscientific Model Development Discussions*. 10.5194/gmd-2019-360
- Hurtt, G. C., et al. (2019) Beyond MRV: High-resolution forest carbon modelling for climate mitigation planning over MD, USA. *Environmental Research Letters*. 10.1088/1748-9326/ab0bbe
- Le Quéré, C. et al. (2018) The Global Carbon Budget 2017. *Earth System Science Data* 10:405-448. 10.5194/essd-10-405-2018
- Fisher, R., C. et al. (2017) Vegetation Demographics in Earth System Models: a Review of Progress and Priorities. *Global Change Biology*. 10.1111/gcb.13910
- Jantz, S., et al. (2015) Future habitat loss and extinctions in biodiversity hotspots under four climate change mitigation scenarios. *Conservation Biology*. 10.1111/cobi.12549
- Pereira, H. M. et al. (2013), Essential Biodiversity Variables for Global Earth Observation, *Science* 399 (6117): 277-278.
- Hurtt, G. C. et al. (2011) Harmonization of Land-Use Scenarios for the Period 1500-2100: 600 Years of Global Gridded Annual Land-Use Transitions, Wood Harvest, and Resulting Secondary Lands. *Climatic Change*. 10.1007/s10584-011-0153-2
- van Vuuren, D. P. et al. (2011) The Representative Concentration Pathways: An Overview. *Climatic Change*. 10.1007/s10584-011-0148-z.
- Pereira, H. M. et al. (2010) Scenarios for Global Biodiversity in the 21<sup>st</sup> Century. *Science*. doi:10.1126/science.1196624.

- Hurttt, G. C. et al. (2010) Linking Models and Data on Vegetation Structure: Quantifying Model-Data Requirements for Future Space-borne Missions. *Journal of Geophysical Research* 115 G00E10. 10.1029/2009JG000937
- Shevliakova, E. et al. (2009) Carbon Cycling Under 300 Years of Land-use Changes in the Dynamic Land Model LM3V. *Global Biogeochemical Cycles* 23(2): 1-16.
- Hurttt, G. C. et al. (2004) Beyond Potential Vegetation: Combining Lidar Remote Sensing and a Height-Structured Ecosystem Model for Improved Estimates of Carbon Stocks and Fluxes. *Ecological Applications* 14(3): 873-883.
- Roy, S. B. et al. (2003), Impact of Historical Land Cover Change on the July Climate of the United States. *Journal of Geophysical Research* 108, D24, 4793.
- Hurttt, G. C. et al. (2002) Projecting the Future of the US Carbon Sink. *Proceedings of the National Academy of Sciences of the United States (PNAS)* 99(3): 1389-1394.
- Moorcroft, P. R., G. C. Hurttt, S. W. Pacala (2001) A Method for Scaling Vegetation Dynamics: the Ecosystem Demography Model (ED). *Ecological Monographs* 71(4): 557-585.
- Pacala, S. W. et al. (2001) Consistent Land- and Atmosphere-Based U.S. Carbon Sink Estimates. *Science* 292:2316-2320.
- Caspersen, J., et al. (2000) Contributions of Land-Use History to Carbon Accumulation in U.S. Forests. *Science* 290 (5494): 1148-1151.
- Clark, J., et al. (1998) Dispersal Theory Offers Solutions to Reid's Paradox of Rapid Plant Migration. *Bioscience* 48(1): 13-24.
- Hurttt, G. C., S. W. Pacala (1995) The Consequences of Recruitment Limitation: Reconciling Chance, History and Competitive Differences Between Plants. *Journal of Theoretical Biology* 176:1-12.
- Colwell, R. K., G. C. Hurttt (1994) Nonbiological Gradients in Species Richness and a Spurious Rapoport's Rule. *The American Naturalist* 144(4): 570-595.

#### **d. Honors\***

- Distinguished Scholar-Teacher, University of Maryland 2019
- Honoree, Research Leaders Luncheon, University of Maryland 2011-2017
- Honoree, Celebration of Scholarship and Research, University of Maryland 2012, 2015
- Zayed International Prize for the Environment 2006
- University Outreach Scholar 2004
- NASA "Top Story" 2004
- Runner-up "Breakthrough of the Year", *Science* 2001

#### **e. Memberships\***

- American Geophysical Union (AGU) 2000-present
- Ecological Society of America (ESA) 1995-present

#### **f. Service\***

- Member, President's Transition Team, University of Maryland 2020-
- Chair, University Research Council, University of Maryland 2017-
- Lead Guest Editor, Focus on Carbon Monitoring Systems Research and Applications *Environmental Research Letters* 2017-
- Co-Chair, Land-Use Model Intercomparison Project (LUMIP), World Climate Research Program-CMIP6 2013-
- Associate Editor, *Global Biogeochemical Cycles* 2011-
- Chair, Undergraduate Committee, Department of Geographical Sciences 2016-17,18-19
- Chair, NASA Earth Science Senior Review 2011