

CURRICULUM VITAE**GEORGE CALEB HURTT**

Professor & Research Director
 Department of Geographic Sciences
 University of Maryland

1. PERSONAL INFORMATION**EDUCATION**

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

APPOINTMENTS

- Associate Director for Research Innovations, National Socio-Environmental Synthesis Center 2012-
- Associate Director, Joint Global Change Research Institute, Pacific Northwest National Lab and University of Maryland 2011-
- Research Director, Department of Geographical Sciences, University of Maryland 2010-
- Joint Appointment, Joint Global Change Research Inst., University of Maryland 2010-
- Professor of Geography, University of Maryland 2010-
- Affiliate Professor, University of New Hampshire 2010-
- 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
- Graduate Faculty, UNH 2000-2010
- Research Assistant Professor of Earth, Oceans, and Space, UNH 1998-2001
- Postdoctoral Fellow, Princeton University 1997-1998

2. RESEARCH, SCHOLARLY and CREATIVE ACTIVITIES

¹Primary contributor, ²Principal contributor with first author, ³Principal investigator on research presented (contribution to the paper generation), ⁴Contributor only. *student participant, +postdoc participant

CHAPTERS IN BOOKS

PUBLISHED

1. Palace, M., M. Keller, **G. C. Hurtt**⁴, S. Frolking (2012), A Review of Above Ground Necromass in Tropical Forests, Pages 215-252 In: Tropical Forests (P. Sudarshana, M. Nageswara-Rao, J. R. Soneji, eds.). InTech, Rijeka, Croatia. ISBN: 978-953-51-0255-7.
2. Cardoso*, M., **G. C. Hurtt**^{2,3} (2010), Potential for Advancing Fire Research in Amazonia by Integrating Ground-based, Remote-sensing and Modeling Studies for the Region. In: *Forest Fires: Detection, Suppression, and Prevention* (E. Gomez and K. Alvarez, eds.). Nova Science Publishers, Inc. ISBN: 978-1-60741-716-3.
3. **Hurtt**¹, **G. C.** (2009), Biodiversity and Ecosystems: Engaging Students in the Science. In: *The Sustainable Learning Community: One Universities' Journey to the Future* (J. Aber, T. Kelly, B. Mallory, eds.). University Press of New England, Lebanon, NH.
4. de Guenni, L. B., M. Cardoso*, J. Goldammer, **G. C. Hurtt**⁴, L. J. Mata, K. Ebi, J. House, J. Valdes (2005), Regulation of Natural Hazards: Floods and Fires, Ch. 16 In: *Ecosystems and Human Well Being: Current State and Trends: Findings of the Condition and Trends Working Group* (R. Hassan, R. Scholes, N. Ash, eds.). The Millennium Ecosystem Assessment Series, Vol. 1, Island Press, Washington.
5. **Hurtt**¹, **G. C.**, S. Hale, B. Rock (2002), Historic and Future Climates of the New England Region. Ch 4 In: *Preparing for a Changing Climate: The Potential Consequences of Climate Variability and Change. New England Regional Foundation Report* (by New England Regional Assessment Group). U.S. Global Change Research Program, 108pp, University of New Hampshire.
6. **Hurtt**¹, **G. C.**, S. Hale (2001), Future climates of the New England Region. Ch 4 In: *Preparing for a Changing Climate: The New England Regional Assessment Overview* (by New England Regional Assessment Group). U.S. Global Change Research Program. 96 pp. University of New Hampshire.
7. Pacala, S. W., **G. C. Hurtt**², P. Moorcroft, J. Caspersen (2001), Carbon Storage in the U.S. Caused by Land-use Change, Pages 145-172 In: *Present and Future of Modeling Global Environmental Change: Toward Integrated Modeling* (T. Matsuno, H. Kida, eds.). Terra Scientific Publishing, Japan.
8. Pacala, S. W., **G. C. Hurtt**² (1993), Terrestrial Vegetation and Climate Change: Integrating Models and Experiments. Pages 57-74 In: *Biotic Interactions and Global Change* (J. Kingsolver, P. M. Kareiva, R. B. Huey, eds.). Sinauer.

ARTICLES IN REFEREED JOURNALS

SUBMITTED FOR PUBLICATION

1. Fisk^{*}, J. P., **G. C. Hurtt**^{2,3}, J. Q. Chambers, H. Zeng. The net impacts of tropical cyclones on the carbon balance of eastern U.S. forests. *Environmental Research Letters*.
2. D'Almedia^{*}, C., C. Vorosmarty, J. Marengo, **G. Hurtt**⁴, B. Keim, S. L. Dingman, Local Effects of River Discharge due to Deforestation in Amazonia During El Nino and La Nina Years. *Geophysical Research Letters*.
3. **Hurtt**^{1,3}, **G. C.**, R. Q. Thomas, J. P. Fisk^{*}, R. Dubayah, S. Sheldon, Using Repeat Lidar Data on Changes in Vegetation Height to Test Model Predictions of Vegetation Dynamics, *Remote Sensing of Environment*.
4. LePage⁺, Y., **G. C. Hurtt**^{2,3}, A. M. Thomson, B. Bond-Lamberty, P. Patel, M. Wise, K. Calvin, P. G. Kyle, L. Clarke, J. Edmonds, A. Janetos, Sensitivity of climate mitigation strategies to natural disturbances, *Environmental Research Letters*.
5. Edmonds, J., A. D. Jones, A. Janetos, P. Thornton, B. Bond-Lamberty, K. Calvin, L. Chini, **G. Hurtt**⁴, W. Collins, J. Mao, X. Shi, A. Thomson, M. Wise, M. Torn. Land-use policy complicates radiative forcing and the IPCC climate assessment process, *Nature*.
6. Shevliakova, E., R. J. Stouffer, S. Malyshev, J. P. Krasting, **G. C. Hurtt**⁴, S. W. Pacala. Land carbon sink mitigated 20th century climate warming, *Science*.
7. Brovkin, V., L. Boysen, V. K. Arora, J. P. Boisier, P. Cadule, L. Chini, M. Claussen, P. Friedlingstein, V. Gayler, B. J. J. M. van den Hurk, **G. C. Hurtt**⁴, C. D. Jones, E. Kato, N. de Noblet-Ducoudré, F. Pacifico, J. Pongratz, M. Weiss. Effect of anthropogenic land-use and land cover changes on climate and land carbon storage in CMIP5 projections for the 21st century, *J. Climate*.
8. Pereira, H. M., S. Ferrier, M. Walters, G.N. Geller, R.H.G. Jongman, R.J. Scholes, M. W. Bruford, N. Brummitt, S.H.M. Butchart, A.C. Cardoso, N.C. Coops, E. Dulloo, D.P. Faith, J. Freyhof, R.D. Gregory, C. Heip, R. Höft, **G. Hurtt**⁴, W. Jetz, D. Karp, M.A. McGeoch, D. Obura, Y. Onoda, N. Pettorelli, B. Reyers, R. Sayre, J.P.W. Scharlemann, S.N. Stuart, E. Turak, M. Walpole, M. Wegmann. Essential Biodiversity Variables for Global Earth Observation, *Science*.

IN PRESS

1. Jones, A. D., W. D. Collins, J. Edmonds, M. S. Torn, A. Janetos, K. V. Calvin, A. Thomson, L. P. Chini, J. Mao, X. Shi, P. Thornton, **G. C. Hurtt**⁴, M. Wise. Greenhouse Gas Policy Influences Climate via Direct Effects of Land-Use Change, *J. Climate*.

PUBLISHED

1. Hall, F., K. Bergen, J. B. Blair, R. Dubayah, W. Emanuel, R. Houghton, **G. C. Hurtt**⁴, J. Kellendorfer, J. Ranson, S. Saatchi, D. Wickland (2011). Characterizing 3-D Vegetation Structure From Space: Mission Capabilities Requirements. *Remote Sensing of Environment*, 115: 2753-2755.
2. **Hurtt**^{1,3}, **G. C.**, L. P. Chini⁺, S. Frohling, R. Betts, J. Feedema, G. Fischer, J. Fisk^{*}, K. Hibbard, R. Houghton, A. Janetos, C. Jones, G. Kindermann, T. Kinoshita, K. Klein Goldewijk, K. Riahi,

- E. Shevliakova, S. Smith, E. Stehfest, A. Thomson, P. Thornton, D. van Vuuren, Y. Wang (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*. DOI: 10.1007/s10584-011-0153-2
3. van Vuuren, D. P., J. Edmonds, M. Kainuma, K. Riahi, A. Thomson, K. Hibbard, **G. Hurtt**⁴, T. Kram, V. Krey, J.F. Lamarque, T. Matsui, M. Meinshausen, N. Nakicenovic, S. J. Smith, S. K. Rose (2011), The Representative Concentration Pathways: An Overview. *Climatic Change*. DOI 10.1007/s10584-011-0148-z.
 4. Jones, C. D., J. K. Hughes, N. Bellouin, S. C. Hardiman, G. S. Jones, J. Knight, S. Liddicoat, F. M. O'Connor, R. J. Andres, C. Bell, K.-O. Boo, A. Bozzo, N. Butchart¹, P. Cadule, K. D. Corbin, M. Doutriaux-Boucher, P. Friedlingstein, J. Gornall, L. Gray, P. R. Halloran, **G. Hurtt**⁴, W. Ingram, J.-F. Lamarque, R. M. Law, M. Meinshausen, S. Osprey, E. J. Palin, L. Parsons Chini, T. Raddatz, M. Sanderson, A. A. Sellar, A. Schurer, P. Valdes, N. Wood, S. Woodward, M. Yoshioka, and M. Zerroukat (2011), The HadGEM2-ES Implementation of CMIP5 Centennial Simulations. *Geoscientific Model Development Discussions* 4 689-763. DOI:10.5194/gmdd-4-689-2011.
 5. Williams, J. E., C. Wake, L. B. Hayden, E. D. Abrams, **G. C. Hurtt**⁴, W. B. N. Rock, K. G. Graham, S. Hale, W. Porter, R. Blackmon, M. LeCompte, D. Johnson (2011), Building a Model of Collaboration Between Historically Black and Historically White Universities. *Journal of Higher Education Outreach and Engagement* 15(2):35-55.
 6. Wake, C. P., M. Frades, M. Magnusson, R. Gittel, C. Skoglund, J. Morin, **G. Hurtt**⁴. Collaborative and Transparent Production of Decision-Relevant Information for New Hampshire's Climate Action Plan. *The Northeastern Geographer* 3, 1-21.
 7. Morton, D. C., R. S. DeFries, J. Nagol, C. M. Souza, E. S. Kasischke, **G. C. Hurtt**⁴, R. Dubayah (2011), Mapping Canopy Damage from Understory Fires in Amazon Forests. *Remote Sensing of Environment* 115(7):1706-1720.
 8. Dolan^{*}, K. A., **G. C. Hurtt**^{2,3}, J. Chambers, R. Dubayah, S. Frolking (2011), Using ICESat's Geoscience Laser Altimeter System to Assess Large Scale Forest Disturbance Caused by Hurricane Katrina. *Remote Sensing of Environment* 115(1): 86-96. doi: 10.1016/j.rse.2010.08.007.
 9. Pereira, H. M., P. W. Leadley, V. Proenca, R. Alkemade, J. P. W. Scharlemann, J. F.. Fernandez-Manjarres, M. B. Araujo, P. Balvanera, R. Biggs, W. W. L. Cheung, L. Chini, H. D. Cooper, E. L. Gilman, S. Guenette, **G. C. Hurtt**⁴, H. P. Huntington, G. M. Mace, T. Oberdorff, C. Revenga, P. Rodrigues, R. J. Scholes, U. R. Sumaila, M. Walpole (2010), Scenarios for Global Biodiversity in the 21st Century. *Science*. doi:10.1126/science.1196624.
 10. Thomson, A. M., K. V. Calvin, L. P. Chini⁺, **G. C. Hurtt**⁴, J. A. Edmonds, B. Bond-Lamberty, S. Frolking, M. A. Wise, A. C. Janetos (2010), Climate mitigation and the future of tropical landscapes. *Proceedings of the National Academy of Sciences (PNAS)*. doi: 10.1073/pnas.0910467107.
 11. **Hurtt**^{1,3}, **G. C.**, J. Fisk^{*}, R. Q. Thomas^{*}, R. Dubayah, P. R. Moorcroft, H. H. Shugart (2010), Linking Models and Data on Vegetation Structure: Quantifying Model-Data Requirements for Future Space-borne Missions. *Journal of Geophysical Research* 115 G00E10. DOI:10.1029/2009JG000937
 12. Dubayah, R. O., S. L. Sheldon, D. B. Clark, M. A. Hofton, J. B. Blair, **G. C. Hurtt**⁴, R. L. Chazdon (2010), Estimation of Tropical Forest Height and Biomass Dynamics Using Lidar Remote Sensing. *Journal of Geophysical Research* 115, G00E09, doi:10.129/2009JG000933.

13. Chambers, J., R. Negron-Juarez, **G. C. Hurtt**², D. Marra, N. Higuchi (2009), Lack of intermediate-scale disturbance data prevents robust extrapolation of plot-level tree mortality rates for old-growth tropical forests. *Ecology Letters* 12: E22-E25.
14. Frolking, S., M. W. Palace, D. B. Clark, J. Q. Chambers, H. H. Shugart, **G. C. Hurtt**⁴ (2009), Forest Disturbance and Recovery- A General Review in the Context of Space-Borne Remote Sensing of Impacts on Above-Ground Biomass and Canopy Structure. *Journal of Geophysical Research-B* 114:1-27.
15. Shevliakova, E., S. W. Pacala, S. Malyshev, **G. C. Hurtt**², P. C. D. Milly, J. P. Caspersen, L. Sentman, J. Fisk*, C. Wirth, C. Crevoisier (2009), Carbon Cycling Under 300 Years of Land-use Changes in the Dynamic Land Model LM3V. *Global Biogeochemical Cycles* 23(2): 1-16.
16. Zeng, H., J. Q. Chambers, R. I. Negron-Jarez, **G. C. Hurtt**⁴, D. B. Baker, M. D. Powell (2009), Impacts of U.S. Tropical Cyclones on Forest Tree Mortality and Carbon Flux over the Past 150 years. *Proceedings of the National Academy of Sciences (PNAS)*. Doi: 10.1073/pnas.0808914106.
17. Thomas*, R. Q., **G. C. Hurtt**^{2,3}, R. Dubayah, M. Schilz* (2008), Using Lidar Data and a Height Structured Ecosystem Model to Estimate Forest Carbon Stocks and Fluxes Over Mountainous Terrain. *Canadian Journal of Remote Sensing* 34(2): S351-S363.
18. Ito, A., J. E. Penner, M. J. Prather, C. P. de Campos, R. A. Houghton, T. Kato, A. K. Jain, X. Yang, **G. C. Hurtt**⁴, S. Frolking, M. J. Fearon, L. P. Chini, A. Wang, D. T. Price (2008), Can We Reconcile Differences in Estimates of Carbon Fluxes from Land-Use Change and Forestry for the 1990s? *Atmospheric Chemistry and Physics* 8(12): 3291-3310.
19. Fisher⁺, J., **G. C. Hurtt**², R. Q. Thomas*, J. Q. Chambers (2008), Clustered Disturbances Lead to Bias in Large-Scale Estimates Based on Forest Sample Plots. *Ecology Letters* 11: 554-563.
20. Goward, S. N., L. W. Underwood, M. G. Fearon, R. Fletcher, J. B. Garvin, **G. C. Hurtt**⁴, J. Jensen, M. Nolan, K. Holekamp, M. Pagnutti, R. E. Ryan, T. Stanley, T. E. Frisbie, W. Swearingen (2008), NASA's Earth Science Use of Commercially Available Remote Sensing Datasets. *Photogrammetric Engineering & Remote Sensing* (February): 139-146.
21. Chambers, J. Q., J. I. Fisher⁺, H. Zeng, E. L. Chapman, D. B. Baker, **G. C. Hurtt**⁴ (2007), Hurricane Katrina's Footprint on U.S. Gulf Coast Forests. *Science* 318: 1107.
22. D'Almeida*, C., C. J. Vorosmarty, **G. C. Hurtt**⁴, J. A. Marengo, S. L. Dingman, B. D. Keim (2007), The Effects of Deforestation on the Hydrological Cycle in Amazonia: A Review on Scale and Resolution. *International Journal of Climate* 27: 633-647.
23. Girod*, C., **G. C. Hurtt**^{2,3}, S. Frolking, J. Aber, A. W. King (2007), The Tension Between Fire Risk and Carbon Storage: Evaluating U.S. Carbon and Fire Management Strategies Through Ecosystem Models. *Earth Interactions* 11(2): 1-33.
24. D'Almeida*, C., C. J. Vorosmarty, J. A. Marengo, **G. C. Hurtt**⁴, S. L. Dingman, B. D. Keim (2006), A Water Balance Model to Study the Hydrological Response to Different Scenarios of Deforestation in the Amazon. *Journal of Hydrology* 331:125-136.
25. Albani, M., D. Medvigy, **G. C. Hurtt**⁴, P. R. Moorcroft (2006), The Contributions of Land-use Change, CO₂ fertilization, and Climate Variability to the Eastern U.S. Carbon Sink. *Global Change Biology* 12: 2370-2390.
26. **Hurtt**¹, **G. C.**, C. Wake, T. Wawrzyniak*, A. Frappier*, C. Girod*, L. Seidel, V. Salomonson (2006), Broadening Students Horizons: the Development, Delivery, and Assessment of a New Course in Earth System Science. *Journal of Geoscience Education* 54(3): 329-338.

27. **Hurtt^{1,3}, G. C.**, S. Frolking, M. G. Fearon, B. Moore III, E. Shevliakova, S. Malyshev, S. W. Pacala, R. A. Houghton (2006), The Underpinnings of Land-use History: Three Centuries of Global Gridded Land-Use Transitions, Wood Harvest Activity, and Resulting Secondary Lands. *Global Change Biology* 12:1208-1229.
28. Cardoso*, M., **G. C. Hurtt²**, C. Nobre, B. Moore III, H. Bain* (2005), Field Work and Statistical Analyses for the Enhanced Interpretation of Satellite Fire Data. *Remote Sensing of Environment* 96: 212-227.
29. Zarin, D., E. A. Davidson, E. Brondizio, I. C. G. Vieira, T. Sá, T. Feldpausch, T. Schuur, R. Mesquita, E. Moran, P. Delamonica, M. J. Ducey, **G. C. Hurtt⁴**, C. Salimon, M. Denich (2005), Legacy of Fire Slows Carbon Accumulation in Amazonian Forest Regrowth. *Frontiers in Ecology and the Environment* 7(3): 365-369.
30. **Hurtt¹, G. C.**, R. Dubayah, J. Drake*, P. Moorcroft, S. Pacala, M. Fearon (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.
31. Purves, D., J. Caspersen, P. Moorcroft, **G. C. Hurtt⁴**, S. Pacala (2004), Human-induced Changes in U.S. Biogenic VOC Emissions. *Global Change Biology* 10:1737-1755.
32. Roy, S. B., **G. C. Hurtt^{2,3}**, C. P. Weaver, S. W. Pacala (2003), Impact of Historical Land Cover Change on the July Climate of the United States. *Journal of Geophysical Research* 108, D24, 4793.
33. **Hurtt^{1,3}, G. C.**, X. Xiao, M. Keller, M. Palace*, G. Asner, R. Braswell, E. Brondizio, M. Cardoso*, C. Carvalho, M. Fearon, L. Guild, S. Hagen+, B. Moore III, C. Nobre, T. Sá, A. Schloss, G. Vourlitis, A. Wickel (2003), IKONOS Imagery for the Large Scale Biosphere-Atmosphere Experiment in Amazonia (LBA). *Remote Sensing of Environment* 88(1-2): 111-127.
34. Cardoso*, M., **G. C. Hurtt^{2,3}**, B. Moore III, C. Nobre, E. Prins (2003), Projecting Future Fire Activity in Amazonia. *Global Change Biology* 9: 656-669.
35. **Hurtt^{1,3}, G. C.**, S. W. Pacala, P. R. Moorcroft, J. Caspersen, E. Shevliakova, R. Houghton, B. Moore III (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.
36. Moorcroft, P. R., **G. C. Hurtt^{2,3}**, S. W. Pacala (2001) A Method for Scaling Vegetation Dynamics: the Ecosystem Demography Model (ED). *Ecological Monographs* 71(4): 557-585.
37. Keller, M., M. Palace*, **G. C. Hurtt⁴** (2001), A Biomass Estimate for a 400 ha Forest Plot in Amazonia. *Forest Ecology and Management* 154(3): 371-382.
38. **Hurtt¹, G. C.**, L. Rosentrater, S. Frolking, B. Moore III (2001), Linking Remote-sensing Estimates of Land Cover and Census Statistics on Land Use to Produce Maps of Land Use of the Conterminous United States. *Global Biogeochemical Cycles* 15(3): 673-685.
39. Norby, R., K. Ogle, P. Curtis, F. W. Badek, A. Huth, **G. C. Hurtt⁴**, T. Kohyama, J. Penuelas (2001), Above Ground Growth and Competition in Forest Gap Models: an Analysis for Studies of Climatic Change. *Climatic Change* 51(3-4): 415-447.
40. Pacala, S. W., **G. C. Hurtt^{2,3}**, D. Baker, P. Peylin, R. A. Houghton, R. A. Birdsey, L. Heath, E. T. Sundquist, R. F. Stallard, P. Ciais, P. Moorcroft, J. P. Caspersen, E. Shevliakova, B. Moore III, G. Kohlmaier, E. Holland, M. Gloor, M. E. Harmon, S. M. Fan, J. L. Sarmiento, C. L. Goodale, D. Schimel, C. B. Field (2001), Consistent Land- and Atmosphere-Based U.S. Carbon Sink Estimates. *Science* 292:2316-2320.

41. Caspersen, J., S. W. Pacala, J. C. Jenkins, **G. C. Hurtt**⁴, P. R. Moorcroft, R. A. Birdsey (2000), Contributions of Land-Use History to Carbon Accumulation in U.S. Forests. *Science* 290 (5494): 1148-1151.
42. **Hurtt**^{1,3}, **G. C.**, R. A. Armstrong (1999), A Pelagic Ecosystem Model Calibrated With BATS and OWSI Data. *Deep-Sea Research I* 46:27-61.
43. **Hurtt**^{1,3}, **G. C.**, P. R. Moorcroft, S. W. Pacala, S. A. Levin (1998), Terrestrial Models and Global Change: Challenges for the Future. *Global Change Biology* 4(5): 581-590.
44. Clark, J., C. Fastie, **G. C. Hurtt**⁴, S. Jackson, C. Johnson, G. King, M. Lewis, J. Lynch, S. Pacala, C. Prentice, E. Schupp, T. Webb, P. Wycoff (1998), Dispersal Theory Offers Solutions to Reid's Paradox of Rapid Plant Migration. *Bioscience* 48(1): 13-24.
45. **Hurtt**^{1,3}, **G. C.**, R. A. Armstrong (1996), A Pelagic Ecosystem Model Calibrated with BATS Data. *Deep-Sea Research II* 43(2-3):653-683.
46. **Hurtt**¹, **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.
47. Colwell, R. K., **G. C. Hurtt**² (1994), Nonbiological Gradients in Species Richness and a Spurious Rapoport's Rule. *The American Naturalist* 144(4):570-595.

MONOGRAPHS, REPORTS, AND EXTENSION PUBLICATIONS

1. Leadly, P., H. M. Pereira, R. Alkenade, V. Proenca, J. Scharlemann, M. Walpole, J. Agard, M. Araujo, A. Balmford, P. Balvanera, O. Biggs, L. Bopp, W. Cheung, P. Ciais, D. Cooper, J. C. Ellison, J. F. Fernandez-Manjarres, J. Figueiredo, E. Gilman, S. Guenette, B. Hugueny, **G. C. Hurtt**⁴, H. Huntington, M. Jennings, F. Leprieur, C. Le Quere, G. Mace, C. Mbow, K. Mooney, A. Neuville, T. Oberdorf, C. Ravenga, J. C. Robertson, P. Rodrigues, J. C. R. Gordo, H. Sato, B. Scholes, M. Stafford-Smith, U. R. Sumaila, P. A. Tedesco (2010) Biodiversity Scenarios: Projections of 21st Century Change in Biodiversity and Associated Ecosystem Services. Secretariat of the Convention on Biological Diversity, Montreal. Technical Series no. 50, 132 pages.
2. **Hurtt**¹, **G. C.**, L. P. Chini⁺, S. Frolking, R. Betts, J. Feedema, G. Fischer, K. Klein Goldewijk, K. Hibbard, A. Janetos, C. Jones, G. Kindermann, T. Kinoshita, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. Thomson, P. Thornton, D. van Vuuren, Y. Wang (2009), Harmonization of Global Land-Use Scenarios for the Period 1500-2100 for IPCC-AR5. *Integrated Land Ecosystem-Atmosphere Processes Study (iLEAPS) Newsletter* 7:6-8.
3. Meehl, G. A., K. Hibbard, R. Stouffer, N. Nakicenovic, P. Rasch, C. Granier, D. Kicklighter, G. Brasseur, D. Rind, M. Kimoto, M. Kawamiya, P. Cox, O. Boucher, J. Katzenberger, N. McFarlane, **G. C. Hurtt**⁴, R. Moss, S. Smith, D. Bader, G. Meehl, D. Lawrence, J. F. Lamarque, L. Mearns, P. Gent, S. Bookhout, M. Masone (2007), A Strategy for Climate Change Stabilization Experiments with AOGCMs and ESMs, *WCRP Report 3/2007, ICPO Pub. 112, IGBP Report 57*.
4. Cardoso^{*}, M., **G. C. Hurtt**² (2000), Fires and Land-Cover Dynamics in Amazonia. *BACH News* 8: 14-16.
5. Christian, J., J. Ammerman, L. Campbell, F. Chai, F. Chavez, S. Doney, G. Evans, **G. C. Hurtt**⁴, W. Jenkins, Z. Johnson, R. Letelier, H. Loukos, J. Moisan, Y. Spitz (1998), Nutrient Limitation and Phytoplankton Community Structure. *U.S. JGOFS Planning Rep* 21:21-26.

6. **Hurtt^{1,3}, G. C.** (1997) *Ocean Ecosystem Models for Use in Studies of the Air-sea Balance of Carbon Dioxide*. PhD Thesis. Princeton University.
7. **Hurtt¹, G. C.** (1992), *The Consequences of Recruitment Limitation*. M.S. Thesis. Univ. of Connecticut.

BOOK REVIEWS, OTHER ARTICLES, AND NOTES

1. Thomas^{*}, R. Q., **G. C. Hurtt²** (2011), Increases in the flux of carbon belowground stimulate nitrogen uptake and sustain the long-term enhancement of forest productivity under elevated CO₂, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
2. Dolan^{*}, K., **G. C. Hurtt²** (2011), Implications of future disturbance regimes on the carbon balance of Canada's managed forest (2010-2100), *Faculty of 1000 Biology*, <http://www.f1000biology.com>
3. Dolan^{*}, K., **G. C. Hurtt²** (2010), A global overview of drought and heat-induced tree mortality reveals emerging climate change risks for forests, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
4. Dolan^{*}, K., **G. C. Hurtt²** (2010), Dynamics of national forests assessed using Landsat record: case studies in Eastern United States, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
5. Thomas^{*}, R. Q., **G. C. Hurtt²** (2009), Impact of changes in diffuse radiation on the global land carbon sink, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
6. Chini[†], L., **G. C. Hurtt²** (2009), Carbon sequestration due to the abandonment of agriculture in the former USSR since 1990, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
7. Fisk^{*}, J., **G. C. Hurtt²** (2009), Widespread increase of tree mortality rates in the western United States, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
8. **Hurtt¹, G. C.** (2008), Has Fire Suppression Increased the Amount of Carbon Stored in Western U.S. Forests? *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
9. **Hurtt¹, G. C.** (2007), Could the Tree Diversity Pattern in Europe be Generated by Postglacial Dispersal Limitation? *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
10. **Hurtt¹, G. C.** (2007), Decelerating Growth in Tropical Forest Trees, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
11. **Hurtt¹, G. C.** (2007), Quantifying the Evidence for Biodiversity Effects on Ecosystem Functioning and Services, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
12. **Hurtt¹, G. C.** (2006), The Regional Variation of Aboveground Live Biomass in Old-growth Amazonian Forests, *Faculty of 1000*, <http://www.f1000.com>.
13. **Hurtt¹, G. C.** (2006), Species Loss and Above Ground Carbon Storage in a Tropical Forest, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
14. **Hurtt¹, G. C.** (2005), Fire History and the Global Carbon Budget: a 1°x 1° Fire History Reconstruction for the 20th century, *Faculty of 1000 Biology*, <http://www.f1000biology.com>.
15. **Hurtt¹, G. C.** (1997), Modeling Biological Systems: Principles and Applications (J. W. Haefner, Chapman & Hall, 473 pp.), *Journal of Marine Biology and Ecology* 218(1):156-157.

TALKS, ABSTRACTS, AND OTHER PROFESSIONAL PAPERS PRESENTED (2000+)

INVITED TALKS

1. **Hurtt, G. C.**^{1,3} (2012) Land-Use Harmonization Future Developments. Land-use Change Workshop, University of Exeter, Exeter, UK, 17 Oct.
2. **Hurtt**^{1,3}, **G. C.**, J. Fisk^{*}, J. Q. Chambers, L. P. Chini, K. Dolan^{*}, R. Dubayah, L. Duncanson^{*}, S. Flanagan^{*}, S. Frolking, C. Huang, J. G. Masek, D. C. Morton, Y. Le Page⁺, R. I. Negrón Juárez, E. Shevliakova, P. E. Thornton, H. Zeng (2012) Modeling the Impacts of Disturbance Events on the Carbon Balance of Ecosystems Over Large Regions, Presented at the 2012 Annual Meeting of the American Association of Geographers, New York, NY 25 Feb.
3. Dubayah, R., **G. C. Hurtt**^{2,3}, et al. (2012). County-scale carbon estimation in NASA's carbon Monitoring System. Presented at the 2012 Annual Meeting of the American Association of Geographers, New York, NY 25 Feb.
4. Janetos, A. C., J. Edmonds, K. Calvin, M. Wise, A. Thomson, G. C. Hurtt⁴, K. Hibbard (2011) The role of land in climate policy - and the role of climate policy in the future of land resources over the coming decades, Abstract GC31D-05 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.
5. Thornton, P. E., J. Mao, X. Shi, J. Edmonds, W. Collins, **G. C. Hurtt**⁴, L. P. Chini, A. M. Thomson, A. C. Janetos (2011) The influence of prognostic land use on 21st century climate prediction, Abstract GC22C-02 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.
6. **Hurtt**^{1,3}, **G. C.**, L. P. Chini, S. Frolking, J. P. Fisk^{*}, R. A. Houghton, S. Jantz^{*}, C. D. Jones, K. K. Goldewijk, Y. Le Page⁺, E. Shevliakova, A. Thomson, P. E. Thornton (2011) Land-Use in Climate Models: Lessons, Limitations, and Challenges for the Future, Abstract GC31D-08 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.
7. **Hurtt**^{1,3}, **G. C.**, J. Fisk^{*}, J. Q. Chambers, L. P. Chini, K. Dolan^{*}, R. Dubayah, L. Duncanson^{*}, S. Flanagan^{*}, S. Frolking, C. Huang, J. G. Masek, D. C. Morton, Y. Le Page⁺, R. I. Negrón Juárez, E. Shevliakova, P. E. Thornton, H. Zeng (2011) Modeling the Impacts of Disturbance Events on the Carbon Balance of Ecosystems Over Large Regions, Abstract B21J-02 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.
8. **Hurtt**^{1,3}, **G. C.** (2011) Global Land-use Datasets for Earth System Modeling: Lessons, Limitations, and Challenges Ahead, Land Use Land Cover Change (LULCC) Kick-off Meeting, iLEAPS Science Conference, Garmish, Germany.
9. **Hurtt**^{1,3}, **G. C.** (2011) Emerging Model-Data Requirements for Land-use Information, LCLUC Science Team Meeting, NASA Carbon Cycle and Ecosystems Joint Science Workshop, Alexandria, VA.
10. **Hurtt**^{1,3}, **G. C.** Status of Global Land-use Datasets (2011) International Geosphere-Biosphere Program iLEAPS Land-use Land Cover Change Kickoff Meeting, Garmisch, Germany.
11. **Hurtt**^{1,3}, **G. C.** (2011) Understanding Land Transitions, Energy Modeling Forum, Snowmass, CO.
12. **Hurtt**^{1,3}, **G. C.** (2011) Towards Integrated Land-use Modeling. 15th Anniversary NASA Land Cover Land-Use Change Meeting, University of Maryland, College Park, MD.
13. **Hurtt**^{1,3}, **G. C.** (2011) Land-use Harmonization for IPCC-AR5. University of Connecticut, Storrs, CT.

14. **Hurtt^{1,3}, G. C.**, R. Dubayah, J. Fisk, R. Q. Thomas, K. A. Dolan*, H. H. Shugart (2010), Terrestrial Ecosystem Dynamics Over Complex Terrain: Challenges for the Future, Abstract U33B-02 presented at the 2010 Fall Meeting, AGU, San Francisco, CA, 13-17 Dec.
15. **Hurtt^{1,3}, G. C.**, R. Dubayah, J. Fisk, K. A. Dolan, H. H. Shugart (2010), Using Data on Vegetation Structure to Initialize and Test Ecosystem Models, Abstract B44C-04 presented at the 2010 Fall Meeting, AGU, San Francisco, CA, 13-17 Dec.
16. Dubayah, R., A. Swatantran, M. A. Hofton, B. Blair, **G. C. Hurtt⁴** (2010), Three-Dimensional Vegetation Structure from Lidar Remote Sensing: An Overview, Abstract B44C-02 presented at the 2010 Fall Meeting, AGU, San Francisco, CA, 13-17 Dec.
17. **Hurtt^{1,3}, G. C.** (2010), Land-use Change and Earth System Dynamics: Advancing the Science, Department of Atmospheric and Oceanic Sciences, University of Maryland, College Park, 28 Oct.
18. **Hurtt^{1,3}, G. C.**, L. P. Chini⁺, S. Frolking, R. Betts, J. Edmonds, J. Feedema, G. Fischer, K. Klein Goldewijk, K. Hibbard, R. Houghton, A. Janetos, C. Jones, G. Kindermann, T. Kinoshita, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. Thomson, P. Thornton, D. van Vuuren, Y. Wang (2010), Land-Use Change and Earth-System Dynamics: Advancing the Science, European Geosciences Union, Vienna, Austria.
19. **Hurtt^{1,3}, G. C.** (2010), Harmonization of Global Land-Use Scenarios for the Period 1500-2300 for IPCC-AR5, University of Hawaii, Honolulu, HI.
20. Michalak, A., **G. C. Hurtt^{2,3}** (2010), Carbon Cycle Research Synthesis, NASA Terrestrial Ecology Science Team Meeting, La Jolla, CA.
21. **Hurtt¹, G. C.** (2009), Harmonization of Global Land-Use Scenarios for the Period 1500-2100 for IPCC-AR5, Boston University, Boston, MA.
22. **Hurtt¹, G. C.**, J. Fisk*, P. Moorcroft, R. Dubayah, H. Shugart, K. Dolan* (2009), Linking models and data on vegetation structure, Woods Hole Research Center, Woods Hole, MA.
23. **Hurtt¹, G. C.**, E. Shevliakova, L. Sentman, S. Malyshev, R. Stouffer (2009), Progress in land use/ land cover with the GFDL GCMs and ESMs. Workshop on Land use and Wetlands in AR5 models, Max Planck Institute, Hamburg, Germany.
24. **Hurtt¹, G. C.**, L. P. Chini⁺, S. Frolking, R. Betts, J. Feedema, G. Fischer, K. Klein Goldewijk, K. Hibbard, A. Janetos, C. Jones, G. Kindermann, T. Kinoshita, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. Thomson, P. Thornton, D. van Vuuren, Y. Wang (2009), Harmonization of Global Land-Use Scenarios for IPCC-AR5, Workshop on Land use and Wetlands in AR5 models, Max Planck Institute, Hamburg, Germany.
25. **Hurtt¹, G. C.**, L. P. Chini⁺, S. Frolking, R. Betts, J. Feedema, G. Fischer, K. Klein Goldewijk, K. Hibbard, A. Janetos, C. Jones, G. Kindermann, T. Kinoshita, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. Thomson, P. Thornton, D. van Vuuren, Y. Wang (2009), Harmonization of Global Land-Use Scenarios for IPCC-AR5, National Center for Atmospheric Research, Boulder, CO.
26. **Hurtt^{1,3}, G. C.** (2008), The Emerging Field of Sustainability Science, Environmental Science Seminar Series, University of New Hampshire, Durham, NH.
27. **Hurtt^{1,3}, G. C.**, J. Fisk*, S. Frolking, E. Shevliakova, S. Malyshev, S. Pacala (2008), Strategy for Global Land-use Modeling, International Geosphere Biosphere Program Integrated Land Ecosystem-Atmosphere Process Study, Hyeres, France.
28. **Hurtt¹, G. C.**, P. Moorcroft, R. Dubayah, J. Fisk* (2008), Vegetation Structure Modeling and Observations, NASA DESDynI Planning Workshop, Greenbelt, MD.

29. **Hurtt^{1,3}, G. C.**, S. Frolking, L. Chini⁺ (2008), Land Use Harmonization 1: Strategy, Methods, Preliminary Results, Energy Modeling Forum, Snowmass, CO.
30. Fisk^{*}, J., **G. C. Hurtt²**, J. Fisher⁺, J. Chambers (2008), Trends in the Ecological Impacts of Hurricanes, Colby-Sawyer College, New London, NH.
31. **Hurtt^{1,3}, G. C.** (2008), Understanding the Consequences of Land-Use Activities in the Earth System, Energy Modeling Forum, Washington, DC.
32. **Hurtt¹, G. C.** (2007), The Decarbonizer: Developing Potential Carbon Solutions for New England, Carbon Solutions New England, University of New Hampshire, Durham, NH.
33. **Hurtt¹, G. C.** (2005), Ecological Needs from Remote Sensing: the Importance of Forest Structure, NASA MISR Workshop, Bethesda, MD.
34. **Hurtt^{1,3}, G. C.**, S. Frolking, M. Fearon, B. Moore III, E. Shevliakova, S. Malyshev, S. Pacala, R. A. Houghton (2005), Three Centuries of Gridded, Global Land-use Transition Rates and Wood Harvest Statistics for Earth System Model applications, CICS Carbon Cycle Science Meeting, Princeton, NJ.
35. Wake, C., **G. C. Hurtt²**, T. Wawrzeoniak^{*}, A. Frappier^{*}, C. Girod^{*}, L. Siedel, V. Solomonson (2005), Prized Earth System Science Learning Resources Used at UNH, Universities Space Research Agency Earth System Science for the 21st Century Annual Meeting, Fairbanks, AK.
36. **Hurtt^{1,3}, G. C.**, S. Frolking, M. Fearon, B. Moore III, E. Shevliakova, S. Malyshev, S. Pacala, R. A. Houghton (2004), Three Centuries of Gridded, Global Land-use Transition Rates and Wood Harvest Statistics for Earth System Model Applications, LUCC: Integrated Assessment of the Land System: The Future of Land Use, Amsterdam, Netherlands.
37. **Hurtt¹, G. C.**, C. Wake, L. Seidel, D. Sahagian, V. Salomonson, A. Frappier^{*}, C. Girod^{*}, T. Wawrzeoniak^{*} (2004), Advancing Earth System Science for the 21st Century: An Interdisciplinary Education Initiative for University Students, Universities Space Research Agency Earth System Science for the 21st Century Annual Meeting, Monterey, CA.
38. **Hurtt¹, G. C.** (2004), Regional Ecosystem Modeling. NASA Regional Amazon Forest Structure and Carbon Cycling Workshop, New Orleans, LA.
39. **Hurtt¹, G. C.** (2004), Field, Remote Sensing, and Modeling Linkages. NASA Regional Amazon Forest Structure and Carbon Cycling Workshop, New Orleans, LA.
40. **Hurtt¹, G. C.** (2003), Direct and Indirect Human Contributions to Terrestrial Greenhouse Gas Fluxes: Consideration for Differing Spatial and Time Scales, National Academy of Sciences, Washington, DC.
41. **Hurtt¹, G. C.** (2003), Climate Change Science, Maine Department of Environmental Protection, Wiscasset, ME.
42. **Hurtt¹, G. C.** (2003), Climate Change: The Outlook for New England and the U.S. Peterborough Conservation Commission and The Harris Center for Conservation Education, Peterborough, NH.
43. **Hurtt¹, G. C.** (2002), Scaling-up Ecosystem Dynamics, Department of Mathematics, University of New Hampshire, Durham.
44. **Hurtt¹, G. C.** (2002), The New England Regional Assessment, North American Maple Producers Meeting, North Conway, NH.
45. **Hurtt¹, G. C.** (2002), The New England Regional Assessment, The Neponset River Watershed Association Annual Meeting, Sharon, MA.

46. **Hurtt^{1,3}, G. C.** (2002), IKONOS Imagery for Large-scale Biosphere Atmosphere Experiment in Amazonia, High Spatial Resolution Commercial Imagery Workshop, USGS National Center, Reston, VA.
47. **Hurtt¹, G. C.** (2002), Carbon and Climate Changes in the US: Where Could it All be Headed? Edward Bronfman Family Foundation Lecture, University of Vermont, Burlington, VT.
48. **Hurtt¹, G. C.** (2001), The New England Regional Assessment Overview, House Science, Technology, and Environment Committee, Concord, NH.
49. **Hurtt¹, G. C.** (2001), The New England Regional Assessment Overview, Congressional Briefing, United States Capitol, Washington, DC.
50. **Hurtt¹, G. C.** (2001), Terrestrial Ecosystems and Global Change: New Approaches for Synthesis and Prediction, Department of Natural Resources, University of New Hampshire, Durham, NH.
51. **Hurtt¹, G. C.** (2001), Terrestrial Models and Global Change: New Approaches for synthesis and prediction, Rutgers University, New Brunswick, NJ.
52. **Hurtt¹, G. C.** (2001), The New England Regional Assessment, Yale University, New Haven, CT.
53. **Hurtt¹, G. C.** (2000), Flux Data and Large Scale Ecosystem Modeling, Ameriflux Annual Meeting, Atlanta, GA.

CONTRIBUTED TALKS

1. Dolan, K. *, **G. C. Hurtt^{2,3}**, R. Dubayah, C. Huang, J.P. Fisk, J. G. Masek. (2012). Utilizing the vegetation change tracker (VCT), forest inventories, lidar, and the Ecosystem Demography Model (ED) to investigate spatial and temporal disturbance and recovery dynamics on regional forest structure and carbon fluxes. Presented at the 2012 Annual Meeting of the American Association of Geographers, New York, NY 25 Feb.
2. Ying, Q. *, **G. C. Hurtt^{2,3}**, L. P. Chini, J. P. Fisk (2012). A perspective on afforestation strategy in China toward IPCC-AR5. Presented at the 2012 Annual Meeting of the American Association of Geographers, New York, NY 25 Feb.
3. Armstrong, A. H. ⁺, **G. C. Hurtt^{2,3}**, R. Dubayah, J. P. Fisk *, N. Pinto, S. Franks, J. Suarez, O. Rourke *, S. Flanagan * (2011) High Resolution Ecosystem Modeling as Part of a Robust Carbon Monitoring System. Abstract B41G-03 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.
4. Le Page, Y. ⁺, **G. C. Hurtt^{2,3}**, A. Thomson, B. P. Bond-Lamberty, M. Wise, K. V. Calvin, J. P. Fisk *, J. Edmonds, A. Janetos (2011) Modeling the carbon cycle under altered ecosystem disturbance rates and the impacts on climate change mitigation strategies over the 21st century within an integrated assessment model, Abstract B22C-08 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.
5. Flanagan, S. *, **G. C. Hurtt^{2,3}**, Justin P. Fisk *, O. Rourke *, L. P. Chini, A. H. Armstrong⁺ (2011) Sensitivity of Vegetation Structure and Dynamics to Climate Data. Abstract B23A-0397 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec.
6. Negron Juarez, R. I., J. Q. Chambers, **G. C. Hurtt⁴**, J. P. Fisk * (2011) The relationship between hurricane wind fields and the associated disturbance in US forest ecosystems. Abstract B23C-0426 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec. □

7. Fisk, J. P*, **G. C. Hurtt**^{2,3}, J. Q. Chambers, H. Zeng, K. Dolan*, S. Flanagan*, O. Rourke*, R. I. Negron Juarez (2011) Projecting future impacts of hurricanes on the carbon balance of eastern U.S. forests. Abstract B23C-0429 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec. □
8. Dolan, K.* , **G. C. Hurtt**^{2,3}, C. C. Huang, R. Dubayah, J. G. Masek, L. Duncanson*, F. Zhao*, J. P. Fisk* (2011) Adding disturbance information from landsat and lidar to an advanced ecosystem model to investigate spatial and temporal disturbance and recovery dynamics on regional forest structure and carbon fluxes. □ Abstract B23C-0450 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec. □
9. Chini, L. P., **G. C. Hurtt**^{2,3}, E. Shevliakova, K. Klein Goldewijk (2011) Uncertainty in historical pasture reconstructions and its impact in carbon-climate models. Abstract B34D-07 presented at the 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec. □
10. Chambers, J. Q., R. I. Negron Juarez, D. M. Marra, D. A. Roberts, **G. C. Hurtt**⁴, A. Lima, N. Higuchi (2010), Amazon Old-Growth Forest Wind Disturbance and the Regional Carbon Balance, Abstract B44A-08 presented a the 2010 Fall Meeting, AGU, San Francisco, CA, 13-17 Dec.
11. Huang, C., R. Dubayah, **G. C. Hurtt**⁴, S. N. Goward, J. G. Masek, Z. Zhu (2010), Monitoring Forest Carbon Dynamics for REDD: A Landsat-Lidar Fusion Approach, Abstract B33G-0456 (Poster) presented a the 2010 Fall Meeting, AGU, San Francisco, CA, 13-17 Dec.
12. Chini, L. P., **G. C. Hurtt**^{2,3}, S. E. Frolking, R. Betts, J. J. Feddema, G. Fischer, J. Fisk, K. Klein Goldewijk, K. A. Hibbard, R. A. Houghton, A. C. Janetos, C. D. Jones, G. Kindermann, T. Kinoshita, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. M. Thomson, P. E. Thornton, D. van Vuuren, T. Wang (2010), Uncertainty Associated with Harmonization of Global Land-Use Scenarios for the 5th IPCC Assessment, Abstract GC23F-0971 (Poster) presented a the 2010 Fall Meeting, AGU, San Francisco, CA, 13-17 Dec.
13. Dubayah, R., **G. C. Hurtt**², S. Goetz, A. Hansen (2010), Integrating Vegetation 3D Structure and Ecological Modeling for Continental Scale Assessments of Biodiversity, Biomass and Disturbance, NASA Terrestrial Ecology Science Team Meeting, La Jolla, CA.
14. Huang, C., R. Dubayah, **G. C. Hurtt**⁴, J. G. Masek, S. N. Goward (2010), Integration of long term Landsat observations with DESDynI measurements for monitoring terrestrial carbon fluxes within and beyond the DESDynI mission, NASA Terrestrial Ecology Science Team Meeting, La Jolla, CA.
15. Chini⁺, L. P., **G. C. Hurtt**², S. E. Frolking, R. Betts, J. J. Feddema, G. Fisher, K. Klein Goldewijk, K. A. Hibbard, A. C. Janetos, C. Jones, G. Kindermann, T. Kinoshita, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. M. Thomson, P. E. Thornton, D. van Vuuren, Y. Wang (2010), Harmonization of Global Land-Use Scenarios for the Period 1500-2100 for the 5th IPCC Assessment, NASA Terrestrial Ecology Science Team Meeting, La Jolla, CA.
16. Dolan*, K. A., **G. C. Hurtt**², J. Q. Chambers, R. O. Dubayah, J. G. Masek (2010), Using ICESat's Geoscience laser Altimeter System to Assess Large Scale Forest Disturbance Caused by Hurricane Katrina, NASA Terrestrial Ecology Science Team Meeting, La Jolla, CA.
17. Fisk*, J., **G. C. Hurtt**², J. Q. Chambers, H. Zeng (2010), Projecting the past and future impacts of hurricanes on the carbon balance of eastern U.S. forests (1851-2100), NASA Terrestrial Ecology Science Team Meeting, La Jolla, CA.

18. Malyshev, S., E. Shevliakova, R. J. Stouffer, L. T. Sentman, **G. C. Hurtt**⁴, S. W. Pacala (2009), Simulation of the human land use influence on the historic terrestrial CO₂ fluxes, AGU Fall Meeting, B21B-0335, San Francisco, CA.
19. **Hurtt**¹, **G. C.**, R. Dubayah, J. Fisk^{*}, P. R. Moorcroft, M. A. Lefsky (2009), A Model-Data Framework for Linking Satellite-Based Data on Vegetation Structure with a Height Structured Ecosystem Model Over North America, AGU Fall Meeting, B23F-05, San Francisco, CA.
20. Dubayah, R., S. L. Sheldon, D. B. Clark, M. A. Hofton, J. B. Blair, **G. C. Hurtt**⁴, R. Chazdon (2009), Estimation of Tropical Forest Height and Biomass Dynamics Using Lidar Remote Sensing at La Selva, Costa Rica, AGU Fall Meeting, B24A-03, San Francisco, CA.
21. Thornton, P. E., F. Hoffman, **G. C. Hurtt**⁴ (2009), Influence of dynamic land use and land cover change on simulated global terrestrial carbon and nitrogen cycles, climate-carbon cycle feedbacks, and interactions with rising CO₂ and anthropogenic nitrogen deposition, AGU Fall Meeting, B24B-06, San Francisco, CA.
22. Dolan^{*}, K. A., **G. C. Hurtt**^{2,3}, J. Q. Chambers, R. Dubayah, S. E. Frolking, J. Masek (2009), Assessing the use of Geoscience Laser Altimeter System data to quantify forest structure change resultant from large-scale forest disturbance events- Case Study Hurricane Katrina, AGU Fall Meeting, B31A-0331, San Francisco, CA.
23. Fisk^{*}, J., **G. C. Hurtt**², J. Q. Chambers, H. Zeng (2009), Projecting the past and future impacts of hurricanes on the carbon balance of eastern U.S. forests (1851-2100), AGU Fall Meeting, B51H-03, San Francisco, CA.
24. Williams, J. E., L. B. Hayden, C. P. Wake, R. K. Varner, K. Graham, B. N. Rock, S. Hale, **G. C. Hurtt**⁴, W. Porter, R. Blackmon, J. G. Bryce, B. D. Branch, J. E. Johnson (2009), Partnership Opportunities In Earth System Science Education Between Historically Black and Historically White Universities: Elizabeth City State University and the University of New Hampshire, AGU Fall Meeting, ED52A-04, San Francisco, CA.
25. Chini⁺, L. P., **G. C. Hurtt**², S. E. Frolking, R. Betts, J. J. Feddema, G. Fisher, K. Klein Goldewijk, K. A. Hibbard, A. C. Janetos, C. Jones, G. Kindermann, T. Kinoshita, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. M. Thomson, P. E. Thornton, D. van Vuuren, Y. Wang (2009), Harmonization of Global Land-Use Scenarios for the Period 1500-2100 for the 5th IPCC Assessment, AGU Fall Meeting, U11A-0002, San Francisco, CA.
26. Hibbard, K. A., G. Meehl, J. Edmonds, N. Nakićenović, J. Lamarque, S. Rose, D. van Vuuren, R. Moss, **G. C. Hurtt**⁴ (2009), The handshake between the integrated assessment and climate modeling communities: IPCC AR5 as a catalyst for improved networking, collaboration and communication, AGU Fall Meeting, U23E-07, San Francisco, CA.
27. **Hurtt**¹, **G. C.**, L. P. Chini⁺, S. Frolking, R. Betts, J. Feedema, G. Fischer, K. Klein Goldewijk, K. Hibbard, A. Janetos, C. Jones, G. Kindermann, T. Kinoshita, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. Thomson, P. Thorton, D. van Vuuren, Y. Wang (2009), Harmonization of Global Land-Use Scenarios for the Period 1500-2100 for IPCC-AR5, Plenary Presentation, 8th International Carbon Dioxide Conference, Jena, Germany.
28. **Hurtt**¹, **G. C.**, J. Fisk^{*}, R. Q. Thomas^{*}, R. Dubayah, P. Moorcroft, H. Shugart (2008), Linking Models and Data on Vegetation Structure, AGU Fall Meeting, San Francisco, CA.
29. Dolan^{*}, K., **G. C. Hurtt**^{2,3}, J. Chambers, J. Masek, R. Dubayah (2008), Evaluating Large Scale Forest Disturbance Resulting from Hurricane Katrina Using the Geoscience Laser Altimeter System (GLAS) LiDAR, AGU Fall Meeting, San Francisco, CA.
30. Morton^{*}, D., R. S. DeFries, **G. C. Hurtt**⁴, R. Dubayah (2008), Assessing the Impact of Recurrent

Fires on Forests in Southern Amazonia, AGU Fall Meeting, San Francisco, CA.

31. Fisk^{*}, J., E. Shevliakova, **G. C. Hurtt**^{3,4}, S. Frolking (2008), Changes in distribution of carbon sources and sinks due to spatial patterns of harvesting and human consumption, AGU Fall Meeting, B41B-0380, San Francisco, CA.
32. Chini⁺, L. P., **G. C. Hurtt**^{2,3}, S. Frolking, R. Betts, J. Feedema, G. Fischer, K. Klein Goldewijk, K. Hibbard, A. Janetos, C. Jones, G. Kindermann, T. Kinoshita, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. Thomson, P. Thornton, D. van Vuuren, Y. Wang (2008), Harmonization of global land-use scenarios for the period 1500-2100 for IPCC 5th Assessment, AGU Fall Meeting, B41B-0378, San Francisco, CA.
33. Plagge^{*}, C. E., S. Frolking, L. P. Chini⁺, **G. C. Hurtt**⁴ (2008), Slash and Burn Agriculture: A dynamic spatio-temporal model of shifting cultivation locations and areas, AGU Fall Meeting, B41B-0377, San Francisco, CA.
34. Zeng, H., J. Q. Chambers, R. I. Negron-Juarez, **G. C. Hurtt**⁴ (2008), The Temporal Dynamics of the Impacts of U.S. Tropical Cyclones on Forest Tree Mortality and Carbon Flux, AGU Fall Meeting, San Francisco, CA.
35. Dubayah, R., K. Bergen, F. Hall, **G. C. Hurtt**⁴, R. A. Houghton, J. Kelindorfer, M. Lefsky, P. Moorecroft, R. Nelson, S. Saatchi, H. Shugart, M. Simard, J. Ranson, J. B. Blair (2008), Global Vegetation Structure from NASA's DESDynI Mission: An Overview, AGU Fall Meeting, San Francisco, CA.
36. Wake, C., M. Frades^{*}, **G. C. Hurtt**⁴, M. Magnusson^{*}, R. Gittell, C. Skoglund, J. Morin (2008) Providing Decision-Relevant Information for a State Climate Change Action Plan, AGU Fall Meeting, San Francisco, CA.
37. Morton^{*}, D., **G. C. Hurtt**², R. DeFries (2008), Modeling Changes in Forest Structure from Repeated Exposure to Anthropogenic Fires, International Scientific Conference "Amazon in Perspective: Toward an Integrated Science", Manaus, Amazonas, Brazil.
38. **Hurtt**^{1,3}, **G. C.**, L. Chini⁺, S. Frolking, K. Goldewijk, E. Stehfest, D. van Vuuren, E. Shevliakova (2008), Global Land-Use Harmonization 1500-2300, NASA Science Meeting, Maryland.
39. Dolan^{*}, K., **G. C. Hurtt**^{2,3}, J. Chambers, R. Dubayah, J. Masek (2008), Exploring the Use of GLAS as a Tool to Detect Relative Changes in Forest Structure Caused by Hurricane Katrina, NASA Science Meeting, MD.
40. Fisk^{*}, J., **G. C. Hurtt**², E. Shevliakova, S. Malyshev (2008), Comparison of Dynamic Vegetation Model and Satellite Remote Sensing Derived Terrestrial Primary Productivity, NASA Science Meeting, MD.
41. **Hurtt**¹, **G. C.**, R. Q. Thomas^{*}, R. Dubayah (2007), Beyond Potential Vegetation II: Using Repeat Lidar Data on Changes in Vegetation Height to Test Model Predictions of Ecosystem Dynamics, AGU Meeting, San Francisco, CA.
42. Dubayah, R., **G. C. Hurtt**² (2007), Estimation of Carbon Stocks, Fluxes and Dynamics Using Lidar and Ecosystem Models, AGU Meeting, San Francisco, CA.
43. Williams, J., C. Wake, L. Hayden, W. Porter, R. H. Blackmon, **G. C. Hurtt**⁴, K. Graham (2007), Building a Model of Collaboration Between Historically Black and Historically White Universities, AGU Meeting, San Francisco, CA.
44. Ito, A., C. Oires De Campos, J. E. Penner, M. J. Prather, M. Jung, R. A. Houghton, T. Kato, A. K. Jain, X. Yang, **G. C. Hurtt**⁴, S. Frolking, M. G. Fearon, A. Wang (2007), Carbon Fluxes From Land-Use Change and Forestry: A Multi-Model Study, AGU Meeting, San Francisco, CA.

45. Dubayah, R., **G. C. Hurtt**² (2007), Estimation of Carbon Stocks, Fluxes and Dynamics Using Lidar and Ecosystem Models, NASA ICESAT-II Workshop, Washington, D.C.
46. Chambers, J., J. Fisher, G. Guimaraes, V. Carneiro, A. Robertson, **G. C. Hurtt**⁴, J. dos Santos, N. Higuchi (2007), Disturbance and Old-Growth Amazon Forest Carbon Balance, LBA-ECO 11th Science Team Meeting, Salvador, Bahia, Brazil.
47. Fisher⁺, J., **G. C. Hurtt**², R. Q. Thomas^{*}, N. Higuchi, J. Chambers (2007), Clustered Disturbances Lead to Bias in Forest Inventory Plots, LBA-ECO 11th Science Team Meeting, Salvador, Bahia, Brazil.
48. **Hurtt**^{1,3}, **G. C.**, F. Einaudi, B. Moore III, V. Salomonson, J. Campbell (2006), Research & Discover: A Pipeline of the Next Generation of Earth System Scientists, AGU Meeting, San Francisco, CA.
49. Thomas^{*}, R. Q., **G. C. Hurtt**², R. Dubayah, K. J. Ranson, S. V. Ollinger, J. D. Aber (2006), The Importance of Heterogeneity: Integrating Lidar Remote Sensing and Height Structured Ecosystem Models to Improve Estimation of Forest Structure and Dynamics, AGU Meeting, San Francisco, CA.
50. Chambers, J., J. Fisher⁺, **G. C. Hurtt**⁴, T. Baker, P. Camargo, R. Campanella, J. dos Santos, N. Higuchi, Y. Malhi, O. Phillips, L. Ploudre, M. Smith, S. Trumbore (2006), Charting the Impacts of Disturbance on Biomass Accumulation in Old-Growth Amazon Forests, AGU Meeting, San Francisco, CA.
51. Vorosmarty, C. J., R. Lammers, A. Shiklomanov, X. Xiao, M. Rawlins, W. M. Wollheim, **G. C. Hurtt**⁴, L. Smith, D. Wisser, B. Fekete (2006), Use of Scenarios to Decipher Key Determinants of Change in the Water Cycle, AGU Meeting, San Francisco, CA.
52. Vorosmarty, C. J., B. Braswell, B. Fekete, S. Glidden, H. Hartmann, A. Magill, A. Prusevich, W. Wollheim, D. Blaha, D. Justice, **G. C. Hurtt**⁴, J. Jacobs, S. Ollinger, W. McDowell, B. Rock, F. Rubin, A. Schloss (2006), The UNH Earth System Observatory: A Regional Application in Support of GEOSS Global Scale Objectives, AGU Meeting, San Francisco, CA.
53. Moore III, B., **G. C. Hurtt**², B. Braswell, S. Frolking, C. Li, J. Melillo, S. Ollinger, S. Pacala, S. Seitzinger, R. Stallard, C. Vorosmarty, X. Xiao (2006), Understanding the Changing Carbon, Nitrogen, and Water Cycles in the Earth System, NASA Joint Science Workshop, College Park, MD.
54. **Hurtt**^{1,3}, **G. C.**, S. Pacala, E. Shevliakova, S. Malyshev, S. Frolking, M. Fearon, B. Moore III (2005), The Consequences and Uncertainties of Land Use History on Patterns of Carbon Stocks and Fluxes: Three Centuries of Global Land-use Transitions, Wood Harvest Activity, and Resulting Secondary Lands, AGU Meeting, San Francisco, CA.
55. Schilz^{*}, M., **G. C. Hurtt**², R. Dubayah, P. Schwartz (2005), Factors Affecting the Patterns of Vegetation Biomass and Canopy Height with Elevation at Hubbard Brook Experimental Forest, AGU Meeting, San Francisco, CA.
56. O'Dell, K., R. Dubayah, M. Hofton, B. Blair, **G. C. Hurtt**⁴ (2005), Estimating Changes in Forest Height and Structure in Hubbard Brook Experimental Forest Using Lidar Remote Sensing, AGU Meeting, San Francisco, CA.
57. Dubayah, R., **G. C. Hurtt**², P. Moorcroft, M. Hofton, J. B. Blair, S. Sheldon (2005), Estimation and Validation of Regional Biomass Using Vegetation Structure Measurements from ICESAT and Forest Inventory Data, AGU Meeting, San Francisco, CA.

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59. **Hurtt**^{1,3}, **G. C.**, S. Frolking, M. Fearon, B. Moore III, E. Shevliakova, S. Malyshev, S. Pacala, R. A. Houghton (2005), Three Centuries of Gridded, Global Land-use Transition Rates and Wood Harvest Statistics for Earth System Model Applications, Platform Presentation, 7th International Carbon Dioxide Conference, Boulder, CO.
60. Pacala, S. W., **G. C. Hurtt**^{2,3}, E. Shevliakova, S. Malyshev (2005), Modeling the History of Terrestrial Carbon Sources and Sinks, 7th International Carbon Dioxide Conference, Boulder, CO.
61. Girod*, C., **G. C. Hurtt**^{2,3} (2005), The Tension Between Fire Risk and Carbon Storage in U.S. Ecosystems. Ecological Society of America Annual Meeting, Montreal, Canada.
62. **Hurtt**¹, **G. C.**, R. Dubayah, M. Fearon, J. Drake, P. Schwarz, S. Pacala, P. Moorcroft (2004), Beyond Potential Vegetation: Combining Lidar Remote Sensing and a Height- Structured Terrestrial Ecosystem Model for Improved Estimates of Carbon Stocks and Fluxes at a Set of Sites in North and Central America, AGU Meeting, San Francisco, CA.
63. Girod*, G., T. King, **G. C. Hurtt**⁴ (2004), Global Fire Patterns and Trends from ENSO Events Estimated Using an Enhanced Ecosystem Model (GTEC 1.0), AGU Meeting, San Francisco, CA.
64. Wawrzeoniak*, T., C. Wake, **G. C. Hurtt**⁴, L. Seidel (2004), Advancing Earth System Science Education for the 21st Century: An Interdisciplinary Education Initiative for University Students, AGU Meeting, San Francisco, CA.
65. **Hurtt**^{1,3}, **G. C.**, S. Frolking, M. Fearon, B. Moore III, E. Shevliakova, S. Malyshev, S. Pacala (2003), Estimating the Uncertainty of Land-Use History Reconstructions in the Global Carbon Balance, AGU Meeting, San Francisco, CA.
66. Shevliakova, E., S. Pacala, S. Malyshev, **G. C. Hurtt**^{3,4} (2003), Carbon Cycle and Vegetation Dynamics in the GFDL-Princeton University Coupled Atmosphere-Biosphere Model, AGU Meeting, San Francisco, CA.
67. Dubayah, R., **G. C. Hurtt**² (2003), Assessing Biogeochemical Cycling in Forested Ecosystems Through Integration of Remotely-Sensed Forest Structure with an Ecosystem Model, AGU Meeting, San Francisco, CA.
68. Cardoso*, M., W. Salas, **G. C. Hurtt**⁴, S. Hagen, M. Keller, M. Fearon (2003), Land-Cover Transitions as Predictors of Fire Activity in Amazonia, AGU Meeting, San Francisco, CA.
69. **Hurtt**¹, **G. C.**, R. Dubayah, J. Drake, M. Fearon (2003), Using Data on Vegetation Height Structure to Improve Model Estimates of Carbon Stocks and Fluxes, NASA Workshop on the Remote Sensing of Forest Structure, Baltimore, MD.
70. Wake, C., **G. C. Hurtt**², L. Seidel (2003), Advancing Earth System Science Education for the 21st Century: An Interdisciplinary Education Initiative for University Students, ESSE21 Meeting, Morgan State University, Baltimore, MD.
71. Cardoso*, M., **G. C. Hurtt**², B. Moore III, C. Nobre, E. Prins, A. Setzer (2003), Use of Satellite Fire Products in Large-Scale Models, 9th Brazilian Remote Sensing Symposium, Brazil.
72. Drake, J., **G. C. Hurtt**², R. Dubayah, P. Moorcroft, M. Fearon (2003), Lidar Detected Vertical Canopy Structure for Improved Model Estimates of Carbon Stocks and Fluxes, ESA Annual Meeting, Savannah, GA.

73. Dubayah, R., **G. C. Hurtt**², J. Drake, B. Blair, M. Fearon (2003), Beyond Potential Vegetation: Combining Lidar Remote Sensing and a Height- Structured Ecosystem Model for Improved Estimates of Carbon Stocks and Fluxes, Association of American Geographers Meeting, New Orleans, LA.
74. Cardoso^{*}, M., **G. C. Hurtt**², B. Moore III, C. Nobre, A. Setzer (2002), Fieldwork and Statistical Analyses for Enhanced Interpretation of Satellite Fire Data, AGU Meeting, San Francisco, CA.
75. Dubayah, R., **G. C. Hurtt**², J. Drake, M. Fearon (2002), Beyond Potential Vegetation: Improving Model Carbon Projections of the Land Surface Using Lidar Remote Sensing, AGU Meeting, Washington, DC.
76. Moorcroft, P., **G. C. Hurtt**^{2,3}, J. Caspersen, E. Shevliakova, S. Pacala (2002), Biosphere-atmosphere Fluxes of CO₂: Scaling From Ecosystem to Continent Using the ED model, AGU Meeting, Washington, DC.
77. **Hurtt**¹, **G. C.** (2002), The New England Regional Assessment, Forest Watch Teacher Training, Durham, NH.
78. **Hurtt**¹, **G. C.**, R. Dubayah, J. Drake, M. Fearon (2002), Using Data on Vegetation Height Structure to Improve Model Estimates of Carbon Stocks and Fluxes, AGU Fall Meeting, San Francisco, CA.
79. Schloss, A., B. Moore III, B. Braswell, **G. C. Hurtt**⁴, W. Armstrong, D. Blaha, T. Carmell, R. Freuder, M. Routhier, S. Spencer (2002), EOS-WEBSTER - Providing Satellite Imagery for Everyone, AGU Fall Meeting, San Francisco, CA.
80. **Hurtt**¹, **G. C.**, X. Xiao, M. Keller, M. Palace^{*}, M. Fearon, B. Braswell, S. Hagen, M. Cardoso^{*}, A. Schloss, B. Moore III, C. Nobre (2002), IKONOS Imagery for the Large Scale Biosphere-Atmosphere in Amazonia, GIS Day, University of New Hampshire, Durham, NH.
81. **Hurtt**¹, **G. C.**, X. Xiao, M. Keller, M. Palace^{*}, M. Fearon, R. Braswell, S. Hagen, M. Cardoso^{*}, A. Schloss, B. Moore III, C. Nobre (2002), IKONOS Imagery for the Large Scale Biosphere-Atmosphere in Amazonia, LBA 2nd Scientific Conference, Manaus, Brazil.
82. Cardoso^{*}, M., **G. C. Hurtt**², B. Moore III, C. Nobre, A. Setzer (2002), Fieldwork and Statistical Analyses or Enhanced Interpretation of Satellite Fire Data, LBA 2nd Scientific Conference, Manaus, Brazil.
83. Cardoso^{*}, M., **G. C. Hurtt**², B. Moore III, C. Nobre, E. Prins (2001), Potential Changes to Fire Dynamics in Amazonia, AGU Fall Meeting, San Francisco, CA.
84. **Hurtt**¹, **G. C.** (2001), The Synthesis Challenge, AGU Fall Meeting, San Francisco, CA.
85. **Hurtt**¹, **G. C.** (2001), The New England Regional Assessment Overview, New England Integrated Sciences and Assessment Meeting, Durham, NH.
86. **Hurtt**¹, **G. C.** (2001), Climate Change and The New England Regional Assessment, New England Science Center Consortium, University of New Hampshire, Durham, NH.
87. Shevliakova, E., **G. C. Hurtt**², P. Moorcroft, S. Pacala, P. Milly, S. Fan, G. Wang, C. Nobre (2001), Sensitivity of Biophysical Feedbacks in the Coupled Atmosphere-Biosphere Model to Land-Cover/Land Use Changes, IGBP Open Science Conference, Amsterdam, Netherlands.
88. **Hurtt**^{1,3}, **G. C.**, P. Moorcroft, S. Pacala, J. Caspersen, E. Shevliakova, B. Moore III (2001), Scaling Carbon Dynamics: Models for Synthesis and Prediction, AGU Meeting, Boston, MA.
89. **Hurtt**¹, **G. C.** (2001), Incorporating the Effects of Land Use and Land-Use History in the Ecosystem Demography Model of Amazonia, LBA Open Science Meeting, Atlanta, GA.

90. Moorcroft, P., **G. C. Hurtt**², S. Pacala (2001), Scaling Ecosystem Dynamics, LBA Open Science Meeting, Atlanta, GA.
91. **Hurtt**^{1,3}, **G. C.**, S. W. Pacala, P. R. Moorcroft, J. Caspersen, E. Shevliakova, R. Houghton, B. Moore III (2001), The Future of the U.S. Carbon Sink, AGU Meeting, San Francisco, CA.
92. Shevliakova, E., **G. C. Hurtt**², S. Pacala, P. Milly, P. Moorcroft (2001), Interannual Variability in Amazonian Net Ecosystem Production: Implications for Regional Carbon Cycle, AGU Meeting, San Francisco, CA.
93. Xiao, X., **G. C. Hurtt**², M. Keller, M. Palace, S. Hagen, B. Moore III, C. Nobre, S. Spencer (2001), Spatial Heterogeneity of the Eddy Flux Tower Sites in Amazon Basin: Observations From High Resolution Space-borne Remote Sensing Imagery (IKONOS Sensor), LBA Eddy-Flux Tower Workshop, CPTEC, Cachoiera de Paulista, Brazil.
95. Xiao, X., **G. C. Hurtt**², S. Hagen, S. Frolking, B. Braswell, B. Moore III, C. Nobre (2001), A Multi Sensor/Resolution Remote Sensing Database for Amazon Eddy-flux Tower Sites, LBA Eddy-Flux Tower Workshop, CPTEC, Cachoiera de Paulista, Brazil.
96. Xiao, X., **G. C. Hurtt**², S. Hagen, S. Frolking, B. Braswell, B. Moore III, C. Nobre (2001), A Multi Sensor/Resolution Remote Sensing Database for Amazon Eddy-flux Tower Sites, GIS Day, University of New Hampshire, Durham, NH.
97. Cardoso *, M., **G. C. Hurtt**², B. Moore III, C. Nobre, E. Prins (2001), Modeling Large Scale Fire Dynamics in Amazonia, GIS Day, University of New Hampshire, Durham, NH.
98. **Hurtt**¹, **G. C.**, S. W. Pacala, P. R. Moorcroft, J. Caspersen, E. Shevliakova, R. Houghton, B. Moore III (2001), The Future of the U.S. Carbon Sink, IGBP Open Science Conference, Amsterdam, Netherlands.
99. **Hurtt**¹, **G. C.**, P. R. Moorcroft, S. Pacala, E. Shevliakova, M. Cardoso, B. Moore III, C. Nobre (2001), Synthesis and Projection of Ecosystem Changes in Amazonia, IGBP Open Science Conference, Amsterdam, Netherlands.
100. Cardoso *, M., **G. C. Hurtt**², B. Moore III, C. Nobre, E. Prins (2001), Modeling Large-Scale Fire Dynamics in Amazonia, IGBP Open Science Conference, Amsterdam, Netherlands.
101. Schloss, A., J. Aber, B. Braswell, S. Frolking, **G. C. Hurtt**⁴, C. Vorosmarty, B. Moore III (2001), A WEB-based System for Terrestrial Environmental Research, IGBP Open Science Conference, Amsterdam, Netherlands.
102. Xiao, X., **G. C. Hurtt**², S. Hagen, S. Frolking, B. Braswell, B. Moore III, C. Nobre (2001), A Multi Sensor/Resolution Remote Sensing Database for Amazon Eddy-Flux Tower Sites, LBA Open Science Meeting, Atlanta, GA.
103. **Hurtt**^{1,3}, **G. C.**, S. Pacala, P. Moorcroft, J. Caspersen, E. Shevliakova, B. Moore III (2000), Net Carbon Fluxes in the Conterminous U.S.: Patterns, Causes, and Implications for the Future, AGU Meeting, San Francisco, CA.
104. Shevliakova, E., P. Moorcroft, S. Fan, **G. C. Hurtt**^{3,4}, S. W. Pacala, P. Milly, G. Wang (2000), Influence of Land Use and Land Cover on Biophysical Feedbacks to the Atmosphere, AGU Meeting, San Francisco, CA.
105. Pacala, S., **G. C. Hurtt**^{2,3}, R. A. Houghton, R. A. Birdsey, E. T. Sundquist, D. Baker, P. Peylin, P. Moorcroft, J. Caspersen, M. E. Harmon, S. M. Fan, J. L. Sarmiento, C. Goodale, C. B. Field (2000), Carbon Storage in the US Caused by Land use Change: Convergence of Estimates from Inventories of Ecosystems and Inversions of Atmospheric Data, AGU Meeting, San Francisco, CA.

106. **Hurtt¹, G. C.** (2000), Issues in LBA Ecology related to LBA Hydrolog, LBA Hydronet Workshop, CPTEC, Cachoiera de Paulista, Brazil.
107. **Hurtt¹, G. C.** (2000), Linking Ecological and Hydrological Models of the Amazon, LBA Hydronet Workshop, CPTEC, Cachoiera de Paulista, Brazil.
108. Dubayah, R., **G. C. Hurtt²**, J. Drake (2000), Initialization and Validation of Global Terrestrial Ecosystem Models Using Lidar Remote Sensing, Ecological Society of America Annual Meeting, Snowbird, UT.
109. **Hurtt¹, G. C.**, L. Rosentrater, S. Frolking (2000), Linking Remote-Sensing Estimates of Land Cover and Census Statistics on Land Use for the Conterminous United States, AGU Meeting, Baltimore, MD.
110. Moorcroft, P., **G. C. Hurtt^{2,3}**, S. Pacala (2000), The Ecosystem Demography Model, LBA-First Scientific Conference, Belem, Brazil.
111. Shevliakova, E., P. Moorcroft, **G. C. Hurtt²**, J. Casperson, S. Fan, E. Gloor, S. Pacala (2000), Influence of Land Use and Land Cover Characteristics on Biophysical Feedbacks to Atmosphere, LBA- First Scientific Conference, Belem, Brazil.
112. Casperson, J. P., S. W. Pacala, J. C. Jenkins, **G. C. Hurtt⁴**, P. R. Moorcroft, R. A. Birdsey (2000), Carbon Accumulation in U.S. Forests is Caused Overwhelmingly by Changes in Land Use Rather Than Carbon Dioxide Fertilization, Nitrogen Deposition or Climate Change, AGU Fall Meeting, San Francisco, CA.
113. Wang, G., S. Fan, I. Held, E. Shevliakova, S. W. Pacala, P. R. Moorcroft, P. D. Milly, **G. C. Hurtt⁴** (2000), Modeling the Biosphere-atmosphere Interactions Using the Ecosystem Demography model (ED) Coupled to a GCM, AGU Fall Meeting, San Francisco, CA.
114. Palace*, M., M. Keller, **G. C. Hurtt⁴** (2000), Biomass Estimation in the Tapajos National Forest, Brazil: Estimation of Sampling and Biomass Uncertainties, AGU Fall Meeting, San Francisco, CA.
115. Cardoso*, M., **G. C. Hurtt²**, B. Moore III, C. Nobre, E. Prins (2000), Fire Dynamics in Amazonia, AGU Fall Meeting, San Francisco, CA.
116. **Hurtt^{1,3}, G. C.**, X. Xiao, M. Palace*, M. Cardoso*, S. Frolking, B. Moore III, C. Nobre, M. Keller (2000), High-resolution Remote Sensing Imagery (IKONOS) for LBA Eddy-flux Tower Sites, LBA- First Scientific Conference, Belem, Brazil.
117. Keller, M., M. Palace*, **G. C. Hurtt⁴** (2000), A Biomass Estimate for a 400 ha Forest Plot in Amazonia. LBA- First Scientific Conference, Belem, Brazil.
118. Cardoso*, M., **G. C. Hurtt²**, B. Moore III, C. Nobre, E. Prins (2000), Fire Dynamics in Amazonia, LBA- First Scientific Conference, Belem, Brazil.

GRANTS

GRANTS AWARDED

“High Resolution Carbon Monitoring and Modeling: A CMS Phase 2 Study”, R. Dubayah (P.I.), A. Finley, C. Huang, **G. C. Hurtt**, K. Johnson, N. Pinto, A. Swatantran, R. Birdsey, P. DeCola, J. O’Neil-Dunne, R. Nelson, S. Saatchi, NASA, 2012-2014. (\$1.4 million)

“Development of a Carbon Monitoring System”, R. Dubayah (P.I.), A. Finley, **G. C. Hurtt**, NASA, 2010-2011. (\$595,000)

“Modeling the Impacts of Major Forest Disturbances on the Earth's Coupled Carbon-Climate System, and the Capacity of Forests to Meet Future Demands for Wood, Fuel, and Fiber,” **G. C. Hurtt** (P.I.), J. Chambers, J. Collatz, R. Dubayah, J. Edmonds, S. Frolking, A. Janetos, D. Morton, NASA, 2010-2013. (\$1.75 million)

“Using NASA Remote Sensing and Models to Advance Integrated Assessments of Coupled Human-Forest Dynamics for North America”, **G. C. Hurtt** (P.I.), A. Janetos, J. Edmonds, B. Bond-Lamberty, L. Chini, A. Thomson, S. Frolking, NASA, 2010-2013. (\$1.04 million)

“JGCRI Collaboration”, **G. C. Hurtt** (P.I.), Battelle/JGCRI. 2010-. (\$126,380).

“ARRA – SEP Innovative Initiatives – Green Launching Pad”, R. Gittell (P.I.), **G. C. Hurtt**, K. Gardner, V. Venkatachiam, State of New Hampshire OEP, 2010-2011. (\$750,000)

“Integrated Global Land Use Modeling Project”, **G. C. Hurtt** (P.I.), S. Frolking, Battelle/ORNL, 2010-12. (\$524,847)

“Joint Global Change Research Institute,” **G. C. Hurtt** (P.I.), S. Frolking, L. Chini, Battelle/JGCRI, 2009-. (\$225,000)

“Integration of long term Landsat observations with DESDynI measurements for monitoring terrestrial carbon flux within and beyond the DESDynI mission,” C. Huang (P.I.), R. Dubayah, S. Goward, **G. C. Hurtt**, J. Masek, NASA, 2009-2012. (\$977,867)

“Assimilating NAFD and GLAS Data in the Ecosystem Demography (ED) Model to Investigate the Role of Regional Forest Disturbance and Recovery Dynamics on the Carbon Cycle,” **G. C. Hurtt** (P.I.), K. Dolan, NASA, 2009-. (\$30,000)

“Sustainability Lecture Series,” **G. C. Hurtt** (P.I.), T. Kelly, K. Gardner, UNH Class of 1954 Academic Enrichment Fund, 2009. (\$5,000)

“Research & Discover III: An Educational Initiative of the UNH-GSFC Joint Center for Earth Sciences,” **G. C. Hurtt** (P.I.), B. Moore, J. Campbell, NASA-GSFC/UNH-EOS, 2008-2011. (\$856,120)

“Integrating Vegetation 3D Structure and Ecological Modeling for Continental Scale Assessments of Biodiversity, Biomass, and Disturbance,” R. Dubayah (P.I.), S. Goetz, A. Hansen, **G. C. Hurtt**, NASA, 2008-2011. (\$1,100,000)

“A Proposal from the Natural Resources and Earth System Science Ph.D. Program to Enhance Graduate Education”, **G. C. Hurtt** (P.I.), F. Short, NRESS Ph.D. Program, UNH Competition to Enhance Graduate Education, 2007-2010. (\$653,709)

“Research & Discover: Enhancing Graduate Education at UNH through Strategic Partnerships,” **G. C. Hurtt** (P.I.), UNH Competition to Enhance Graduate Education, 2007-2010. (\$275,743)

“Advancing our understanding of the Earth System through coupled carbon-climate modeling and observations,” B. Moore III (P.I.), B. Braswell, **G. C. Hurtt**, C. Li, S. Ollinger, S. Pacala, X. Xiao, NASA, 2007-2010. (\$1.21 million)

“Carbon Neutral New England 2020,” C. Wake (P.I.), J. Aber, **G. C. Hurtt**, T. Kelly, B. Moore III, New Hampshire Charitable Foundation, 2007-2009. (\$150,000)

“Hurricane Impacts on the structure and function of Southeastern Forests,” J. Chambers (P.I.), **G. C. Hurtt**, S. Saatchi, NICCR, 2006-2009. (\$538,306)

“Disturbance Effects on Carbon Dynamics in Old-Growth Amazon Forest: A Synthesis from Individual Trees to Landscapes,” J. Chambers (P.I.), **G. C. Hurtt**, NASA, 2006-2008. (\$336,264)

“The role of land cover and land use change in the hydrology of the Eurasian pan-Arctic,” C. Vorosmarty (P.I.), E. Douglas, **G. C. Hurtt**, R. Lammers, S. Shiklamonov, X. Xiao, NASA, 2006-2008. (\$599,431)

“Inspiring the Next Generation of Earth Explorers Through Remote Sensing Studies: Remote Sensing Explorers,” L. Hayden (P.I.), **G. C. Hurtt**, L. Mitchell, M. LeCompte, B. Rock, C. Wake, NASA, 2005-2008. (\$896,360)

“Joint Center for Earth Sciences Educational Initiative: Research & Discover II,” **G. C. Hurtt** (P.I.), B. Moore III, J. Campbell, NASA-GSFC/UNH-EOS, 2005-2008. (\$809,529)

“The impact of early involvement in outreach scholarship on students' achievement and motivation in STEM disciplines,” **G. C. Hurtt** (P.I.), UNH Vice President for Research and Public Service Discretionary Fund, 2005-2007. (\$11,000)

“Modeling Land-Use Dynamics in the Earth System,” **G. C. Hurtt** (P.I.), NOAA-Princeton CICS, 2004-2008. (\$378,406)

“Understanding the Changing Carbon, Nitrogen, and Water Cycles in the Earth System,” B. Moore III (P.I.), B. Braswell, S. Frohking, **G. C. Hurtt**, C. Li, M. Maybeck, J. Melillo, S. Ollinger, S. Pacala, J. Sarmiento, R. Stallard, S. Seitzinger, C. Vorosmarty, X. Xiao, NASA, 2004-2007. (\$2.35 million)

“Characterizing Forest Structure for Assessment of Carbon Cycling and Biodiversity: An Integrated Approach Using Lidar Remote Sensing and Ecosystem Modeling,” R. Dubayah (P.I.), B. Blaire, **G. C. Hurtt**, et al., NASA, 2004-2007. (\$1,799,000)

“Earth System Science Education for the 21st century,” C. Wake (P.I.), **G. C. Hurtt**, L. Seidel, V. Salomonson, NASA-USRA, 2003-2005. (\$67,000)

“Joint Center for Earth Sciences Educational Initiative: Research & Discover,” B. Moore III (P.I.), J. Campbell, **G. C. Hurtt**, NASA-GSFC/UNH-EOS, 2002-2005. (\$454,000)

“Beyond Potential Vegetation: Improving Model Projections Using Lidar Remote Sensing,” R. Dubayah (P.I.), J. Drake, **G. C. Hurtt**, NASA, 2001-2004. (\$499,125)

“Predicting Changes in Regional and Global Biogeochemical Cycles,” B. Moore III (P.I.), B. Braswell, C. Li, S. Frohking, **G. C. Hurtt**, J. Melillo, S. Pacala, J. Sarmiento, X. Xiao, NASA, 1999-2003. (\$1.7 million)

“Development of a Global Carbon Model,” **G. C. Hurtt** (P.I.), NOAA-Princeton, 1999-2003. (\$180,000)

“Modeling the Biogeochemical System of the Terrestrial Amazon: Issues for Sustainability,” B. Moore III (P.I.), B. Braswell, **G. C. Hurtt**, J. Melillo, S. Pacala, X. Xiao, NASA, 1997-2003. (\$1.27 million)

FELLOWSHIPS, HONORS, AND DISTINCTIONS

- Honoree, 14th Annual Research Leaders Luncheon, University of Maryland 2012
- Honoree, 5th Annual University-Wide Celebration of Scholarship and Research, University of Maryland 2012
- Honoree, 13th Annual Research Leaders Luncheon, University of Maryland 2011
- Zayed International Prize for the Environment 2006
- University Outreach Scholar 2004
- NASA “Top Story” 2004
- Runner-up “Breakthrough of the Year”, *Science* 2001
- NASA Global Change Research Fellow 1994-1997

3. TEACHING and ADVISING

COURSES TAUGHT

- Carbon: Basis of Life, Environmental Challenge, and Economic Driver (HONR239E) 2013
- Forest Modeling (GEOG748F) 2012
- Land Cover and Land-Use Change (GEOG615) 2011
- Modeling Coupled Human-Natural Systems (GEOG748B) 2011
- Sustainability Science (CIE897), with K. Gardner, T. Kelly, C. Wake 2008-2009
- Independent Studies (INCO590, NR795, NR995) 2007-2009
- Building Wedges (ENE/CIE797), with C. Wake, J. Jabeck 2007,8,10
- How to Change the World (NR444), with D. Burdick, J. Schloss, M. Middleton 2007
- Environmental Modeling (NR797/897) with S. Frolking 2006,8
- Earth System Science (NR767/867-ESCI795/895-EOS867), with C. Wake 2004,5,6,8,10
- Global Biological Change (NR415) 2003-10
- Hot Topics: The State of the World (NR993) 2002
- Climate Change 2001 (NR795/895-EOS795/895) 2002
- LBA-GAIM Modeling Workshop, with B. Moore, C. Nobre, D. Sahagian, National Center for Weather and Climate Forecasting (CPTEC), Brazil 2001

GUEST LECTURES IN COURSES

- Geography 602 2011
- Geography 600 2011
- Professional Perspectives in Natural Resources (NR400) 2003-2009
- Freshman Seminar (LSA400) 2004,5,6
- Global Environmental Change (ESCI405) 2002,3,4,6
- Approaches to Research (NR903), B. Rock, Guest Lecture 1999,2004
- Advanced Remote Sensing Methods (EOS895), M. Fahnestock, M. Martin 2004
- Introduction to Climate as an Earth System (ESCI596), J. Pringle 2002
- Ecosystem Ecology, J. Aber 2000
- Community Ecology, S. Pacala, Princeton University 1994-1997

GRADUATE ADVISING - PH.D. (*MAJOR ADVISOR)

- Hao Tang, Ph.D. Student, Geographical Sciences, UMD 2012-
- Ritvik Sahajpal*, Ph.D. Student, Geographical Sciences, UMD 2011-
- Qing Ying*, Ph.D. Student, Geographical Sciences, UMD 2011-
- Sam Jantz*, Ph.D. Student, Geographical Sciences, UMD 2011-12
- Katelyn Dolan*, Ph.D. Student, Geographical Sciences, UMD 2011-
- Xiufang Zhu, Ph.D. Student, Geographical Sciences, UMD 2010-
- Xin Tao, Ph.D. Student, Geographical Sciences, UMD 2010-
- Laura Duncanson, Ph.D. Student, Geographical Sciences, UMD 2010-
- Steve Flanagan*, Ph.D. Student, Geographical Sciences, UMD 2010-
- Emily Klein, Ph.D. Student, NRESS Ph.D. Program, UNH 2009-
- Jay Clausen, Ph.D. Student, NRESS Ph.D. Program, UNH 2009-
- Katelyn Dolan*, Ph.D. Student, NRESS Ph.D. Program, UNH 2009-11
NASA Earth System Science Fellow

- Justin Fisk*, Ph. D. Student, NRESS Ph.D. Program, UNH
Research Scientist I, Earth System Modeling 2007-
- Jamie Cournane, Ph.D. Candidate NRESS, UNH 2006-2010
“A spatial model for the synthesis of different fisheries datasets”
- Douglas C. Morton, Ph.D., University of Maryland 2006-2008
NASA Earth System Science Fellow
“Savannization of a tropical forest frontier”
- Fernando Espirito-Santo, Ph.D. Student NRESS, University of New Hampshire 2005-
“Detection of mortality in tropical forests using remote sensing”
- Tim Moore, Ph.D. NRESS, UNH 2004-2008
“Determining phytoplankton community structure from satellite-based sensors”
- Maya Bhatt, Ph.D. NRESS, UNH 2000-2005
“Evolution of Chemical Composition Along River Drainage Networks”
- Cassiano D’Almeida, Ph.D. Candidate NRESS, UNH 1999-
“Water and Energy Balance of Amazonia”
- Michael Palace*, Ph.D. NRESS, UNH 1999-2007
“Carbon and Course Woody Debris Dynamics in Amazonia”
- Manoel Cardoso*, Ph.D. NRESS, UNH 1999-2004
“Fire Dynamics in Amazonia”
- Balazs Fekete, Ph.D. Earth Sciences, UNH 1998-2001
“Spatial Distribution of Global Runoff and its Storage in River Channels”

GRADUATE ADVISING – M.S. (* MAJOR ADVISOR)

- Katelyn Dolan*, M.S. Student Natural Resources, UNH 2007-2009
NASA-UNH Research & Discover Graduate Fellow
“Evaluating large scale forest disturbance resulting from Hurricane Katrina”
- R. Quinn Thomas*, M.S. Natural Resources, UNH 2005-2007
NASA-UNH Research & Discover Graduate Fellow
“Addressing the influence of abiotic and biotic heterogeneity on patterns of carbon stocks and fluxes at Hubbard Brook Experimental Forest”
- Mariya Schilz*, M.S. Natural Resources, UNH 2004-2006
NASA-UNH Research & Discover Graduate Fellow
“Effects of Fine-scale Heterogeneity on Forest Carbon Dynamics”
- Carolyn Girod*, M.S. Natural Resources, UNH 2003-2005
U.S. Department of Homeland Security Graduate Fellow
N.H. Space Grant Fellow
“The tension between carbon storage and fire risk in ecosystems”

UNDERGRADUATE INDEPENDENT STUDIES (* MAJOR ADVISOR/RESEARCH ADVISOR)

- Brendan Duttry*, B.S. Environmental Science, UNH 2009-10
“Atmospheric Carbon Uptake: An Assessment of Woodlands Managed by the University of New Hampshire”
- Melanie Titus*, B.S. Environmental Science, UNH 2008
“Interactions between Hurricanes and Forest Fires”
- Nate Malo*, B.A. Spanish, Minor Environmental Conservation, UNH 2008
“Modeling Carbon Reduction Strategies”
- Michael Hutson*, Stanford University, NASA-UNH Research & Discover Intern 2008
“Giants in the Hills: Fieldwork and Forest Modeling at the Sierra Study Area”

- in Preparation for the DESDYNI Satellite Mission”
- Andrew Morehouse*, B. S. Environmental Science, UNH 2007-2008
“Effects of Vegetation Growth on Forest Fire Frequency”
- Nate Malo*, B.A. Spanish, Minor Environmental Conservation, UNH 2007
“Calculating the Carbon Wedge Resulting from the Implementation of Green Building Technologies into the Commercial Building Sector of New England”
- Andrew Morehouse*, B. S. Environmental Science, UNH 2006
“Environmental Modeling”
- Ana Garcia, Princeton University 2003-2004
“Coarse Woody Debris in Forests Around the World, with Special Emphasis on the Amazon, and Its Dependence on sAbove-Ground Live Biomass and Decomposition Rate”
- Heather Bain*, College of the Holy Cross, NASA-UNH Research & Discover Intern 2002-2003
“Land use history reconstruction for Brazil”

UNDERGRADUATE ADVISING

- Advised ~12 undergraduates per year, Geography Department, UMD 2010-
- Advised ~12 undergraduates per year, Environmental Science Program, UNH 2006-10

4. SERVICE

UNIVERSITY SERVICE

- Chair, College APT Committee 2012-13
- Member, University Council of the Environment 2012-
- Chair, Undergraduate Committee, Department of Geographic Sciences 2012-13
- Faculty Marshal, College of Behavioral and Social Sciences 2011
- Member, Undergraduate Committee, Department of Geography 2011-13
- Member, College APT Committee 2011-13
- Faculty Advisory Committee, College of Behavioral and Social Sciences 2010-12
- Graduate Committee, Department of Geography 2010-11
- Chair, Faculty Advisory Committee, Department of Geography 2010-12
- Chair, Research Committee, Department of Geography 2010-11
- Research Director, Department of Geography, UMD 2010-
- Promotion and Tenure Committee, EOS 2007, 2009
- Senior Vice Provost for Research Search Committee 2009
- University DOD Tiger Team 2009
- Co-author, Earth Grant University Proposal, with J. Wraith, T. Eighmy 2009
- University Strategic Planning Work Group 2009
- Coordinator, Sustainability Lecture Series 2009
- University Strategic Planning Roundtables 2008
- CEPS/COLSA/EOS “Gang of Nine” Working Group 2008-2010
- Executive Committee, Institute for the Study of Earth, Oceans, and Space 2008-2010
- Coordinator, Environmental Science Seminar Series 2005,6,8
- Promotion & Tenure Workshop Panel 2008
- Search Committee for Manager of Research Administration 2008
- President’s Blue Ribbon Panel on Research 2008-2009

- Co-Chair, UNH Advisory Board for Engagement and Outreach Scholarship 2008-2010
- Co-founder and Carbon Lead, Carbon Solutions New England (CSNE) 2007-2010
- Co-Lead, UNH Carnegie Community Engagement Classification Application 2007-2008
- Outreach Scholarship Proposal Review Panel 2007
- Outreach Scholars Program Panel 2006
- RCM Review State Appropriations Subcommittee 2005
- Chair, Interdisciplinary Science & Engineering Symposium 2004-2006
- Vice President for Research and Public Service Proposal Review Panel 2005
- Interdisciplinary Team to Enhance Diversity, Office of VP for Research 2004-2010
- Coordinator, NASA Earth System Science Seminar Series 2004
- Environmental Science Program Faculty 2004-2010
- Environmental Conservation Program Faculty 2002-2010
- Academic Affairs Committee, College of Life Sciences and Agriculture 2003-2006
- Chair, Undergraduate Research Conference- EOS Symposium 2003-2004
- Undergraduate Research Conference Planning Committee 2003-2006
- Climate Education Initiative Working Group, Office of Sustainability 2003-2010
- Executive Committee, Natural Resources and Earth System Science PhD Program 2002-2006
- Natural Resources and Earth System Science PhD Program Faculty 2002-
- Committee on Environmental Science 2002-2004
- Biodiversity Education Initiative, Office of Sustainability Programs 2002-2010
- Program Faculty, The Natural Resources PhD program 2000-2002

EXTRA UNIVERSITY SERVICE

- Science Team Leader, NASA Carbon Modeling System 2012-
- Member, AAAS EPSCOR Review Committee 2012-
- Member, Global Carbon Project, Land Use Working Group 2012-
- Invited Participant, Workshop on Identifying Essential Biodiversity Variables, Group of Earth Observations, Frascati, Italy 2012
- Session Organizer, “Measuring and Modeling Terrestrial Ecosystem Structure and Dynamics, Annual Meeting of the Association of American Geographers 2012
- Associate Editor, *Global Biogeochemical Cycles* 2011-
- Guest Editor, *Earth System Dynamics* “Impacts of Land-Uses and Land-Cover Changes (LULCC) on the functioning of the Earth System” 2011-12
- Chair, NASA Earth Science Senior Review 2011
- Member, AAAS EPSCOR Review Committee 2011
- Member, NASA Joint Science Workshop Planning Committee 2011
- Co-Chair, Advancing Land-use Modeling and Analysis for Carbon Studies Workshop, Princeton 2011
- Invited Reviewer, IPCC-AR5 WG2, Regional Context 2011-
- Contributing Author, IPCC-AR5 WG1, Carbon and Other Biogeochemical Cycles 2010-
- Member, NASA Review Panel 2010
- Member, NSF Review Panel 2010
- Invited Participant, Scenarios Workshop, National Climate Assessment 2010
- Member, Organizing Committee/Writing Team, Modeling Workshop, National Climate Assessment 2010
- Chair, NASA Terrestrial Ecology Modeling Working Group 2010-
- Invited Lecturer, Summer Colloquium on Earth System Modeling, Institute for Global Change Studies, Tsinghua University, Beijing, China 2010

- Member, Writing Team, Climate Roadmap Workshop, Office of Science, U.S. Department of Energy 2010
- Invited Participant, Long-term Vision Workshop, Office of Biological and Environmental Research, Department of Energy 2010
- Invited Participant, Describing Socio-Economic and Environmental Futures for Climate Change Research and Assessment, National Academy of Sciences, National Research Council 2010
- Co-Chair, Improving the Representation of Biodiversity in Vegetation Modeling: A Joint TRY/BBS Workshop, International Geosphere Biosphere Program (IGBP), Cape Town 2009
- Member, Synthesis on the Impacts on Disturbance on the North American Carbon Budget, North American Carbon Program Working Group 2009-
- Member, NASA Senior Review Panel 2009
- Participant, DIVERSITAS/UNEP Expert Workshop “Reviewing the science and understanding of future change in biodiversity and ecosystem services”, Cambridge, UK 2009
- Chair, Oak Ridge National Lab Distributed Active Archive Center UWG 2009-
- Member, Oak Ridge National Lab Distributed Active Archive Center User Working Group 2008-
- Lead, Global Land-Use Harmonization, EMF/IAM Working Group 2008-11
- Member, NASA Earth and Space Science Fellowship (NESSF) Program Panel 2008
- Executive Committee, NASA Vegetation Structure Working Group for DESDynI 2007-
- Co-Chair, IGBP/GLP/DIVERSITAS Advanced Prediction of Biome Boundary Shifts Workshop Steering Committee, Paris/Japan 2007
- Panelist, Future of Space Science: Sun-Earth Connection, National Academy of Sciences, Durham 2007
- Co-Chair, NASA Modeling Goals & Objectives/Future Directions, Joint Workshop on NASA Biodiversity, Terrestrial Ecology, and Related Applied Sciences 2006
- Participant, Earth System Models: The Next Gen., Aspen Global Change Inst. 2006
- Co-Chair, NASA LBA III Synthesis Workshop: Ecosystem Disturbances, New Orleans 2006
- Member, DOE Review Panel 2006
- Invited Participant, NSF-LTER Cyber-infrastructure Requirements for Modeling Workshop 2006
- Contributing Faculty Member, *Faculty of 1000* 2005-
- Member, EPA Review Panel 2004
- Member, Maine Dept of Environmental Protection Science and Economic Policy Resource Panel 2003-10
- Invited Participant, National Research Council 2003
- Lead Author, *Millennium Ecosystem Assessment* 2003
- Editor, *Ecology Letters* 2002-2007
- Director, NASA-UNH Joint Educational Initiative Research & Discover 2002-11
- Member, NASA Review Panel 2002,4,7,8
- Co-Chair, Synthetic analyses of large-scale ecological processes, AGU Meeting, San Francisco 2001
- Member, USGS/NOAA/GFDL Land Model Development Team 2001-
- GCTE Focus 1 Working Group, Terrestrial Ecosystem Responses to Atm. & Climate Change, Pingree Park 2001

- Invited Testimony, House Science Technology and Environment Committee, Concord 2001
- Panelist, US Congressional Briefing, US Capitol, Washington 2001
- Coordinator, Fifteen Students from South America to Participate in Challenges of a Changing Earth, International Geosphere-Biosphere Program, Amsterdam 2001
- Scientific Spokesperson, New England Regional Assessment of the Potential Impacts of Climate Variability and Change, US Global Change Research Program 2001-2002
- Science Team, NASA Earth Science Information Partner EOS-WebSTER 2000-2003
- Coordinator, IKONOS Imagery Tasking for NASA LBA-ECO Project 2000-2002
- Co-Chair, Regional Modeling Group, 1st LBA Science Conference, Belem 2000
- Member, NOAA Carbon Modeling Consortium 1999-2004
- Co-Chair, LBA-Ecology Modeling Workshop, San Francisco 1999
- Member, NASA LBA-Ecology Science Team 1998-2002

REFEREED JOURNALS & PROGRAMS (PARTIAL LISTING 2000+)

- *American Naturalist*
- *British Ecological Society*
- *Earth Interactions*
- *Ecology*
- *Ecological Applications*
- *Ecology Letters*
- *Ecological Modeling*
- *EPA*
- *Faculty of 1000*
- *Frontiers in Ecology and the Environment*
- *Global Change Biology*
- *Geophysical Research Letters*
- *Journal of Geophysical Research*
- *Journal of Land Use Science*
- *NASA*
- *Nature*
- *NOAA*
- *Photogrammetric Engineering & Remote Sensing*
- *Science*