Curriculum vitae

Forrest M. Hoffman

Computational Earth Sciences Group
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Education

M.S., Physics, 2004. University of Tennessee, Knoxville, TN
Advisor: Dr. William E. Blass, Department of Physics and Astronomy
Research Focus: Infrared spectroscopy and atmospheric spectroscopy
Thesis: *Analysis of Reflected Spectral Signatures and Detection of Geophysical Disturbance Using Hyperspectral Imagery*

B.S., Physics, 1991. University of Tennessee, Knoxville, TN
Advisor: Dr. William E. Blass, Department of Physics and Astronomy
Research Focus: Astronomical photometry research and software for data reduction and analysis

Employment

Computational Climate Scientist, joint appointments in the Computer Science & Mathematics Division and the Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee (November 1993–present).

Contributing Editor and Columnist, "Extreme Linux" column, *Linux Magazine* (January 2002–October 2006).

Scientific Programmer/Analyst, Department of Geological Sciences, University of Tennessee, position at Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee (July 1992–November 1993).

Knowledge Engineer, Automated Sciences Group, Inc., position at Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee (May 1989–June 1992).

Researcher Intern, Oak Ridge Associated Universities (ORAU), position at Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee (September 1988–May 1989).

Observer/Telescope Operator, High Altitude Observatory, National Center for Atmospheric Research, position at Mauna Loa Solar Observatory, Hilo, Hawai'i (1987–September 1988).

Professional Organizations

American Geophysical Union (AGU), 2002–present.

American Meteorological Society (AMS), Smoky Mountain Chapter, 1998–present; Chapter President, 2005.

Institute of Electrical and Electronics Engineers (IEEE) Computer Society, 1998–present.

International Environmental Modeling and Software Society (iEMSs), 2006–present.

Sigma Pi Sigma, Physics Honor Society, 1995–present.

Honors and Awards

1st Place, People's Choice Poster Award for "A Cluster Analysis Approach to Comparing Atmospheric Radiation Measurement (ARM) Data with Global Climate Model (GCM) Results," by Forrest M. Hoffman, Salil Mahajan, William W. Hargrove, Richard T. Mills, and Anthony Del Genio. The U.S. Department of Energy, Atmospheric Radiation Measurement (ARM) Program, at the 18th Annual ARM Science Team Meeting in Norfolk, Virginia, March 10–14, 2008.

ORNL Outstanding Mentor Award. Oak Ridge National Laboratory and Oak Ridge Associated Universities, February 2008.

Significant Event Award for contribution to NSF's National Ecological Observatory Network (NEON) Design Committee. Oak Ridge National Laboratory/UT-Battelle, LLC, March 2006.

Outstanding Paper in the Discipline of Landscape Ecology. W. W. Hargrove, F. M. Hoffman and P. M. Schwartz, "A fractal landscape realizer for generating synthetic maps," *Conserv. Ecol.* 6(1):2 (2002). Awarded by the International Association for Landscape Ecology, U. S. Regional Chapter, April 2004.

World-Class Teamwork Award. Oak Ridge National Laboratory Values Committee, October 19, 1999.

President's Award for Continuous Improvement. Oak Ridge National Laboratory/Lockheed Martin Energy Research Corp., November 1997.

ORNL Technical Achievement Award. Oak Ridge National Laboratory/Lockheed Martin Energy Research Corp., 1996.

Distinguished Achievement Award for Operational Support. Oak Ridge National Laboratory, Environmental Sciences Division, August 1995.

Significant Event Award. Martin Marietta Energy Systems, June 1995.

Publications

William L. Bauerle, Ram Oren, Danielle A. Way, Song S. Qian, Paul C. Stoy, Peter E. Thornton, Joseph D. Bowden, Forrest M. Hoffman, and Robert F. Reynolds. Photoperiodic regulation of the seasonal pattern of photosynthetic capacity and the implications for carbon cycling. *Proc. Nat. Acad. Sci.*, 109(22):8612–8617, May 2012. doi:10.1073/pnas.1119131109.

D. N. Huntzinger, W. M. Post, Y. Wei, A. M. Michalak, T. O. West, A. R. Jacobson, I. T. Baker, J. M. Chen, K. J. Davis, D. J. Hayes, F. M. Hoffman, A. K. Jain, S. Liu, A. D. McGuire, R. P. Neilson, Chris Potter, B. Poulter, David Price, B. M. Raczka, H. Q. Tian, P. Thornton, E. Tomelleri, N. Viovy, J. Xiao, W. Yuan, N. Zeng, M. Zhao, and R. Cook. North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. *Ecol. Model.*, 232(0):144–157, May 2012. doi:10.1016/j.ecolmodel.2012.02.004.

Forrest M. Hoffman, J. Walter Larson, Richard Tran Mills, Bjørn-Gustaf J. Brooks, Auroop R. Ganguly, William W. Hargrove, Jian Huang, Jitendra Kumar, and Ranga R. Vatsavai. Data Mining in Earth System Science (DMESS 2011). In Mitsuhisa Sato, Satoshi Matsuoka, Peter M. Sloot, G. Dick van Albada, and Jack Dongarra, editors, *Proceedings of the International Conference on Computational Science*

(ICCS 2011), volume 4 of *Procedia Comput. Sci.*, pages 1450–1455, Amsterdam, June 2011. Elsevier. doi: 10.1016/j.procs.2011.04.157.

Robert Sisneros, Jian Huang, George Ostrouchov, and Forrest Hoffman. Visualizing life zone boundary sensitivities across climate models and temporal spans. In Mitsuhisa Sato, Satoshi Matsuoka, Peter M. Sloot, G. Dick van Albada, and Jack Dongarra, editors, *Proceedings of the International Conference on Computational Science (ICCS 2011)*, volume 4 of *Procedia Comput. Sci.*, pages 1582–1591, Amsterdam, June 2011. Elsevier. doi:10.1016/j.procs.2011.04.171.

Jitendra Kumar, Richard Tran Mills, Forrest M. Hoffman, and William W. Hargrove. Parallel k-means clustering for quantitative ecoregion delineation using large data sets. In Mitsuhisa Sato, Satoshi Matsuoka, Peter M. Sloot, G. Dick van Albada, and Jack Dongarra, editors, *Proceedings of the International Conference on Computational Science (ICCS 2011)*, volume 4 of *Procedia Comput. Sci.*, pages 1602–1611, Amsterdam, June 2011. Elsevier. doi:10.1016/j.procs.2011.04.173.

Richard Tran Mills, Forrest M. Hoffman, Jitendra Kumar, and William W. Hargrove. Cluster analysis-based approaches for geospatiotemporal data mining of massive data sets for identification of forest threats. In Mitsuhisa Sato, Satoshi Matsuoka, Peter M. Sloot, G. Dick van Albada, and Jack Dongarra, editors, *Proceedings of the International Conference on Computational Science (ICCS 2011)*, volume 4 of *Procedia Comput. Sci.*, pages 1612–1621, Amsterdam, June 2011. Elsevier. doi:10.1016/j.procs.2011.04.174.

G. A. Alexandrov, D. Ames, G. Bellocchi, M. Bruen, N. Crout, M. Erechtchoukova, A. Hildebrandt, F. Hoffman, C. Jackisch, P. Khaiter, G. Mannina, T. Matsunaga, S. T. Purucker, M. Rivington, and L. Samaniego. Technical assessment and evaluation of environmental models and software: Letter to the editor. *Environ. Modell. Softw.*, 26(3):328–336, March 2011. doi:10.1016/j.envsoft.2010.08.004. Thematic issue on the assessment and evaluation of environmental models and software.

F. M. Hoffman and J. T. Randerson. The impact of the temperature sensitivity of ecosystem respiration on the climate-carbon cycle feedback strength. Abstract B44A-02 presented at 2010 Fall Meeting, American Geophysical Union (AGU), San Francisco, California, USA, December 2010.

X. Shi, J. Mao, P. E. Thornton, and F. M. Hoffman. The impact of climate, CO_2, nitrogen deposition and land use change on contemporary global river flow. Abstract B41G-0401 presented at 2010 Fall Meeting, American Geophysical Union (AGU), San Francisco, California, USA, December 2010.

M. R. Allen, D. J. Erickson, R. J. Andres, F. M. Hoffman, and M. L. Branstetter. Monthly anthropogenic CO_2 fluxes: Impacts on the atmospheric CO_2 seasonal cycle and implications for models of the terrestrial biosphere. Abstract B41G-0391 presented at 2010 Fall Meeting, American Geophysical Union (AGU), San Francisco, California, USA, December 2010.

R. T. Mills, F. M. Hoffman, J. Kumar, S. S. Vulli, W. W. Hargrove, and J. Spruce. Geospatiotemporal data mining of remotely sensed phenology for unsupervised forest threat detection. Abstract B23G-0462 presented at 2010 Fall Meeting, American Geophysical Union (AGU), San Francisco, California, USA, December 2010.

N. M. Mahowald, S. Kloster, S. Engelstaedter, J. K. Moore, S. Mukhopadhyay, J. R. McConnell, S. Albani, S. C. Doney, A. Bhattacharya, M. A. J. Curran, M. G. Flanner, F. M. Hoffman, D. M. Lawrence, K. Lindsay, P. A. Mayewski, J. Neff, D. Rothenberg, E. Thomas, and P. E. Thornton. Observed 20th century desert dust variability: Impact on climate and biogeochemistry. Abstract A11K-02 presented at 2010 Fall Meeting, American Geophysical Union (AGU), San Francisco, California, USA, December 2010a.

N. M. Mahowald, S. Kloster, S. Engelstaedter, J. K. Moore, S. Mukhopadhyay, J. R. McConnell, S. Albani, S. C. Doney, A. Bhattacharya, M. A. J. Curran, M. G. Flanner, F. M. Hoffman, D. M. Lawrence, K. Lindsay, P. A. Mayewski, J. Neff, D. Rothenberg, E. Thomas, P. E. Thornton, and C. S. Zender. Observed 20th century desert dust variability: Impact on climate and biogeochemistry. *Atmos. Chem. Phys.*, 10 (22):10875–10893, November 2010b. doi:10.5194/acp-10-10875-2010.

Forrest M. Hoffman, Richard T. Mills, Jitendra Kumar, Srinivasa S. Vulli, and William W. Hargrove. Geospatiotemporal data mining in an early warning system for forest threats in the United States. In *Proceedings of the 2010 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2010)*, pages 170–173, July 2010. ISBN 978-1-4244-9566-5. doi:10.1109/IGARSS.2010.5653935. Invited.

Silvia Kloster, Natalie M. Mahowald, James T. Randerson, Peter E. Thornton, Forrest M. Hoffman, Samuel Levis, Peter J. Lawrence, Johan J. Feddema, Keith W. Oleson, and David M. Lawrence. Fire dynamics during the 20th century simulated by the Community Land Model. *Biogeosci.*, 7(6):1877–1902, June 2010. doi:10.5194/bg-7-1877-2010.

Keith W. Oleson, David M. Lawrence, Gordon B. Bonan, Mark G. Flanner, Erik Kluzek, Peter J. Lawrence, Samuel Levis, Sean C. Swenson, Peter E. Thornton, Aiguo Dai, Mark Decker, Robert Dickinson, Johannes Feddema, Colette Heald, Forrest Hoffman, Jean-François Lamarque, Natalie Mahowald, Guo-Yue Niu, Taotao Qian, James Randerson, Steve Running, Koichi Sakaguchi, Andrew Slater, Reto Stöckli, Aihui Wang, Zong-Liang Yang, Xiaodong Zeng, and Xubin Zeng. Technical description of version 4.0 of the Community Land Model (CLM). Technical Note NCAR/TN-478+STR, National Center for Atmospheric Research, Boulder, Colorado, USA, March 2010. URL `http://www.cesm.ucar.edu/models/cesm1.0/clm/CLM4_Tech_Note.pdf`.

Barry Baker, Henry Diaz, William Hargrove, and Forrest Hoffman. Use of the Köppen-Trewartha climate classification to evaluate climatic refugia in statistically derived ecoregions for the People's Republic of China. *Clim. Change*, 98(1):113–131, January 2010. ISSN 0165-0009. doi:10.1007/s10584-009-9622-2.

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David J. Erickson, Steven Pawson, Jamison Daniel, Melissa Allen, L. E. Ott, Auroop Ganguly, E. Nielsen, and Forrest M. Hoffman. Atmospheric CO_2 simulation inside GEOS-5: Data mining, evaluation and treaty verification. *Eos Trans. AGU*, 90(52), December 2009. Fall Meet. Suppl., Abstract A51A-0078.

William W. Hargrove, Joseph P. Spruce, Gerald E. Gasser, and Forrest M. Hoffman. Toward a national early warning system for forest disturbances using remotely sensed land surface phenology. *Eos Trans. AGU*, 90(52), December 2009a. Fall Meet. Suppl., Abstract B42B-06.

Peter E. Thornton, Forrest M. Hoffman, and George C. Hurtt. 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 CO_2 and anthropogenic nitrogen deposition. *Eos Trans. AGU*, 90(52), December 2009. Fall Meet. Suppl., Abstract B24B-06.

Forrest M. Hoffman, James T. Randerson, Peter E. Thornton, Gordon B. Bonan, Bjørn J. Brooks, and Inez Y. Fung. An international land-biosphere model benchmarking activity for the IPCC Fifth Assessment Report (AR5). *Eos Trans. AGU*, 90(52), December 2009a. Fall Meet. Suppl., Abstract B23G-08.

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James T. Randerson, Forrest M. Hoffman, Peter E. Thornton, Natalie M. Mahowald, Keith Lindsay, Yen-Huei Lee, Cynthia D. Nevison, Scott C. Doney, Gordon Bonan, Reto Stöckli, Curtis Covey, Steven W. Running, and Inez Y. Fung. Systematic assessment of terrestrial biogeochemistry in coupled climate-carbon models. *Global Change Biol.*, 15(10):2462–2484, October 2009. ISSN 1365-2486. doi:10.1111/j.1365-2486.2009.01912.x.

Forrest M. Hoffman, James T. Randerson, Inez Y. Fung, Peter E. Thornton, Natalie M. Mahowald, Gordon B. Bonan, and Steven W. Running. The Carbon-Land Model Intercomparison Project (C-LAMP): A prototype for coupled biosphere-atmosphere model benchmarking for the IPCC Fifth Assessment Report (AR5). In Anni Reissell, Marjut Nyman, Miia Vesala, and Tyyne Viisanen, editors, *Water in a Changing Climate — Progress in Land-Atmosphere Interactions and Energy/Water Cycle Research*, volume 1 of *Proceedings of the 6th International Scientific Conference on the Global Energy and Water Cycle (GEWEX) and 2nd International Land Ecosystem-Atmosphere Processes Study (iLEAPS) Science Conference*, pages 126–127, Melbourne, Australia, August 2009c. ISBN 978-952-5855-01-2.

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C. Ryan Johnson, Markus Glatter, Wesley Kendall, Jian Huang, and Forrest M. Hoffman. Querying for feature extraction and visualization in climate modeling. In Gabrielle Allen, Jarosław Nabrzyski, Edward Seidel, Geert Dick van Albada, Jack Dongarra, and Peter M.A. Sloot, editors, *Proceedings of the 9th International Conference on Computational Science (ICCS 2009)*, volume 5545 of *Lecture Notes in Computer Science (LNCS)*, pages 416–425, Heidelberg, May 2009. Springer-Verlag. ISBN 978-3-642-01972-2. doi:10.1007/978-3-642-01973-9_46.

Yong Xue, Forrest M. Hoffman, and Dingsheng Liu. GeoComputation 2009. In Gabrielle Allen, Jarosław Nabrzyski, Edward Seidel, Geert Dick van Albada, Jack Dongarra, and Peter M.A. Sloot, editors, *Proceedings of the 9th International Conference on Computational Science (ICCS 2009)*, volume 5545 of *Lecture Notes in Computer Science (LNCS)*, pages 345–348, Heidelberg, May 2009. Springer-Verlag. ISBN 978-3-642-01972-2. doi:10.1007/978-3-642-01973-9_38.

Richard T. Mills, Forrest M. Hoffman, Patrick H. Worley, Kalyan S. Perumalla, Art Mirin, Glenn E. Hammond, and Barry F. Smith. Coping at the user-level with resource limitations in the Cray Message Passing Toolkit MPI at scale: How not to spend your summer vacation. In *Proceedings of the 2009 Cray User Group (CUG) Conference*, May 2009.

Robert Sisneros, Markus Glatter, Brandon Langley, Jian Huang, Forrest Hoffman, and David J. Erickson III. Time-varying multivariate visualization for understanding terrestrial biogeochemistry. *J. Phys.: Conf. Ser.*, 125(1):012093, December 2008. doi:10.1088/1742-6596/125/1/012093.

Forrest M. Hoffman, James T. Randerson, Inez Y. Fung, Peter Thornton, Curtis Covey, Gordon Bonan, Steven Running, and Richard Norby. Comparison of global model results from the Carbon-Land Model Intercomparison Project (C-LAMP) with Free-Air Carbon Dioxide Enrichment (FACE) manipulation experiments. *Eos Trans. AGU*, 89(53), December 2008a. Fall Meet. Suppl., Abstract B51E-0447.

William W. Hargrove, Joe Spruce, Gerry Gasser, Forrest M. Hoffman, and Danny Lee. A new national MODIS-derived phenology data set every 16 days, 2002 through 2006. *Eos Trans. AGU*, 89(53), December 2008. Fall Meet. Suppl., Abstract B51B-0373.

Richard J. Norby, J. M. Warren, C. M. Iversen, B. E. Medlyn, R. E. McMurtrie, and Forrest M. Hoffman. Nitrogen limitation is reducing the enhancement of NPP by elevated CO_2 in a deciduous forest. *Eos Trans. AGU*, 89(53), December 2008. Fall Meet. Suppl., Abstract B32B-05, Invited.

David J. Erickson, Auroop Ganguly, Karsten Steinhaeuser, Marcia Branstetter, Robert J. Oglesby, Forrest M. Hoffman, and Lawrence Buja. Extreme climate event trends: The data mining and evaluation of the A1FI scenario for 2000–2100. *Eos Trans. AGU*, 89(53), December 2008. Fall Meet. Suppl., Abstract H12B-03, Invited.

Forrest M. Hoffman, James T. Randerson, Inez Y. Fung, Peter E. Thornton, Yen-Huei “Jeff” Lee, Curtis C. Covey, Gordon B. Bonan, and Steven W. Running. The Carbon-Land Model Intercomparison Project (C-LAMP): A protocol and evaluation metrics for global terrestrial biogeochemistry models. In Miquel

Sànchez-Marrè, Javier Béjar, Joaquim Comas, Andrea E. Rizzoli, and Giorgio Guariso, editors, *Proceedings of the iEMSs Fourth Biennial Meeting: International Congress on Environmental Modelling and Software Society (iEMSs 2008)*, pages 1039–1046, July 2008b. ISBN 978-84-7653-074-0.

Forrest M. Hoffman, William W. Hargrove, Richard T. Mills, Salil Mahajan, David J. Erickson, and Robert J. Oglesby. Multivariate Spatio-Temporal Clustering (MSTC) as a data mining tool for environmental applications. In Miquel Sànchez-Marrè, Javier Béjar, Joaquim Comas, Andrea E. Rizzoli, and Giorgio Guariso, editors, *Proceedings of the iEMSs Fourth Biennial Meeting: International Congress on Environmental Modelling and Software Society (iEMSs 2008)*, pages 1774–1781, July 2008c. ISBN 978-84-7653-074-0.

Michael Keller, David Schimel, William Hargrove, and Forrest Hoffman. A continental strategy for the National Ecological Observatory Network. *Front. Ecol. Environ.*, 6(5):282–284, June 2008. doi: 10.1890/1540-9295(2008)6[282:ACSFTN]2.0.CO;2. Special Issue on Continental-Scale Ecology.

Wesley Kendall, Markus Glatter, Jian Huang, Forrest Hoffman, and David E. Bernholdt. Web enabled collaborative climate visualization in the earth system grid. In *Proceedings of the International Symposium on Collaborative Technologies and Systems 2008 (CTS 2008)*, pages 212–220, May 2008. ISBN 978-1-4244-2248-7. doi:10.1109/CTS.2008.4543934.

David J. Erickson III, Richard T. Mills, Jay Gregg, T. J. Blasing, Forrest M. Hoffman, Robert J. Andres, Matthew Devries, Z. Zhu, and S. R. Kawa. An estimate of monthly global emissions of anthropogenic CO_2: Impact on the seasonal cycle of atmospheric CO_2. *J. Geophys. Res.*, 113(G1):G01023, March 2008. doi:10.1029/2007JG000435.

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William W. Hargrove and Forrest M. Hoffman. Multivariate geographic clustering as a basis for ecoregionalization in the environmental sciences. *Eos Trans. AGU*, 87(52), December 2006a. Fall Meet. Suppl., Abstract IN41C-02, Invited.

David J. Erickson, T. J. Blasing, Forrest M. Hoffman, Richard T. Mills, Z. Zhu, and Stephan R. Kawa. Monthly global emissions of anthropogenic CO_2: Atmospheric CO_2 transport calculations based on NASA data assimilation. *Eos Trans. AGU*, 87(52), December 2006a. Fall Meet. Suppl., Abstract A41C-0044.

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