

DAVID M. THEOBALD, PH.D.

Department of Human Dimensions of Natural Resources & Natural Resource Ecology Laboratory
Warner College of Natural Resources
Colorado State University, Fort Collins, CO 80523-1499 (970) 491-5122; (970) 491-1965 (FAX)
Forestry Building Room 245, N40.574°, W105.801° (WGS84)
davet@cnr.colostate.edu, <http://nrel.colostate.edu/~davet>

EDUCATION

- 1995 Ph.D., Department of Geography, University of Colorado, Boulder. *Morphology and Effects of Mountain Land Use Change in Colorado: A Multi-Scale Landscape Analysis*.
- 1990 M.A., Department of Geography, University of California, Santa Barbara. *Delineation of Hydromorphology on TIN-based Surfaces*.
- 1986 B.A., Department of Geography, University of Colorado, Boulder.

ACADEMIC APPOINTMENTS

- 2005 - *Associate Professor*, Department of Human Dimensions of Natural Resources, College of Natural Resources, Colorado State University.
- 2002 - *Faculty member*, Graduate Degree Program in Ecology, Colorado State University.
- 2001 - *Research Scientist*, Natural Resource Ecology Laboratory, Colorado State University.
- 2001 - 2005 *Assistant Professor*, Department of Natural Resources Recreation & Tourism, College of Natural Resources, Colorado State University.
- 2000 - 2001 *Scientist*, Natural Resource Ecology Laboratory, Colorado State University. February 2000 to 2001.
- 1995- 2000 *Post-Doctoral Research Associate*, Natural Resource Ecology Laboratory, Colorado State University. June 1995 to February 2000.

PUBLICATIONS

Peer-reviewed journal articles

- In press* Ferraz, S.F.B., C.A. Vettorazzi, and D.M. Theobald. (*In press*). Using indicators of deforestation and historical land use to support conservation strategies: A case study of central Rondonia, Brazil. *Forest Ecology and Management*. (accepted 6 January 2009)
- Magle, S.B., D.M. Theobald, and K.R. Crooks. (*In press*). A comparison of metrics predicting landscape connectivity for a highly interactive species along an urban gradient in Colorado, USA. *Landscape Ecology*. (accepted 1 November 2008; resubmitted 15 October 2008).
- Pettebone, D., P. Newman, and D.M. Theobald. (*In press*). A comparison of sampling designs for monitoring recreational trail impacts in Rocky Mountain National Park. *Environmental Management*. (accepted December 18 2008).
- Theobald, D.M., S.J. Goetz, J. B. Norman, and P. Jantz. (*in press*). Watersheds at risk to increased impervious surface in the conterminous United States. *Journal of Hydrologic*

Engineering (Submitted 12 February 2008; revised 27 May 2008; accepted 10 June 2008).

Theobald, D.M., A. Wade, G. Wilcox, and N. Peterson. (*In press*). Analyzing risks to protected areas using the human modification framework: A Colorado case-study. *Forest Encyclopedia – USFS Threats to Wildlands*.

2008 Wallace, G.N., D.M. Theobald, T. Ernst, and K. King. 2008. Assessing the ecological and social benefits of private land conservation in Colorado. *Conservation Biology* 22(2): 284-296.

^Baruch-Mordo, S., S.W. Breck, K.R. Wilson, and D.M. Theobald. 2008. Spatiotemporal distribution of black bear-human conflicts in Colorado. *Journal of Wildlife Management* 72: 1853-1862.

2007 Theobald, D.M. and W.H. Romme. 2007. Expansion of the US wildland-urban interface. *Landscape and Urban Planning* 83: 340-354.

Theobald, D.M., D.L. Stevens, Jr., D. White, N.S. Urquhart, A.R. Olsen, and J.B. Norman. 2007. Using GIS to generate spatially-balanced random survey designs for natural resource applications. *Environmental Management* 40(1): 134-146.

Theobald, D.M. 2007. Evaluating the cumulative effects of development by analyzing alternative build-out scenarios: A case study of Ouray County, Colorado. *Journal of Conservation Planning* 3: 57-78.

Newman, P., C. Monz, Y. Leung, and D.M. Theobald. 2006. Monitoring campsite proliferation and conditions: Recent methodological considerations. *The George Wright Forum* 23(2): 28-35.

Peterson, E.E., D.M. Theobald, and J.M. Ver Hoef. 2007. Geostatistical modeling on stream networks: Developing valid covariance matrices based on hydrologic distance and stream flow. *Freshwater Biology* 52: 267-279.

2006 Finn, D.S., D.M. Theobald, N.L. Poff, and W.C. Black, IV. 2006. Spatial population genetic structure and limited dispersal in a Rocky Mountain alpine stream insect. *Molecular Ecology* 15: 3553-3566.

Peterson, E.E., A.A. Merton, D.M. Theobald, and N.S. Urquhart. 2006. Patterns of spatial autocorrelation in stream water chemistry. *Environmental Monitoring and Assessment* 121: 571-596.

Ver Hoef, J.M., E.E. Peterson, and D.M. Theobald. 2006. Spatial statistical models that use flow and stream distance. *Environmental and Ecological Statistics* 13: 449-464.

2005 Theobald, D.M., T. Spies, J. Kline, B. Maxwell, N.T. Hobbs, and V.H. Dale. 2005. Ecological support for rural land-use planning. *Ecological Applications* 15(6): 1906-1914.

Brown, D.G., K.M. Johnson, T.R. Loveland, and D.M. Theobald. 2005. Rural land-use trends in the conterminous U.S., 1950-2000. *Ecological Applications* 15(6): 1851-1863.

Theobald, D.M. 2005. Landscape patterns of exurban growth in the USA from 1980 to 2020. *Ecology and Society* 10(1): 32. [online] URL: <http://www.ecologyandsociety.org/vol10/iss1/art32/>.

- Theobald, D.M. 2005. A note on creating robust resistance surfaces for computing functional landscape connectivity. *Ecology and Society* 10 (2): r1. [online] URL: <http://www.ecologyandsociety.org/vol10/iss2/resp1/>
- Manier, D.J., N.T. Hobbs, D.M. Theobald, R.M. Reich, M. Kalkhan, and M.R. Campbell. 2005. Canopy dynamics and human-caused disturbance on a semi-arid landscape in the Rocky Mountains, USA. *Landscape Ecology* 20:1-17.
- Farnsworth, M.L., L.L. Wolfe, N.T. Hobbs, K.P. Burnham, E.S. Williams, D.M. Theobald, and M.W. Miller. 2005. Human land use influences chronic wasting disease prevalence in mule deer. *Ecological Applications* 15(1):119-126.
- Ferraz, S.F.B., C.A. Vettorazzi, D.M. Theobald, and M.V.R. Ballester. 2005. Landscape dynamics assessment of Amazon deforestation between 1984 and 2002 in central Rondonia: assessment and future scenarios. *Forest Ecology and Management* 204: 67-83.
- 2004 Cova, T.J., P. Sutton, and D.M. Theobald. 2004. Exurban change detection in fire-prone areas with nighttime satellite imagery. *Photogrammetric Engineering & Remote Sensing* 70(11): 1249-1257. ***see Honors and Awards
- Theobald, D.M. 2004. Placing exurban land use change in a human modification framework. *Frontiers in Ecology and Environment* 2(3):139-144.
- 2003 Weiler, S. and D.M. Theobald. 2003. Pioneers of rural sprawl in the Rocky Mountain West. *The Review of Regional Studies* 33(3): 264-283.
- Theobald, D.M. 2003. Targeting conservation action through assessment of protection and exurban threats. *Conservation Biology* 17(6):1624-1637.
- Miller, J.R., J.A. Wiens, N.T. Hobbs, and D.M. Theobald. 2003. Effects of human settlement on bird communities in lowland riparian areas of Colorado (USA). *Ecological Applications* 13(4):1041-1059.
- Odell, E.A., D.M. Theobald, and R.L. Knight. 2003. Incorporating ecology into land use planning: The songbird's case for cluster development. *Journal of American Planning Association* 69(1):72-81.
- 2002 Theobald, D.M. and N.T. Hobbs. 2002. A framework for evaluating land use planning alternatives: Protecting biodiversity on private land. *Conservation Ecology* 6(1): 5. [online] URL: <http://www.ecologyandsociety.org/vol6/iss1/art5>
- 2001 Theobald, D.M. 2001. Land use dynamics beyond the American urban fringe. *Geographical Review* 91(3):544-564.
- Theobald, D.M. 2001. Topology revisited: Representing spatial relations. *International Journal of Geographical Information Science* 15(8):689-705.
- 2000 Theobald, D.M. 2000. Correcting linear and perimeter measurement errors in raster-based data. *Cartography and Geographic Information Science* 27(2):111-116.
- Baron, J.S., D.M. Theobald, and D.B. Fagre. 2000. Management of land use conflicts in the United States Rocky Mountains. *Mountain Research and Development* 20(1): 24-27.
- Theobald, D.M., N.T. Hobbs, T. Bearly, J. Zack, T. Shenk, and W.E. Riebsame. 2000. Incorporating biological information into local land-use decision making: Designing a system for conservation planning. *Landscape Ecology* 15(1): 35-45.

- 1998 Theobald, D.M. and N.T. Hobbs. 1998. Forecasting rural land use change: A comparison of regression- and spatial transition-based models. *Geographical & Environmental Modelling* 2(1): 65-82.
- 1997 Theobald, D.M., J.M. Miller and N.T. Hobbs. 1997. Estimating the cumulative effects of development on wildlife habitat. *Landscape and Urban Planning* 39(1): 25-36.
- 1996 Riebsame, W.E., H. Gosnell and D.M. Theobald. 1996. Land use and landscape change in the Colorado mountains I: Theory, scale, and pattern. *Mountain Research and Development* 16(4): 395-405.
- Theobald, D.M., H. Gosnell, and W.E. Riebsame. 1996. Land use and landscape change in the Colorado mountains II: A case study of the East River Valley, Colorado. *Mountain Research and Development* 16(4): 407-418.
- 1995 Theobald, D.M., S.H. Huntsman, and J.R. Supra, Jr. 1995. World System Simulation: A generational perspective on global systems. *Simulation & Gaming* 26: 249-260.
- 1994 Theobald, D.M. and M.D. Gross. 1994. EML: A modeling environment for exploring landscape dynamics. *Computers, Environment and Urban Systems* 18: 193-204.

Books

- 2007 Theobald, D.M. 2007. *GIS Concepts and ArcGIS Methods (3rd Edition)*. Conservation Planning Technologies: Fort Collins, CO.
- 2005 Theobald, D.M. 2005. *GIS Concepts and ArcGIS Methods (2nd Edition)*. Conservation Planning Technologies: Fort Collins, CO.
- 2003 Theobald, D.M. 2003. *GIS Concepts and ArcGIS Methods*. Conservation Planning Technologies: Fort Collins, CO.
- 1999 Theobald, D.M. 1999. *GIS Concepts and ArcView Methods*. Conservation Planning Technologies: Fort Collins, CO.
- 1997 Riebsame, W.E., H. Gosnell, and D.M. Theobald (eds). 1997. *Atlas of the New West: Portrait of a Changing Region*. New York: Norton Press.

Book Chapters (*refereed)

- 2007 Farnsworth, M.L., L.L. Wolfe, N.T. Hobbs, K.P. Burnham, E.S. Williams, D.M. Theobald, and M.W. Miller. 2005. The role of geographic information systems in wildlife landscape epidemiology: models of chronic wasting disease in Colorado mule deer. *Veterinaria Italiana* 43(3): 581-594.
- Theobald, D.M. 2007. Challenges in bridging conservation science and land use planning. In Kihslinger, R.L. and J. Wilkinson (eds.) *Lasting Landscapes: Reflections on the Role of Conservation Science in Land Use Planning*. Washington D.C.: Environmental Law Institute.
- 2006 *Theobald, D.M. 2006. Exploring the functional connectivity of landscapes using landscape networks. In: Crooks, K.R. and M.A. Sanjayan (eds.). *Connectivity conservation: Maintaining connections for nature*. Cambridge University Press. Pgs. 416-443.
- 2004 *Baron, J.S., S. del Grosso, D.S. Ojima, D.M. Theobald, W.J. Parton. 2004. Nitrogen emissions along the Colorado Front Range: Response to population growth, land and

- water use change, and agriculture. In *Ecosystem Interactions with Land Use Change*, R. DeFries, G. Asner, and S. Houghton (eds.). AGU Monograph Series 153. Pgs. 117-127.
- 2003 Theobald, D.M. 2003. Connected landscapes. Pages 65-68, M. Licker, editor. *Yearbook of Science & Technology*. New York, NY: McGraw-Hill.
- 2001 Theobald, D.M. and N.T. Hobbs. 2002. Collaborative development of a conservation planning system: A case study of Summit County, Colorado. In: *Rocky Mountain Futures*, J. Baron (ed.). Island Press, Washington, DC. Pgs. 255-268.
- Travis, W.E., D.M. Theobald, and D. Fagre. 2002. Transforming the Rockies: Human forces, settlement patterns, and ecosystem effects. In: *Rocky Mountain Futures*, J. Baron (ed.), Island Press, Washington, DC. Pgs. 1-24.
- Sullins, M.J., D.M. Theobald, J.R. Jones, and L.M. Burgess. 2002. The lay of the land: ranch land and ranching. In: *Culture, Economics, and Ecology of Ranching West of the 100th Meridian*, R. Knight, W. Gilgert, and E. Marston, editors. Island Press. Pgs. 25-32.
- 2001 Hobbs, N.T. and D.M. Theobald. 2001. Effects of land-use change on wildlife habitat: Applying ecological principles and guidelines in the Western United States. In *Applying Ecological Principles to Land Management*, V.H. Dale and R. Haeuber, editors. Springer-Verlag.
- *Theobald, D.M. and N. T. Hobbs. 2001. Functional definition of landscape structure using a gradient-based approach. In *Predicting Plant and Animal Occurrences: Issues of Scale and Accuracy*, edited by J.M. Scott, P.J. Heglund, M. Morrison, M. Raphael, J. Haufler, and B. Wall. Island Press, Covello, CA. Pgs. 667-672.
- *Miller, J.R., J.M. Fraterrigo, N.T. Hobbs, D.M. Theobald, and J.A. Wiens. 2001. Urbanization, avian communities, and landscape ecology. In *Avian Ecology in an Urbanizing World*. J.M. Marzluff, R. Bowman, and R. Donnelly (eds). Kluwer, New York. Pgs. 113-137.
- 2000 *Theobald, D.M. 2000. Fragmentation by inholdings and exurban development. In *Forest fragmentation in the southern Rocky Mountains*, R.L. Knight, F.W. Smith, S.W. Buskirk, W.H. Romme, and W.L. Baker, editors. University Press of Colorado: Boulder, Colorado. Pgs. 155-174.
- 1989 Theobald, D.M. 1989. Accuracy and bias issues in surface representation. In *The Accuracy of Spatial Databases*, M.F. Goodchild and S. Gopal eds., pp. 99-106. Bristol, PA: Taylor & Francis.

Technical Reports, Conference Proceedings, Databases, and Programs (*refereed)

- 2008 *Theobald, D.M. 2008. *Network and accessibility methods to estimate the human use of ecosystems*. Proceedings of the International Conference on Geographic Information Science AGILE (Association of Geographic Information Labs Europe), Girona, Spain. 7 pgs.
- Choate, A., J. Cohen, P. Groth, D.M. Theobald. 2008. *Integrated climate and land-use scenarios*. Report to US EPA Global Change Research Program. DRAFT.
- Theobald, D.M. *SERGoM v3 forecasts of housing density classes from 1970 to 2030 for the coterminous US for the Forests on the Edge project*. Unpublished ArcGIS raster dataset. Natural Resource Ecology Lab, Colorado State University. 27 March 2008.

- Crooks, K., C. Haas, S. Baruch-Mordo, K. Middledorf, S. Magle, T. Shenk, K. Wilson, and D. Theobald. 2008. *Roads and connectivity in Colorado: Animal-vehicle collisions, wildlife mitigation structures, and lynx-roadway interactions*. Final report to Colorado Department of Transportation. 179 pgs.
- 2007 Stein, S.M., R. Alig, E.M. White, S.J. Comas, M. Carr, M. Eley, K. Elverum, M. O'Donnell, D.M. Theobald, K. Cordell, J. Haber, and T.W. Beauvais. 2007. *National Forests on the Edge: Development pressures on America's National Forest System*. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, PNW-GTR-728. August 2007.
- Theobald, D.M. 2007. Challenges in bridging conservation biology and land use planning. *Lasting landscapes: Reflections on the role of conservation science in land use planning*. Environmental Law Institute, Washington, D.C.
- Crooks, K., C. Haas, S. Baruch-Mordo, K. Middledorf, S. Magle, T. Shenk, K. Wilson, and D. Theobald. 2007. *Roads and connectivity in Colorado: Animal-vehicle collisions, wildlife mitigation structures, and lynx-roadway interactions*. Final Report to CDOT. Unpublished report. Colorado State University, Fort Collins, CO.
- Theobald, D.M., G. Wilcox, and J. Whisman. 2007. Inventory of open space in Colorado: Status and trends of protected lands in 2007. Report for Great Outdoors Colorado, unpublished report. Natural Resource Ecology Lab, Colorado State University. 62 pgs.
- Theobald, D.M. 2007. *LCaP v1.0: Landscape Connectivity and Pattern tools for ArcGIS*. Colorado State University, Fort Collins, CO.
- Theobald, D.M. and J.B. Norman. 2007. Functional Linkage of Watersheds and Streams: ArcGIS tools for network-based analysis of freshwater ecosystems. *Hydro Line*, Spring. http://www.esri.com/library/newsletters/hydroline/hydroline_spring2007.pdf.
- 2006 US Forest Service. 2006. Cooperating across boundaries: Partnerships to conserve open space in rural America. US Department of Agriculture, Forest Service. FS-861 report. (contributing "partner").
- Theobald, D.M. and J.B. Norman. 2006. Reversed Randomized Quadrant Recursive Raster (RRQRR) v1 Users Guide: ArcGIS tools for probabilistic spatially-balanced sample design.. August 2006. www.nrel.colostate.edu/projects/starmap
- Theobald, D.M., J.B. Norman, E. Peterson, A.Wade, and S. Ferraz. 2006. Functional Linkage of Watersheds and Streams (FLoWs) User's Manual: Network-based ArcGIS tools to analyze freshwater ecosystems. May 2006. www.nrel.colostate.edu/projects/starmap
- Theobald, D.M., J.B. Norman, and M.R. Sherburne. 2006. FunConn v1 User's Manual: ArcGIS tools for Functional Connectivity Modeling. Natural Resource Ecology Lab, Colorado State University. April 17, 2006. 47 pages. www.nrel.colostate.edu/projects/starmap
- Crooks, K.R., D.M. Theobald, S. Baruch-Mordo, M. Sherburne, J. Norman, and K. Wilson. 2006. *Highway corridor wildlife mitigation/habitat connectivity study, Phase I Report: Biological prioritization of highway segments in Colorado*. Colorado State University unpublished report to the Colorado Department of Transportation, 13 February.

- 2005 Theobald, D.M., N. Peterson, and G. Wilcox. 2005. *Colorado Ownership, Management, and Protection v4 database*. Natural Resource Ecology Lab, Colorado State University, Fort Collins, CO. 30 June 2005. www.nrel.colostate.edu/projects/comap
- Theobald, D.M. 2005. *A summary of patterns and trends of land use in Colorado*. Unpublished report. Natural Resource Ecology Laboratory, Colorado State University. Ft. Collins, CO. May 24.
- Stein, S.M., R.E. McRoberts, R. Alig, M.D. Nelson, D.M. Theobald, M. Eley, M. Dechter, and M. Carr. 2005. *Forests on the Edge: Housing development on America's private forests*. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station PNW-GTR-636. May 2005. <Online> URL: <http://www.fs.fed.us/projects/fote/reports/fote-6-9-05.pdf>
- Theobald, D.M., J. Norman, E. Peterson, and S. Ferraz. 2005. Functional Linkage of Watersheds and Streams (FLoWs): Network-based ArcGIS tools to analyze freshwater ecosystems. *Proceedings of the ESRI User Conference 2005*. San Diego, CA. July 26.
- 2004 Stein, S.M., R.E. McRoberts, M.D. Nelson, D.M. Theobald, M. Eley, and M. Dechter. 2004. Forests on the Edge: A GIS-based approach to projecting housing development on private forests. In: *Monitoring Science and Technology Symposium: Unifying Knowledge for Sustainability in the Western Hemisphere*; Aguirre-Bravo, C., et. al. (eds). 2004 September 20-24; Denver, CO. Proceedings RMRS-P-000. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.
- Theobald, D.M., N. Peterson, J. Terlaak, and G. Wilcox. 2004. Mapping and assessment of protected areas and broad-scale threats in the shortgrass prairie of Colorado. Unpublished report for Colorado Division of Wildlife, 30 June 2004. Natural Resource Ecology Lab, Colorado State University.
- Newman, P. and D.M. Theobald. 2004. *Building capacity in the Consortium for Protected Areas Management: Training Latin American park managers and the trainers that train them*. Report to CIPAM, USFS. 20 January.
- 2003 Hobbs, N.T., J.S. Baron, S. Cooney, D.J. Cooper, J.E. Dickens, H. Galbraith, A.P. Covich, J.B. Loomis, E. Martinson, D. Ojima, R.D. Scherer, D.M. Theobald, G. Wang, S.A. Weiler. 2003. Future impacts of global climate on Rocky Mountain National Park: Its ecosystems, visitors, and the economy of its gateway community – Estes Park. EPA STAR Final Report. http://www.nrel.colostate.edu/projects/star/papers/2003_final_report.pdf
- Theobald, D.M. *Defining and mapping rural sprawl: Examples from the Northwest US*. Growth Management Leadership Alliance white paper. 16 September 2003.
- Theobald, D.M. 2003. *Regional growth and development maps for Colorado*. Colorado Natural Diversity Information Source [<http://ndis.nrel.colostate.edu/conservationcnty.asp?reg=nfr>]
- Kotliar, N.B., S. Simonson, G. Chong, and D. Theobald. 2003. *Effects on species of concern*. RMRS-GTR-114-5, part 8: Hayman Fire Pgs. 250-262.
- Theobald, D.M., N. Peterson, and W. Romme. 2003. *The Colorado Vegetation Model: Using National Land Cover Data and Ancillary Spatial Data To Produce A High Resolution, Fine-Classification Map of Colorado (v1.0)*. 29 April. Unpublished report, Natural Resource Ecology Lab, Colorado State University. Report and database available at: www.ndis.nrel.colostate.edu/davet/cvm.htm.

- 2002 Theobald, D.M. 2002. Modeling functional landscape connectivity. Proceedings of the ESRI User Conference 2002. San Diego, CA. July 11.
(<http://gis.esri.com/library/userconf/proc02/pap1109/P1109.HTM>)
- W.R. Travis, D.M. Theobald, G. Mixon, and T. Dickinson. 2002. [Western Futures: A Look into the Patterns of Land Use and Future Development in the American West](#). Report from the Center No. 6. Center of the American West, University of Colorado, Boulder.
- Theobald, D.M. 2002. Landscape Connectivity Model extension, v0.5. Unpublished report, Natural Resource Ecology Lab, Colorado State University. 31 March.
- Theobald, D.M. and M. Kneeland. 2002. Mapping housing density for prioritization of urban/forest wildfire hazards in Colorado. Unpublished report, Natural Resource Ecology Lab, Colorado State University. 28 February. Pgs. 9.
- Theobald, D.M. and W. Romme. 2002. Mapping forest vegetation for prioritization of urban/forest wildfire hazards in Colorado. Unpublished report, Natural Resource Ecology Lab, Colorado State University. 28 February. Pgs. 8.
- 2001 Theobald, D.M., D. Schrupp, and L. O'Brien. 2001. *A method to assess risk of habitat loss to development: A Colorado case study*. USGS-BRD Gap Analysis Program Bulletin 10. URL: <<http://www.gap.uidaho.edu/Bulletins/10/bulletin10.htm>>
- Theobald, D.M. 2001. *Modeling impacts of growth on Colorado riparian areas*. Proceedings of the Colorado Riparian Association annual meeting. Glenwood Springs, CO. 4 October.
- Theobald, D.M. 2001. *Documentation of methods to produce factor maps for the Lower Gunnison Basin Conservation Lands Inventory*. Report for the Delta Soil Conservation District, Colorado. 24 August. 4 pgs.
- Mapping the Forest-Development Fringe in Colorado*. Unpublished report. Natural Resource Ecology Lab, Colorado State University. 18 July.
- Theobald, D.M., D. Schrupp, and L. O'Brien. 2001. *Assessing risk of habitat loss due to private land development in Colorado*. Final report for Cooperative Agreement No. 00HQAG0010, USGS-BRD Gap Analysis Program. 29 June. 62 pages.
- Neely, B., G. Bell, P. Comer, H. Copeland, J. Humke, M. Lammert, C. Moritz, C. Pague, R. Rondeau, T. Schulz, S. Spackman, D. Theobald, and L. Valutis. 2001. *Southern Rocky Mountains: An Ecoregional Assessment and Conservation Blueprint*. The Nature Conservancy. September.
- Theobald, D.M. 2001. *Dealing with sensitive data: A report and a request*. Society for Conservation GIS e-newsletter 1(2). June 2001. URL: http://www.scgis.org/newsletters/v1_v2/scgis_news_1_2_revised.html
- Theobald, D.M. 2001. *Technical description of mapping historical, current, and future housing densities in the US using Census block-groups*. Natural Resource Ecology Lab, Colorado State University. 31 May. http://www.ndis.nrel.colostate.edu/davet/dev_patterns.htm
- Theobald, D.M. 2001. *Quantitative measures of the urban-rural gradient*. Annual meeting of the International Association of Landscape Ecology. Phoenix, AZ. April 27.
- Theobald, D.M. 2001. Understanding topology and shapefiles. *ArcUser* (Spring): 24-26. <http://www.esri.com/news/arcuser/0401/topo.html>

- Theobald, D.M. *ISITES v1.0: Interactive file creation for SITES (ArcView extension)*. Natural Resource Ecology Lab, Colorado State University. 14 March.
- 2000 Theobald, D.M. Letter to Commissioner Don Ament, Colorado Department of Agriculture. 25 October.
- Weiler, S. and D.M. Theobald. Pioneers of rural sprawl (presentation). *Regional Science Association*.
- Theobald, D.M. and N.T. Hobbs. 2000. *A comparison of databases for modeling rural land use change* (extended abstract). Proceedings of the 4th International Conference on Integrating GIS and Environmental Modeling: Problems, Prospects and Research Needs. Banff, Alberta, Canada. September 2-8. (<http://www.colorado.edu/research/cires/banff/upload/45/>).
- Hobbs, N.T., D. Ojima, J. Loomis, S. Weiler, D.M. Theobald, A.P. Covich, H. Galbraith, J.S. Baron, T.J. Stohlgren, and M.B. Coughenour. 2000. *An integrated assessment of the effects of climate change on Rocky Mountain National Park and its gateway community: Summary report of the preliminary assessment and initial stakeholder meeting*. Unpublished report, Natural Resource Ecology Lab, Colorado State University.
- Theobald, D.M. 2000. *Description of a build-out analysis and potential effects on wildlife habitat in the Lower Blue Planning Basin, Summit County, Colorado*. 9 June. 14 pgs. (<http://www.ndis.nrel.colostate.edu/davet/pubs/build-out.htm>).
- Theobald, D.M. 2000. *Developing conservation priorities for Lower Gunnison riparian areas using multi-criteria evaluation*. Report for the Delta Soil Conservation District, Colorado. 10 May. 10 pgs.
- Theobald, D.M. 2000. *Proposed Fragmentation Indicator for Principle ER-4 (Wildlife Habitat Protection) for the Larimer County Master Plan, Monitoring and Evaluation Report*. 7 June. 2 pgs. (<http://ndis.nrel.colostate.edu/davet/pubs/frag-indicator.htm>).
- Theobald, D.M. 2000. *Colorado State Forest Service Forest Ag Assessment Pilot Project*. Final report to Colorado State Forest Service. 21 April.
- 1999 Theobald, D.M., G. Wockner, and N.T. Hobbs. 1999. *The Colorado Land Stewardship Mapping Project: Methodology and recommendations from a prototype of Larimer County*. Final report to Great Outdoors Colorado Trust Fund. 35 pgs. (<http://ndis.nrel.colostate.edu/davet/clsm/cover.htm>)
- Theobald, D.M. 1999. AVPrimed! Extension for ArcView. ESRI ArcScripts. November 13. (<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=-1214067607>).
- Riebsame, W., T. Dickinson, D.M. Theobald. 1999. Land use and economic change in the South Platte basin: Some human dimensions of the Western Water Assessment. NOAA Science Advisory Board meeting. Boulder, CO. http://sciencepolicy.colorado.edu/wwa/archives/posters/cires1099/landuse_poster1099.pdf
- Theobald, D.M. 1999. *Trends and patterns of agricultural land loss in Mesa County, Colorado*. Final report for the American Farmland Trust, Rocky Mountain Field Office. September 4.
- Theobald, D.M., C.S. Johnson, J.A. Zack, T. Bearly, and N.T. Hobbs. 1999. *Tangled in the web: Procedures for managing web-based projects*. Proceedings of the ESRI Users Conference, San Diego, CA. July 28. (<http://gis.esri.com/library/userconf/proc99/proceed/papers/pap681/P681.HTM>)

- Theobald, D.M. and N.T. Hobbs. 1999. *Calculating landscape fragmentation using a gradient-based approach*. Proceedings of the ESRI Users Conference, San Diego, CA. July 28. (<http://gis.esri.com/library/userconf/proc99/proceed/papers/pap141/p141.htm>).
- Theobald, D.M. 1999. *Mooovement calculator v1.0*. Unpublished Avenue program. Natural Resource Ecology Lab, Colorado State University. April.
- 1998 Theobald, D.M. 1998. *A visual programming environment for spatial modeling: The ArcView Spatial Modeler extension*. Proceedings of the ESRI User Conference '98, San Diego, CA. (<http://gis.esri.com/library/userconf/proc98/PROCEED/TO150/PAP101/P101.HTM>)
- Bearly, T., D.M. Theobald, N.T. Hobbs, and J.A. Zack. 1998. *Disseminating natural diversity information using ArcView IMS: Design issues and technical considerations*. Proceedings of the ESRI User Conference '98. (<http://gis.esri.com/library/userconf/proc98/PROCEED/TO200/PAP184/P184.HTM>)
- Hobbs, N.T. and D.M. Theobald. 1998. *Effects of Population Growth on Wildlife Habitat in Colorado*. Briefing Paper, Colorado Division of Wildlife.
- 1997 Hobbs, N.T. and D.M. Theobald. 1997. *Description of Important Wildlife Habitat Map*. Larimer County, Colorado, Master Plan.
- Hobbs, N.T., D.M. Theobald, J.A. Zack, T.L. Bearly, W.E. Riebsame, and T. Shenk. 1997. *Forecasting Impacts of Land Use Change on Wildlife Habitat: Collaborative Development of an Interactive GIS for Conservation Planning*. Natural Resource Ecology Laboratory, Colorado State University. (<http://ndis.nrel.colostate.edu/scop/SCoPwww.html>)
- Bearly, T., N.T. Hobbs, D.M. Theobald, T. Shenk, J. Zack. 1997. *User's Manual (v1.0b): SCoP: System for Conservation Planning - Summit County*. Natural Resource Ecology Laboratory, Colorado State University.
- 1994 Supra, J.R., Jr., S.H. Huntsman, D.M. Theobald, and J.O. Bennett. 1994. *A Modeling Approach To Quantitative Literacy*. Proceedings of the Seventh Annual International Conference on Technology in Collegiate Mathematics. Orlando, FL, November 18-21, 1994.
- Supra, J.H., Jr., S.H. Huntsman, and D.M. Theobald. 1994. *A Modeling Approach to Quantitative Literacy*. 245 p.
- 1993 Bennett, J.O., J.R. Supra, Jr., C.A. Morrow, S.H. Huntsman, and D.M. Theobald. 1993. *Quantitative Literacy: An Alternative Course in College Mathematics*. Proceedings of the Sixth Annual International Conference on Technology in Collegiate Mathematics, Parsippany, NJ.
- 1992 Theobald, D.M. 1992. *Designing GIS User Interfaces to Support Environmental Learning*. Research Initiative 13: Report on the Specialist Meeting - User Interfaces for Geographic Information Systems, Mark, D.M. and Frank, A.U., eds., NCGIA Technical Report 92-3. pp. 161-163.
- 1991 Edwards, J.B. and D.M. Theobald. 1991. *CD-ROM Acceptance Increasing for Global Change Models*. GIS World 4(9): 85-86.
- Fulp, T., D.M. Theobald, B. Williams, and B. Vickers. 1991. *Decision Support of Colorado River Operations*. *Proceedings of WaterPower '91*. Denver, CO. July 1991.

- 1990 Theobald, D.M. and M.F. Goodchild. 1990. *Artifacts of TIN-based Surface Flow Modeling*. Proceedings of GIS/LIS '90, Anaheim, CA.
- 1989 Davis, F., D.M. Theobald, R. Harrington, and A. Parikh. 1989. *Part 2: Technical Report on Hydrology and Water Quality of West and Storke Campus Wetlands: A Report to the California Coastal Conservancy and UCSB Campus Wetlands Committee*.

HONORS AND AWARDS

- 2008 US Department of Agriculture *Secretary's Honor Award* for the National Forests on the Edge Study (with S. Stein and others)
- US Department of Agriculture *Certificate of Appreciation* for the National Forests on the Edge Study
- 2007 Inclusion of WUI expansion paper (Theobald & Romme 2007) in Competitive Edge (e-newsletter from President Penley's Office, Colorado State University, December).
- 2006 US Department of Transportation, Federal Highway Administration's *Exemplary Ecosystem Initiatives Award* for the Linking Colorado's Landscapes projects (with J. Kintsch and others)
- 2005 *Most publications*, Natural Resource Ecology Lab, Colorado State University
- 2nd place for the *John I. Davidson Award for Practical Papers*, ASPRS; and 3rd place for the Leica Geosystems Award for Best Scientific Paper in Remote Sensing for Cova et al. paper: Exurban change detection in fire-prone areas with nighttime satellite imagery. *Photogrammetric Engineering & Remote Sensing* 70(11):1249-1257.
- 2004 Faculty International Contribution 2003-04 from Office of International Programs, CSU
- 2003 Report selected for the "Best of Gap" publications (Theobald et al. 2001):
http://www.gap.uidaho.edu/Literature/BestofGap/best_of_gap1.htm
- 2002 *Nominated for Biodiversity Leadership Award*, Bay and Paul Foundations
- 2001 *Exceptional Service Award*, Graduate Discovery Internship Program of the College of Agricultural Sciences, Colorado State University
- 2000 The Nature Conservancy's *David H. Smith Fellowship* in Conservation Research
- 2000 ESRI's User Conference 2000, Avenue Applications 3rd place for *AVPrimed!*
- 1997 *Outstanding Post-Doctoral Fellow*, Natural Resources Ecology Laboratory, Colorado State University

PROFESSIONAL ACTIVITIES

Courses

- 2009 Spring (sabbatical)
- 2008 Fall (sabbatical)
- (9-month tenure-track appointment, 1 course buy-out)
- 2008 Spring NR580 Advanced spatial analysis of social data
- 2007 Fall NR380 Spatial analysis of social data

2006 Fall EY620 Applications to Landscape Ecology (w/Noon)
 (4.5 month tenure-track appointment)

2005 Fall NR420 Ecosystem Management (w/Knight)
 RR441 Spatial analysis of protected areas

2004 Fall NR420 Ecosystem Management (w/Knight)
 EY620 Applications in Landscape Ecology (w/Noon)

2003 Fall NR420 Ecosystem Management (w/Knight)
 RR442 Tourism Planning (Donnelly, GIS component by Theobald)
 LA361 Digital Methods (Hellmund, GIS component by Theobald)

2003 Spring RR480 Spatial Analysis of Protected Areas
 (4.5 month appointment)

2002 Fall NR420 Ecosystem Management (w/ Knight)

2002 Spring RR480 Spatial Analysis of Protected Areas
 (Volunteer teaching)

2001 Fall NR580 Applications in Landscape Ecology (w/ Noon)

1998 Spring NR592/EY592 Issues in GIS (w/Laituri)

1997 Spring EY592 Land Use Change: Human-Ecosys. Interactions (w/Ojima, Galvin)

1993-1994 Instructor, Department of Geography, University of Colorado, Boulder
Maps and Mapping, Summer 1993, Spring 1994, and Summer 1994

Short-courses

2006 Introduction to GIS (short course) for PRIMES, May 15, 2006

2004 Introduction to ArcGIS (short course) for PRIMES/GDPE, January 14-15, 2004

2003 Introduction to ArcGIS (short course), January 14-15, 2003

2000 Advanced ArcView (short course), January 13-14, 2000
Introduction to ArcView (short course), January 10-11, 2000
Colorado State Forest's Introduction to ArcView (short course), January 5-7, 2000

1999 Advanced ArcView (short course), May 20-21, 1999
Introduction to ArcView (short course), May 17-18, 1999
Advanced ArcView (short course), January 14-15, 1999
Introduction to ArcView (short course), January 10-11, 1999
Introduction to ArcView (short course), January 7-8, 1999

1998 Introduction to ArcView (short course), May, 1998

SERVICE

Guest Lectures

- 2007 RR605 Fall 2007 (28 November).
NR440 Land use planning, Fall 2007 (29 November). GIS in land use planning.
NR420 Ecosystem management, Spring 2007 (26 February). Conservation planning and GIS in Ecosystem management.
- 2006 NR420 Ecosystem management, Spring 2006 (15 and 17 February). Conservation planning and GIS in Ecosystem management.
- 2005 NR505 Concepts in GIS, Fall 2005 (9 November). Landscape connectivity modeling with landscape networks.
NR440 Land use planning, Fall 2005 (29 November). GIS in land use planning.
NR420 Ecosystem management, Spring 2005 (9 February). GIS and scenario-based planning.
- 2004 Natural Resource Management (Denver University), Spring 2004 (6 May). Land use planning and landscape connectivity.
NR580 Fundamental Landscape Ecology, Spring 2004 (21 April). Land use planning and landscape connectivity.
- 2003 NR442 Land Use Planning, Fall 2003 (16 Oct). Spatial data in land use planning.
NR322 Intro to GIS, Fall 2003 (6 Oct). Mapping and modeling wildland-urban interface.
RR231 Parks and Protected Areas, Fall 2003 (12 Sept). Conservation biology in PPAs.
Integrated Range Management, Spring 2003 (2 May). GIS in range management.
NR322 Intro to GIS, Spring 2003. Mapping and modeling wildland-urban interface.
NR793 GIS Seminar, Spring 2003 (24 February). Topology revisited.
- 2002 EY592, Fall 2002 (22 Oct). Land cover data in landscape modeling.
NR493/793 GIS Seminar, Spring 2002 (28 Jan). Refining vulnerability using land use.
- 2001 NR420 Ecosystem Management, Fall 2001 (28 Sept). Fragmentation and corridors.
LA380 Ecology of Landscapes, Spring 2001 (19 March). Landscapes and GIS.
- 2000 LA380 Ecology of Landscapes, Spring 2000 (18 Apr). Landscapes and GIS.
NR422 GIS Applications, Spring 2000 (18 Apr). Customizing ArcView.
- 1999 Conservation Planning, Fall 1999 (28 September). EPO Biology (Univ. of Colorado).
LA380 Ecology of Landscapes, Spring 1999 (20 Apr). Landscapes and GIS.
NR440 Land Use Planning, Spring 1999 (8 February). Natural Diversity Information.
- 1998 FW371 Wildlife Mgmt. Tech., Fall 1998 (8 December). Assessing imperiled habitat.
- 1998 NR505 GIS, Fall 1998 (14 & 21 October). Avenue programming.
GIS and Planning, Fall 1998 (6 October). College of Environmental Design (Univ. of Colorado).

- BZ526 Landscape Ecology, Fall 1998 (1 September). Land Use Change.
- 1997 NR505 Concepts in GIS, Fall 1997 (29 October). GIS programming.
- ER101 Introduction to Geography, Spring 1997 (7 February). The New West.
- 1996 NR505 Concepts in GIS, Fall 1996 (October 16). Conservation planning in a GIS.
- WB101 Wildlife Techniques, Fall 1996. SCoP GIS.

Student Committees (advisor)

- Ongoing* Robert Alonso (Crooks), PhD, FWCB, Colorado State University
- Justin Buteris (Bond), Department of Agricultural and Resource Economics, CSU
- Reesa Conroy (Antolin), PhD, Biology, Colorado State University
- Amanda Hardy (Crooks), PhD, FWCB, Colorado State University
- Kelly Larkin (Winkleman), Fisheries, Wildlife, and Conservation Biology, CSU
- Ian Leinwand (Theobald/Knight), GDPE, Colorado State University
- Sam Litschert (Theobald), Post-doc, Colorado State University
- Stacy Lynn (Swift), *Assessment of pastoral-wildlife-agricultural interface in the Tarangire-Manyara Ecosystem, Tanzania*, Ph.D. GDPE, Colorado State University
- Christian Hampson, *Probabilities in Random Graphs*, Math, Colorado State University
- DeAna Naseth (Peters), PhD, GDPE, Colorado State University
- Dave Pettebone (Newman), PhD, Human Dimensions of Natural Resources, Colorado State University
- Ruth Parker (Laituri), MS, Colorado State University
- Jessica Resnick (Andelt), Colorado State University
- Jessica Salo (Theobald), GDPE, Colorado State University
- Paola Vera (ECOSUR/Theobald), MS, Colorado State University/ECOSUR
- 2008 Diane Abendroth (Kalkahn), Stewardship, Colorado State University
- Mark Delorey (Briedt), Department of Statistics, Colorado State University
- Taral Hull (Bright), Dept. of Human Dimensions, Colorado State University
- Carlos Hugo Rocha (Wallace), PhD, Colorado State University
- Shelley Street (Laituri), MS, Colorado State University
- 2007 Todd Kennaway (Lefsky), Forest, Range, Watershed Stewardship, CSU
- Mark Drummond (Laituri), Earth Resources, Colorado State University
- Joshua French (Urquhart), Statistics, Colorado State University
- Seth Magle (Crooks), Fishery and Wildlife Biology, Colorado State University
- Julia McCarthy (Poff), Department of Biology, Colorado State University
- Angie Moline (Poff), Department of Biology, Colorado State University

- 2006 Sharon Baruch-Mordo (Wilson), Fishery, Wildlife, and Conservation Biology, CSU
 Brett Dickson (Noon), GDPE, Colorado State University
 Jackie Grant (Theobald), Post-doctoral fellow, NREL, Landscape genetics
 Dave Pettebone (Newman), MS, NRRT, Colorado State University
 Heather Tipton (Doherty), Fishery and Wildlife Biology, Colorado State University
 Jeff Tracey (Crooks), Fishery and Wildlife Biology, Colorado State University
- 2005 Brad Eckert (Aukerman), *Using GIS to identify ROS Inconsistencies*, M.S. Department of Natural Resources, Recreation & Tourism, Colorado State University.
 Buffy Lenth (aka Hastings) (Knight), M.S. Department of Fishery & Wildlife Biology, CSU
 Pamela Kaval (Loomis), *Analysis of Public Perspectives of Wild and Prescribed Fires in Colorado*. PhD., GDPE, Colorado State University
 Nathan Korb (Romme), M.S. Department of Forest, Rangeland, and Watershed Stewardship, CSU
 Melissa Miller (Hobbs), MS, GDPE, Colorado State University
 Lee O'Brien (Theobald w/Wiens), *Depicting uncertainty in wildlife habitat suitability models using Bayesian inference and expert opinion*, GDPE, Colorado State University
 Erin Peterson (Theobald w/Laituri), PhD, Geosciences, Colorado State University
 Kerri Poore (Wallace), *Building bridges*. M.A. Department of Natural Resource Recreation and Tourism, Colorado State University.
 Shimomura, Michele, MA, Business, Colorado State University
- 2004 Rud Platt (Veblen), PhD, Geography, University of Colorado
- 2003 Jess Behrens (Moore), M.S. Application of an integrated, global, GIS/Microsoft Access based disease ecology mapping and analytical database to the analysis of aedes aegypti abundance and distribution. Department of Bioagricultural Sciences and Pest Management.
 David Bower (Knight), Undergraduate Honors Thesis, Fishery and Wildlife Biology, CSU
 Siobhan Everson-Stewart (Breidt), Statistics, Colorado State University
 Alicia Johnson (Breidt), Statistics, Colorado State University
 Jen Valiulis (Wiens), M.S. Department of Biology, Colorado State University
- 2001 Jeff Rulli (Wallace), *GIS mapping for building bridges*. M.A. Department of Natural Resource Recreation and Tourism, Colorado State University.
 Susie Geer (Dean), M.S. Department of Forest Sciences, Colorado State University.
- 2001 Kevin Petrik (Buttenfield), *Internet-based Geographic Information Services in College Classrooms*, M.A. Department of Geography, University of Colorado, Boulder.
- 1999 Sonya Le Febre (Woodmansee), *Creating a management assessment for residual land*. M.S. Department of Rangeland Ecosystem Science, Colorado State University.

Professional and Community Service

- 2007 – 2008 National Science Foundation Geography & Regional Science Doctoral Dissertation Improvement panel member
- 2008 - Land Use Working Group of the Western Governors' Association Wildlife Corridors Initiative
- Expert reviewer on EPA's Report on the Environment, Land chapter, Washington, D.C. January 14th.
- Advisor, Environmental Law Institute's Conservation Threshold Committee
- 2007 - 2008 State GIS Coordinating Council (Colorado)
- 2007 - City of Fort Collins' Land Conservation and Stewardship Board
- 2006 - Editorial Board, Journal of Conservation Planning
- 2006 - 2008 Science Advisory Council member, Southern Rockies Ecosystem Project
- Ad-hoc assigning editor, *Conservation Biology*
- 2006 Steering committee member for the *Biodiversity Conservation in Dynamic Landscapes Network* (S. Andelman lead), National Science Foundation Research Coordination Network.
- 2005 - 2007 Expert review panel for connectivity mapping of lynx in Utah, Wild Utah Project
- 2005 Expert review panel of monitoring proposals for Clark County Multi-Species Habitat Conservation Plan, Las Vegas, NV. March 14 & 15th.
- Wildlife on the Move component of Fast Forward Fridays, Dunn Elementary School, Fort Collins, CO. January 14, 28, and Feb 11th.
- 2003 - 2005 Executive and Technical Committee, *Linking Colorado's Landscape and Beyond* project
- 2003 Career Forum panel, International Association of Landscape Ecologists, Banff, Canada
- 2002- 2003 Hayman Fire Science Review Team, USDA National Forest Service
- 2002 US-International Association for Landscape Ecology Symposium planning committee
- 2001- 2005 Editorial board for Journal of Conservation GIS
- 2001 Ecological Society of America Career Workshop
- 2000 Colorado Open Land's Colorado Conservation GIS Committee
- 1999-2000 Larimer County Master Plan Monitoring and Evaluation Project
- 1998-2000 Poudre School District's Spatial Information Technologies and Geographic Education Partnership project
- 1998-2000 Advisor to EPA's State of the Southern Rockies Ecosystem Report

University Service

- 2008 Search committee for Department of Fisheries, Wildlife, and Conservation Biology
- 2006 - 8 Council of Faculty Governance committee
- 2006 "Interactive mapping of Colorado" for the Information Science and Technology high school visit day, CSU. 3 November.

- 2005 “Interactive mapping of Colorado” for the Information Science and Technology high school visit day, CSU. 5 November.
- 2003 Center for Information Science and Technology Education Committee, CSU
- 2002 Announcer, College of Natural Resources Fall 2002 graduation ceremony
- 2001 Vice President for Research and Information Technology Task Force on Colleges of Agriculture and Natural Resources
- 2000-2001 Dean’s Geomatics/Biometrics Working Group, Colorado State University College of Natural Resources
- 2000-7 Campus representative for ESRI (GIS software) technical help
- 1999-2001 Colorado State University, committee for Graduate Degree Program in Geospatial Science
CSU GIS Open House/GIS Day (organizer)
- 1999-2000 Cooperative Extension County Information Service Office, Colorado State University
- 1998 GISFORUM, a cross-campus technical GIS discussion group
- 1996 Colorado State University, College of Natural Resources Career Forum
- 1993-1994 Graduate Student Committee Representative. Department of Geography, University of Colorado, Boulder

Natural Resource Ecology Lab Service

- 2002-2007 Executive Committee
- 2002 Fall Seminar Series co-coordinator

Department of Human Dimensions Service

- 2007 Ecosystem services position committee
- 2006 – Commencement committee
- 2005 – Tenure & Promotion committee
- 2002 Review of Geospatial Science curriculum
Parks and Protected Area search committee

GIS databases and tools used by international community

Colorado Ownership, Management, and Protection database – a map-based inventory of open space lands in Colorado. A key spatial database for most natural resource applications in Colorado.

COMaP v4 – January – August 2006: 15 downloads

COMaP v5 – August – March 2007: 104 downloads

COMaP v6 – March 2007 – December 2007: 108 downloads

COMaP v7 – September 2008 – October 2008: ~100 downloads

Functional Linkage of Watersheds and Streams (FLoWs): Network-based ArcGIS tools to analyze freshwater ecosystems.

12 downloads in 2006

Selected November 2007 to be included in the Ecosystem-Based Management Tools Network (www.ebmtools.org)

Functional Connectivity (FunConn): ArcGIS tools for Functional Connectivity Modeling.

100 downloads in 2006

Selected November 2007 to be included in the Ecosystem-Based Management Tools Network (www.ebmtools.org)

Reviews

Articles for: *Agriculture, Ecosystems & Environment*; *Annals of the Association of American Geographers*; *Biological Conservation*; *BioScience*; *Cartography and Geographic Information Science* (3); *Conservation Biology* (5); *Conservation Ecology* (3); *Ecography*; *Ecological Applications* (4); *Ecological Complexity*; *Ecology & Society* (2); *Environmental Monitoring and Assessment*; *Environmental Management* (3); *Forest Ecology and Management*; *Frontiers in Ecology and Environment*; *Geoforum*; *Geographical & Environmental Modeling*; *Geographical Review*; *Human Dimensions of Wildlife* (2); *International Journal of Applied Earth Observation and Geoinformation*; *International Journal of Geographic Information Science* (2); *International Journal of Wildland Fire*; *Journal of Applied Ecology*; *Journal of Conservation Planning* (2); *Journal of Environmental Management* (2); *Journal of Hydrologic Engineering*; *Journal of Leisure Research*; *Journal of Mountain Science*; *Landscape and Urban Planning* (4); *Landscape Ecology* (7); *Northeast Naturalist*; *Photogrammetric Engineering & Remote Sensing* (2); *Planning Practice & Research*; *Society & Natural Resources* (2); *The Review of Regional Studies* (2); *Transactions in GIS*; *Urban Ecosystems*.

Central Shortgrass Prairie Ecoregional Assessment and Partnership Initiative, The Nature Conservancy of Colorado; *Biodiversity Assessment for the Western Corn Belt Ecoregion*, USDA National Agroforestry Center, Lincoln, NE, 2001; Intergovernmental Panel on Climate Change Report: *The Regional Impacts of Climate Change: An Assessment of Vulnerability*, 1997.

Various book chapters (5), including: *Chapter for the Proceedings of the North American Land Summit*, 2007.

AFFILIATIONS

2000-2002 Ecological Society of America

2000 - Society for Conservation Biology

1997-1998 American Planning Association

1997-1998 Society for Conservation GIS

1997-1999 Adjunct Professor, Department of Earth Resources, Colorado State University

1994- US-International Association for Landscape Ecology

1994 Visiting Scientist, Rocky Mountain Biological Laboratory, Crested Butte, Colorado

1989-1999 Association of American Geographers