

Denis White ~ Publications

PEER-REVIEWED JOURNAL ARTICLES:

(Some PDF files are provided with permission of the [American Congress on Surveying and Mapping](#) and [Taylor and Francis](#) [both links ])

Lawler JJ, Shafer SL, White D, Kareiva P, Maurer EP, Blaustein AR, Bartlein PJ. 2009. Projected climate-induced faunal change in the western hemisphere. *Ecology* 90(3):.

Lawler JJ, White D. 2008. Assessing the mechanisms behind successful surrogates for biodiversity in conservation planning. *Animal Conservation* 11(4):270-280.

Nelson E, Polasky S, Lewis DJ, Plantinga AJ, Lonsdorf E, White D, Bael D, Lawler JJ. 2008. Efficiency of incentives to jointly increase carbon sequestration and species conservation on a landscape. *Proceedings of the National Academy of Sciences* 105(27):9471-9476.

Polasky S, Nelson E, Camm J, Csuti B, Fackler P, Lonsdorf E, Montgomery C, White D, Arthur J, Garber-Yonts B, Haight R, Kagan J, Starfield A, Tobalske C. 2008. Where to put things? Spatial land management to sustain biodiversity and economic returns. *Biological Conservation* 141(6):1505-1524.

Gregory MJ, Kimerling AJ, White D, Sahr K. 2008. A comparison of intercell metrics on discrete global grid systems. *Computers, Environment and Urban Systems* 32(3):188-203.

White D, Kiester AR. 2008. Topology matters: network topology affects outcomes from community ecology neutral models. *Computers, Environment and Urban Systems* 32(2):165-171; 32(4):327 (erratum). [[PDF](#) 336 KB]

Theobald DM, Stevens DL Jr., White D, Urquhart NS, Olsen A, Norman JB. 2007. Using GIS to generate spatially-balanced random survey designs for natural resource applications. *Environmental Management* 40(1):134-146.

White D. 2006. Display of pixel loss and replication in reprojecting raster data from the sinusoidal projection. *Geocarto International* 21(2):19-22. [[PDF](#) 578 KB]

Lawler JJ, White D, Neilson RP, Blaustein AR. 2006. Predicting climate-induced range shifts: model differences and model reliability. *Global Change Biology* 12:1568-1584.

Culver DC, Deharveng L, Bedos A, Lewis JJ, Madden M, Reddell JR, Sket B, Trontelj P, White D. 2006. The mid-latitude biodiversity ridge in terrestrial cave fauna. *Ecography* 29:120-128.

Santelmann M, Freemark K, Sifneos J, White D. 2006. Assessing effects of alternative agricultural practices on wildlife habitat in Iowa, U.S.A. *Agriculture, Ecosystems & Environment* 113:243-253.

Freemark KE, Meyers M, White D, Warman LD, Kiester AR, Lumban-Tobing P. 2006. Species richness and biodiversity conservation priorities in British Columbia. *Canadian Journal of Zoology* 84(1):20-31.

Wigington PJ Jr, Ebersole JL, Colvin ME, Miller B, Hansen B, Lavigne H, White D, Baker JP, Church MR, Leibowitz SG, Brooks JR, Cairns MA, and Compton JE. 2006. Coho salmon dependence on intermittent streams. *Frontiers in Ecology and Environment* 4(10):514-519.

Christman MC, Culver DC, Madden M, White D. 2005. Patterns of endemism of the eastern North American cave fauna. *Journal of Biogeography* 32(8):1441-1452.

Carr DB, White D, MacEachren AM. 2005. Conditioned choropleth maps and hypothesis generation. *Annals of the Association of American Geographers* 95(1):32-53.

Santelmann MV, White D, Freemark K, Nassauer JI, Eilers JM, Vache KB, Danielson BJ, Corry RC, Clark ME, Polasky S, Cruse RM, Sifneos J, Rustigian H, Coiner C, Wu J, Debinski D. 2004. Assessing alternative futures for agriculture in Iowa, USA. *Landscape Ecology* 19(4):357-374.

Lawler JJ, O'Connor RJ, Hunsaker CT, Jones KB, Loveland TR, White D. 2004. The effects of habitat resolution on models of avian diversity and distributions: a comparison of two land-cover classifications. *Landscape Ecology* 19(5):515-530.

Warman LD, Forsyth DM, Sinclair ARE, Freemark K, Moore HD, Barrett TW, Pressey RL, White D. 2004. Species distributions, surrogacy, and important conservation regions in Canada. *Ecology Letters* 7(5):374-379.

Jackson LE, Bird SL, Matheny RW, O'Neill RV, White D, Boesch KC, Koviach JL. 2004. A regional approach to projecting land-use change and resulting ecological vulnerability. *Environmental Monitoring and Assessment* 94(1-3):231-248.

Cao Y, Larsen DP, White D. 2004. Estimating regional species richness using a limited number of survey units. *Ecoscience* 11(1):23-35.

Baker JP, Hulse DW, Gregory SV, White D, Van Sickle J, Berger PA, Dole D, Schumaker NH. 2004. Alternative futures for the Willamette River Basin, Oregon. *Ecological Applications* 14(2):313-324.

Schumaker NH, Ernst T, White D, Baker J, Haggerty P. 2004. Projecting wildlife responses to alternative future landscapes in Oregon's Willamette Basin. *Ecological Applications* 14(2):381-400.

White D, Sifneos JC. 2003. Regression tree cartography. *Journal of Computational and Graphical Statistics* 11(3):600-614. [[PDF](#) 700 KB]

- Lawler JJ, White D, Master LL. 2003. Integrating representation and vulnerability: two approaches for prioritizing areas for conservation. *Ecological Applications* 13(6):1762-1772. Erratum 14(2):635-635.
- Lawler JJ, White D, Sifneos JC, Master LL. 2003. Rare species and the use of indicator groups for conservation planning. *Conservation Biology* 17(3):875-882.
- Sahr K, White D, Kimerling AJ. 2003. Geodesic discrete global grid systems. *Cartography and Geographic Information Science* 30(2):121-134.
- Shirazi MA, Burch Johnson C, Omernik JM, White D, Haggerty PK, Griffith GE. 2003. Quantitative soil descriptions for ecoregions of the United States. *Journal of Environmental Quality* 32:550-561.
- White D. 2000. Global grids from recursive diamond subdivisions of the surface of an octahedron or icosahedron. *Environmental Monitoring and Assessment* 64(1):93-103. [[PDF](#) 428 KB]
- Hulse D, Eilers J, Freemark K, Hummon C, White D. 2000. Planning alternative future landscapes in Oregon: evaluating effects on water quality and biodiversity. *Landscape Journal* 19(2):1-19.
- Polasky S, Camm JD, Solow AR, Csuti B, White D, Ding R. 2000. Choosing reserve networks with incomplete species information. *Biological Conservation* 94(1):1-10.
- Kimerling AJ, Sahr K, White D, Song L. 1999. Comparing geometrical properties of discrete global grids. *Cartography and Geographic Information Science* 26(4):271-287.
- Montgomery CA, Pollak RA, Freemark KE, White D. 1999. Pricing biodiversity. *Journal of Environmental Economics and Management* 38:1-19.
- Rathert D, White D, Sifneos J, Hughes RM. 1999. Environmental associations of species richness in Oregon freshwater fishes. *Journal of Biogeography* 26(2):257-273. [[PDF](#) 1.3 MB]
- White D, Kimerling AJ, Sahr K, Song L. 1998. Comparing area and shape distortion on polyhedral-based recursive partitions of the sphere. *International Journal of Geographical Information Science* 12(8):805-827. [[PDF](#) 1.8 MB]
- White D, Minotti PG, Barczak MJ, Sifneos JC, Freemark KE, Santelmann MV, Steinitz CF, Kiester AR, Preston EM. 1997. Assessing risks to biodiversity from future landscape change. *Conservation Biology* 11(2):349-360. [[PDF](#) 542 KB]
- O'Connor RJ, Jones MT, White D, Hunsaker C, Loveland T, Jones B, Preston E. 1996. Spatial partitioning of environmental correlates of avian biodiversity in the conterminous United States. *Biodiversity Letters* 3(4):97-110.
- Kiester AR, Scott JM, Csuti B, Noss R, Butterfield B, Sahr K, White D. 1996. Conservation prioritization using GAP data. *Conservation Biology* 10(5):1332-1342.

Kimerling AJ, Overton WS, White D. 1995. Statistical comparison of map projection distortions within irregular areas. *Cartography and Geographic Information Systems* 22(3):205-221. [[PDF](#) 1.2 MB]

Phillips DL, White D, Johnson CB. 1993. Implications of climate change scenarios for soil erosion potential in the USA. *Land Degradation and Rehabilitation* 4:61-72.

Carr DB, Olsen AR, White D. 1992. Variations of hexagon mosaic maps for display of univariate and bivariate geographical data. *Cartography and Geographic Information Systems* 19(3):228-236.

White D, Kimerling AJ, Overton WS. 1992. Cartographic and geometric components of a global sampling design for environmental monitoring. *Cartography and Geographic Information Systems* 19(1):5-22. [[PDF](#) 1.5 MB]

Clarke SE, White D, Schaedel AL. 1991. Oregon, USA, ecological regions and subregions for water quality management. *Environmental Management* 15(6):847-856.

White D. 1985. Relief modulated thematic mapping by computer. *The American Cartographer* 12(1):62-68.

White D. 1984. Computer peripherals for mapping. US National Report to the International Cartographic Association, 1984, J Olson, ed., (special issue of *The American Cartographer*), pp 56-58.

Reasenber RD, Shapiro II, White D. 1975. The gravity field of Mars. *Geophysical Research Letters* 2(3):89-92.

PEER-REVIEWED BOOK CHAPTERS:

Liu Y, Mahmoud M, Hartmann H, Stewart S, Wagener T, Semmens D, Stewart R, Gupta H, Dominguez D, Hulse D, Letcher R, Rashleigh B, Smith C, Street R, Ticehurst J, Twery M, van Delden H, Waldick R, White D, Winter L. 2008. Formal scenario development for environmental impact assessment studies. *State of the Art and Futures in Environmental Modelling and Software*. Jakeman A, Voinov A, Rizzoli AE, and Chen S, editors. IDEA Book Series. Elsevier.

Freemark Lindsay K, Santelmann MV, Sifneos JC, White D, Kirk DA. 2007. Wildlife habitat. *From the corn belt to the Gulf: societal and environmental implications of alternative agricultural futures*. Nassauer JI, Santelmann MV, Scavia D, editors. Washington DC: Resources for the Future. pp. 147-160.

Santelmann MV, Sifneos JC, White D, Freemark Lindsay K. 2007. Plant diversity. *From the corn belt to the Gulf: societal and environmental implications of alternative agricultural futures*. Nassauer JI, Santelmann MV, Scavia D, editors. Washington DC: Resources for the Future. pp. 91-101.


Debinski DM, Santelmann MV, White D, Freemark Lindsay K, Sifneos JC. 2007. Butterfly

responses. *From the corn belt to the Gulf: societal and environmental implications of alternative agricultural futures*. Nassauer JI, Santelmann MV, Scavia D, editors. Washington DC: Resources for the Future. pp. 102-107.

Clark ME, Danielson BJ, Santelmann MV, Nassauer JI, White D, Freemark Lindsay K. 2007. Impacts on mammal communities: a spatially explicit model. *From the corn belt to the Gulf: societal and environmental implications of alternative agricultural futures*. Nassauer JI, Santelmann MV, Scavia D, editors. Washington DC: Resources for the Future. pp. 115-138.

Santelmann M, White D, Lindsay K, Nassauer J, Eilers J, Vache K, Danielson B, Corry R, Clark M, Polasky S, Cruse R, Sifneos J, Rustigian H, Coiner C, Wu J, Debinski D. 2007. An integrated assessment of alternative futures for corn belt agriculture. *From the corn belt to the Gulf: societal and environmental implications of alternative agricultural futures*. Nassauer JI, Santelmann MV, Scavia D, editors. Washington DC: Resources for the Future. pp. 162-174.

White D, Baker J, Terrestrial Wildlife, pp. 46-47; White D, Haggerty P, Baker J, Adamus P, Habitat and Biodiversity, pp. 124-125; Schumaker N, Ernst T, Haggerty P, Baker J, White D, Populations, pp. 126-127. 2002. *Willamette River Basin planning atlas: trajectories of environmental and ecological change*. Hulse D, Gregory S, Baker J, editors. Corvallis, Oregon State University Press. [<http://oregonstate.edu/dept/press/WillRivrBas.html>]

Cablk M, White D, Kiester AR. 2002. Assessment of spatial autocorrelation in empirical models in ecology. *Predicting species occurrences: issues of scale and accuracy*. Scott JM, Heglund PJ, Morrison ML, Haufler JB, Raphael MG, Wall WA, Samson FB, editors. Washington DC: Island Press. pp. 429-440. [[PDF](#) 769 KB 

Hill K, White D, Maupin M, Ryder B, Karr JR, Freemark K, Taylor R, Schauman S. 2002. In expectation of relationships: centering theories around ecological understanding. *Ecology and design: frameworks for learning*. Johnson B, Hill K, editors. Washington DC: Island Press. pp. 271-303.

Santelmann M, Freemark K, White D, Nassauer J, Clark M, Danielson B, Eilers J, Cruse R, Galatowitsch S, Polasky S, Wu J. 2001. Applying ecological principles to land-use decision-making in agricultural watersheds. *Applying ecological principles to land management*. Dale VH, Haeuber R, editors. New York: Springer-Verlag. pp. 226-252.

White D, Preston EM, Freemark KE, Kiester AR. 1999. A hierarchical framework for conserving biodiversity. *Landscape ecological analysis: issues and applications*. Klopatek JM, Gardner RH, editors. New York: Springer-Verlag. pp. 127-153. [[PDF](#) 590 KB]

PUBLISHED BOOK REVIEWS:

White D. 1997. Book review, Hanna S, Folke C, Maeler KG, editors, 1996, *Rights to Nature*, Island Press. *Northwest Science* 71(2):157-158.

White D. 1991. Book review, Kuechler AW, Zonneveld IS, 1988, *Vegetation Mapping*, Handbook of Vegetation Science, Vol. 10, Kluwer Academic Publishers. *Ecology* 72(1):362-

White D. 1987. Book review, Burrough PA, 1986, *Principles of Geographical Information Systems for Land Resources Assessment*, Oxford. *Ecology* 68(6):2064.

PUBLICATIONS IN PROCEEDINGS:

Freemark K, Moore H, Forsyth D, Sinclair A, White D, Barrett T, Pressey R. 2000. Identifying sites for conserving biodiversity across Canadian landscapes using a complementarity approach. Proceedings of the 1st International Symposium on Landscape Futures. Brunckhorst DJ, Mouat DA, editors. University of New England, Armidale, New South Wales, Australia.

Olsen AR, Stevens DL Jr, White D. 1998. Applications of global grids in environmental sampling. Proceedings of the 30th Symposium on the Interface, Computing Science and Statistics 30, pp. 279-284.

Sahr K, White D. 1998. Discrete global grid systems. Proceedings of the 30th Symposium on the Interface, Computing Science and Statistics 30, pp. 269-278.

White D, Sifneos JC. 1997. Mapping multivariate spatial relationships from regression trees by partitions of color visual variables. Proceedings, Auto-Carto 13, American Congress on Surveying and Mapping, pp. 86-95.

Kimerling AJ, Sahr K, White D. 1997. Global scale data model comparison. Proceedings, Auto-Carto 13, American Congress on Surveying and Mapping, pp. 357-366.

Kimerling AJ, White D. 1995. The role of cartography in designing a global sampling framework for environmental monitoring. Proceedings of the 1995 International Cartography Conference, International Cartography Association.

Czaplewski RL, Norton DJ, White D. 1992. United States Environmental Monitoring and Assessment Program: landscape characterization and remote sensing. H G Lund, R Paivinen, and S Thammincha, eds. Proceedings, Wacharakitti International Workshop on Remote Sensing and Permanent Plot Techniques for World Forest Monitoring. International Union of Forestry Research Organizations, pp. 109-117.

White D, Maizel M, Chan K K-L, Corson-Rikert J. 1989. Polygon overlay to support point sample mapping: the National Resources Inventory. Proceedings, Auto-Carto 9, American Congress on Surveying and Mapping, pp. 384-390.

Chan K K-L, White D. 1987. Map algebra: an object oriented implementation. Proceedings, International Geographic Information Systems (IGIS) Symposium: The Research Agenda, Association of American Geographers, Vol. II, pp. 127-150.

White D, Corson-Rikert J, Maizel M. 1987. WYSIWYG map digitizing: real time geometric correction and topological encoding. Proceedings, Auto-Carto 8, American Congress on Surveying and Mapping, pp. 739-743.

White D, Corson-Rikert J. 1987. Building geographic data bases for landscape analysis and planning in national parks. Proceedings, Workshop on Science and Resource Management in Northeast National Parks, US National Park Service, Boston, MA.

Corson-Rikert J, White D. 1986. Comprehensive map input software. Proceedings, Urban and Regional Information Systems Association, 1986 Annual Conference.

Corson-Rikert J, White D. 1986. Building large geographic data bases for planning: Minute Man National Historical Park. Proceedings, American Congress on Surveying and Mapping 1986 Annual Meeting, pp. 142-151.

White D. 1985. A generalized cartographic data processing program. Proceedings, Auto-Carto 7, American Congress on Surveying and Mapping, pp. 560-569.

White D. Interactive color mapping. 1980. Proceedings, Auto-Carto 4, American Congress on Surveying and Mapping, American Society of Photogrammetry, Vol. 1, pp. 272-277.

White D. 1979. Odyssey design structure. Harvard Library of Computer Graphics, 1979 Mapping Collection, Vol. 2, pp. 207-215.

White D. 1978. A design for polygon overlay. Proceedings of the First International Advanced Study Symposium on Topological Data Structures for Geographic Information Systems, G H Dutton, ed., Harvard Papers on Geographic Information Systems, Vol. VI.

MAJOR COMPUTER PROGRAMS:

Stream.net: functions with example data for creating, importing, attributing, analyzing, and displaying stream networks represented as binary trees; a contributed package for the R language (<http://www.r-project.org/>). 2002-2007.

Maptree: functions for mapping and graphing statistical models created by classification trees, regression trees, and hierarchical clustering; a contributed package for the R language (<http://www.r-project.org/>). 2000-2002.

Diamonds: graphic functions to illustrate hierarchical sampling and analysis grids developed on adjacent faces of octahedra or icosahedra; a contributed package for the R language (<http://www.r-project.org/>). 1998-2002.

Roots: interactive map digitizing with real time geometric correction and topological encoding, in Pascal and C. (with Jonathan Corson-Rikert and Kelly K-L Chan) 1985-1988.

Imago Mundi and related programs: filtering and shaded relief display of terrain and overlay data, in FORTRAN with FLECS structured pre-processor. 1982-1984.

Picture: interactive vector graphics construction program with Odyssey-style command line interface, in FORTRAN with FLECS structured pre-processor. 1980-1982.

Harmony: Odyssey-style flat-file GIS data processing with functional transformations of coordinate and attribute data, in FORTRAN with FLECS structured pre-processor. 1979-1982.

Odyssey: multiple component vector-based geographic information system; memory management, polygon topology, and map projection modules; in FORTRAN with FLECS structured pre-processor. (design with Nick Chrisman, programming with Chrisman, James Dougenik, Scott Morehouse, and others) 1975-1980.

PEP module: application of Kalman Filter to Mariner 9 satellite signal-noise filtering, implemented for the Planetary Ephemeris Program, in FORTRAN. (guided by Robert Reasenber, Earth & Plan. Sci., MIT) 1973-1974.

Map projections: normal, polar, and oblique aspects of several common projections, in PL/1. (guided by Professor Clyde Patton, Geography, Univ. of Oregon) 1971.

Resolution theorem prover: Robinson's resolution principle in an interactive theorem proving program, in ALGOL and ASLIP. (with Larry Folts and guided by Professor Larry Travis, Computer Science, Univ. of Wisconsin) 1967-1969.

ASLIP. Weizenbaum's Symmetric List Processor, in ALGOL. (with Larry Folts and guided by Professor Larry Travis, Computer Science, Univ. of Wisconsin) 1967.

GOVERNMENT AND OTHER REPORTS:

Leibowitz SG, White D, Baker JP. 2003. Prototype watershed-stream network modeling approach for Pacific salmon. FY03 Annual Performance Measure. Internal Report. U.S. Environmental Protection Agency, Corvallis, Oregon. 106 pp.

Adamus PR, Baker JP, White D, Santelmann M, Haggerty P. 2001. Terrestrial vertebrate species of the Willamette River Basin: species-habitat relationships matrix. Internal Report. U.S. Environmental Protection Agency, Corvallis, Oregon. (Available at <http://www.orst.edu/dept/pnw-erc>)

Maizel M, White D, Gage S, Osborne L, Root R, Stitt S, Muehlbach G. 1999. Historical interrelationships between population settlement and farmland in the conterminous United States, 1790 to 1992. Perspectives on the land-use history of North America: a context for understanding our changing environment. Sisk TD, editor. US Geological Survey, Biological Resources Division, Biological Science Report USGS/BRD/BSR 1998-0003, 104 pp. (Also see <http://biology.usgs.gov/luhna/chap2.html>)

Hulse D, Goorjian L, Richey D, Flaxman M, Hummon C, White D, Freemark K, Eilers J, Bernert J, Vache K, Kaytes J, Diethelm D. 1997. Possible futures for the Muddy Creek watershed, Benton County, Oregon. Institute for a Sustainable Environment, University of Oregon, Eugene. 90 pp.

Freemark KE, Hummon C, White D, Hulse D. 1996. Modeling risks to biodiversity in past, present, and future landscapes. Technical Report No. 268, Canadian Wildlife Service,

Headquarters, Environment Canada, Ottawa K1A 0H3. 60 pp.

Spence MH, White D. EMAP sampling grid technical report. 1992. ManTech Environmental Technology, Inc., US EPA Environmental Research Laboratory, Corvallis, Oregon 64 pp.

Overton WS, White D, Stevens DL Jr. 1991. Design Report for EMAP: Environmental Monitoring and Assessment Program, EPA/600/3-91/053, 43 pp.

White D. 1985. Geographic information systems on microcomputers. LCGSA Report 85-11, Laboratory for Computer Graphics and Spatial Analysis, Harvard Graduate School of Design.

Corson-Rikert J, White D. 1985. Issues in map digitizing. LCGSA Report 85-18, Laboratory for Computer Graphics and Spatial Analysis, Harvard Graduate School of Design.

Corson-Rikert J, White D. 1985. The TRACE program for map input. LCGSA Report 85-17, Laboratory for Computer Graphics and Spatial Analysis, Harvard Graduate School of Design.

Antone S, White D. 1978. Odyssey topological polygon cycling: the Cyclops program. Program reference manual, Laboratory for Computer Graphics and Spatial Analysis.

Chrisman NR, White D. 1977. Programming for Transportability: A Guide to Machine Independent FORTRAN, Laboratory for Computer Graphics and Spatial Analysis.

Schmidt AH, Chrisman NR, D White D, Dougenik JA. 1976. Year Two Progress Report on NSF Grant MCS 74-14437-A01. Laboratory for Computer Graphics and Spatial Analysis, Harvard Graduate School of Design.

White D, Dougenik JA, Chrisman NR. Polygon overlay. 1976. LCGSA Report 76-12, Laboratory for Computer Graphics and Spatial Analysis, Harvard Graduate School of Design.

White D. Cyclops conventions and assumptions. 1976. LCGSA Report 76-4, Laboratory for Computer Graphics and Spatial Analysis, Harvard Graduate School of Design.

White D, Schmidt AH. 1975. A report on the conversion of twelve urban atlas files to extended-DIME files and their use in the preparation of base-map files for computer mapping. LCGSA Report 75-6, Laboratory for Computer Graphics and Spatial Analysis, Harvard Graduate School of Design.

White D. 1975. The conversion of urban atlas census tract files to DIME and chain file formats. LCGSA Report 75-5, Laboratory for Computer Graphics and Spatial Analysis, Harvard Graduate School of Design.

THESIS:

White D. 1984. The structural analysis of multivariate maps in national atlases. Unpublished M.A. Thesis, Boston University.

INVITED SEMINARS:

Homage to Raymond O'Connor: biodiversity, neutral models, inspiration. 2007. Department of Biology, East Carolina University.

Environmental assessments using alternative futures. 2005. US Environmental Protection Agency Research Laboratory, Duluth, Minnesota.

Alternative futures for biodiversity; using ecologically scaled landscape indices. 2004. Department of Wildlife Ecology, University of Maine.

Global alternative future scenarios. 2003. Environmental Sciences Graduate Program, Oregon State University.

Rich maps, a cartography of place. 2002. Department of Geography, University of Oregon.

Mapping and pruning regression trees. 1998. Department of Statistics, Oregon State University. (with Jean C Sifneos and N Scott Urquhart)

A hierarchical framework for biodiversity. 1998. Department of Geosciences, Oregon State University.

Analysis of ecoregion epistemologies: the idiotic and the pathetic. 1997. Department of Geography, University of Washington.

Continental scale controls on species richness, global sampling networks for environmental monitoring, and impacts of future landscape changes on biodiversity. 1994. Department of Geosciences, Oregon State University.

Statistical comparison of map projection distortions within irregular areas. 1994. Department of Statistics, Oregon State University.

Polygon overlay to support point sample mapping: the National Resources Inventory. 1990. Department of Geography, Portland State University.

Surface tessellations for global data sampling. 1990. Department of Geosciences, Oregon State University. (with A Jon Kimerling)

Spatial data models and spatial analysis methods. 1989. Great Lakes GIS Workshop, Detroit, Michigan. US EPA Great Lakes National Program Office; USGS.

Building geographic databases for landscape analysis and planning. 1988. School of Forestry, University of Montana.

Maps, computers and landscape: building geographic data bases for landscape analysis. 1987. Department of Geography, Central Washington University.

PRESENTATIONS AT MEETINGS:

White D. 2006. Geography at Harvard: the intervening years. Presentation at the Annual

Conference of the Association of Pacific Coast Geographers, Eugene, Oregon.

White D. 2004. Topology matters. Presentation at the 2nd International Conference on Discrete Global Grids, Ashland, Oregon.

White D. 2001. Rich maps. Presentation at annual meeting, North American Cartographic Information Society, Portland, Oregon.

White D. 1999. A multi-scale approach to biodiversity assessment. Presentation at Environmental Monitoring and Assessment Program Symposium, San Francisco, California.

Santelmann M, Freemark K, Polasky S, Danielson B, Cruse R, Eilers J, Galatowitsch S, Nassauer J, White D. 1999. Exploring applications of ecological principles for sustainable land use: design and evaluation of future land use scenarios for Midwest agricultural watersheds. Presentation at annual meeting, Association of American Geographers, Honolulu, Hawaii.

White D. 1997. Four kinds of biodiversity response variables. Presentation at Workshop on Combining Information from Programs that Monitor Ecological and Natural Resources, National Research Center for Statistics and the Environment, University of Washington, Seattle.

Freemark KE, Hummon C, White D, Hulse D. 1997. Assessing risks to biodiversity in past, present, and future landscapes in the mid Willamette Valley, Oregon. Presentation at annual meeting, United States section of International Association of Landscape Ecology, Durham, North Carolina.

Santelmann MV, Freemark KE, White D. 1997. Modeling effects of patch size and interior-edge relationships on habitat loss for forest birds. Presentation at annual meeting, US Regional Association of the International Association for Landscape Ecology, Durham, North Carolina.

White D. 1996. Assessing risks to biodiversity from future landscape change. Presentation at Connections: Transportation, Wetlands, and the Natural Environment, Washington State Department of Transportation, Tacoma, Washington.

White D. 1996. Analysis of ecoregion epistemologies. Presentation at annual meeting, Association of American Geographers, Charlotte, North Carolina.

White D. 1996. Overview of multi-species biodiversity models. Presentation at annual meeting, US Regional Association of the International Association for Landscape Ecology, Galveston, Texas.

White D, Minotti PG, Barczak MJ, Freemark KE, Sifneos JC, Santelmann MV, Steinitz CF, Kiester AR, Preston EM. 1996. Assessing risks to biodiversity from future landscape changes. Presentation at annual meeting, US Regional Association of the International Association for Landscape Ecology, Galveston, Texas.

White D, Kiester AR. 1995. Particular and general concepts of space in landscape ecology. Presentation at annual meeting, United States section of International Association of Landscape Ecology, Minneapolis, Minnesota.

White D, Minotti PG, Barczak MJ, Sifneos JC. 1995. Analysis of impacts of alternative future landscapes on terrestrial vertebrate diversity. Presentation at annual meeting, Association of American Geographers, Chicago, Illinois.

White D. 1994. Global hexagonal tessellations: 4-fold and 7-fold hierarchies. Presentation in panel "Geographical grid models for environmental monitoring and analysis across the globe", GIS/LIS '94, Phoenix, Arizona.

White D, Kiester AR. 1994. Particular and general concepts of space. Presentation at annual meeting, Association of American Geographers, San Francisco, California.

White D. 1991. Visualizing quality begins with epistemology. Position paper for National Center for Geographic Information and Analysis Specialist Meeting on Visualizing the Quality of Spatial Data, Castine, Maine.

Olsen AR, Stevens DL Jr, White D. 1991. Integrated area and grid-based sample designs for the US Environmental Monitoring and Assessment Program. Unpublished paper presented at Statistics Canada 1991, Ottawa, Ontario.

White D, Kimerling AJ. 1990. A global sampling design for environmental monitoring: introduction and geometric components. Presentation at GIS/LIS '90, Anaheim, California.

Kimerling AJ, White D. 1990. A global sampling design for environmental monitoring: cartographic components. Presentation at GIS/LIS '90, Anaheim, California.

White D, Overton WS, McKenzie D, Kimerling AJ, Tobler WR, Chen Z-T, Goodchild MF, Shiren Y, Dutton GH, Lukatela H. 1989. Alternative geometries for global sampling designs for environmental monitoring. Presentation at the Global Natural Resource Monitoring and Assessments: Preparing for the 21st Century Conference, sponsored by IUFRO and UN-FAO, Venice, Italy.

White D, Corson-Rikert J. 1987. Building geographic data bases for landscape analysis and planning. Unpublished paper presented at Association of American Geographers, 1987 Annual Meeting, Portland, Oregon.

White D. 1983. A graphics system for instruction in computer graphics. Unpublished paper presented at Harvard Computer Graphics Week, 1982.

White D. 1981. A taxonomy of space-time data relations. Unpublished paper presented at the Conference on Computer Graphics in Transportation Planning, Princeton University.

White D. 1979. The Odyssey system for display and analysis of geographic information. Presentation at Harvard Computer Graphics Week, 1979.

White D, Hunt AM. 1979. Introduction to computer mapping for technical professionals. Presentation at Harvard Computer Graphics Week, 1979.

POSTERS PRESENTED AT MEETINGS:

- Baker J, White D. 2005. Modeling the response of fish assemblages in stream networks to habitat change. Annual meeting of the Oregon Chapter of the American Fisheries Society, Corvallis, Oregon.
- White D, Sumner R, McDowell S, Baker J, Mouat D, Hulse D, Freemark K, Steinitz C, Santelmann M. 2005. Alternative futures: have EPA projects made a difference? EPA Science Forum, Washington, DC.
- White D. 1999. The diamond method for partitioning the surface of an octahedron or icosahedron for use in global grids. Environmental Monitoring and Assessment Program Symposium, San Francisco, California.
- Hulse D, Freemark K, Eilers J, White D, Bernert J. 1998. Impacts on biodiversity and water quality of possible futures in the Muddy Creek watershed, Benton County, Oregon. Willamette Confluence Conference, Salem, Oregon
- Nassauer J, Freemark K, Santelmann M, Cruse R, White D, Danielson B, Eilers J, Bernert J, Galatowitsch S, Polasky S. 1998. Modeling effects of alternative landscape design and management on water quality and biodiversity in midwest agricultural watersheds. Poster at annual meeting, US Regional Association of the International Association for Landscape Ecology, East Lansing, Michigan.
- White D, Sifneos JC. 1997. Mapping multivariate spatial relationships from regression trees by recursive binary partitions of the color spectrum. Poster at annual meeting, US Regional Association of the International Association for Landscape Ecology, Durham, North Carolina.
- Rathert D, White D, Sifneos J, Hughes RM. 1997. Environmental correlates of species richness in Oregon freshwater fishes. Poster at annual meeting, United States section of International Association of Landscape Ecology, Durham, North Carolina.
- Santelmann MV, Freemark KE, White D. 1996. Modeling effects of patch size and interior-edge relationships on habitat loss and risk of extinction for forest birds. Poster at IUFRO Workshop on Applications of Landscape Ecology in Forestry, Corvallis, Oregon.
- Rathert D, White D, Sifneos J, Hughes RM. 1996. Environmental correlates of species richness in Oregon freshwater fishes. Poster at Annual Meeting of the Western Division of the American Fisheries Society, Eugene, Oregon.
- Santelmann M, White D, Sifneos J, Freemark K, Barczak M. Modelling relative risks of local extinction in future landscapes. 1995. Poster at annual meeting, Ecological Society of America, Snowbird, Utah.
- Sifneos J, White D, Minotti P, Barczak M, Freemark K, Santelmann M, Kiester R. 1995. Methods to analyze the impacts of future landscape changes on biodiversity. Poster at annual meeting, Ecological Society of America, Snowbird, Utah.
- Phillips DL, White D. 1990. Use of the National Resources Inventory for broad scale ecological

studies. Poster at annual meeting of the Ecological Society of America, Snowbird, Utah. Abstract in Bulletin, Ecological Society of America 71:285.

White D. 1981. Experiments in land cover mapping: Massachusetts 1950 - 1970. Poster presented at the New England and St Lawrence Valley Regional Meeting of the Association of American Geographers, 1983.

White D. Mapping US energy. Poster presented at Harvard Computer Graphics Week, 1981.

Webb T III, Cole C, White D. 1976. Sensing Vegetation Change. Poster presented at Annual Meeting, Association of American Geographers, 1976.

PUBLISHED GRAPHICS:

White D, Steinitz C, Johnston D. 1982. 1980 land use of the Mount Monadnock region. Image published in The Computer Image, Addison-Wesley, Reading, MA.

OTHER PAPERS:

White D. 1982. Spectrally encoded vegetation maps. Unpublished paper.

White D. 1982. C.I.E. color gamuts for computer graphics. Unpublished paper.

White D. 1981. Cartographic data bases from the United States government. Chart prepared for Harvard Computer Graphics Week, 1981.