

Linking processes and pattern of land use change Overmars, K.P.

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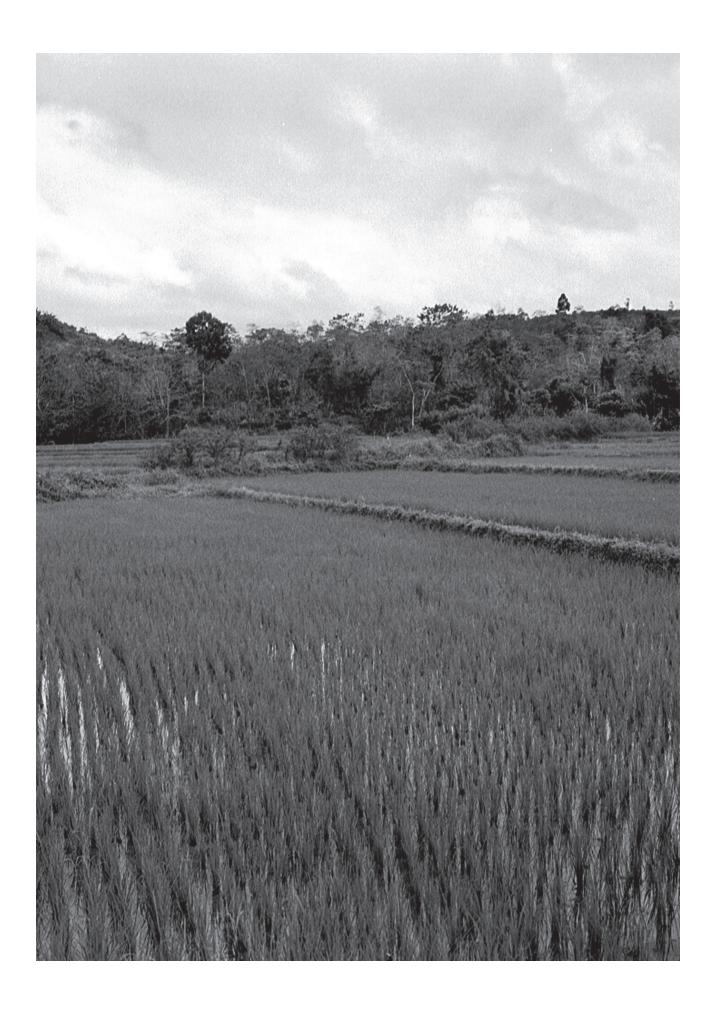
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- Alonso, W. 1964. Location and Land Use. Toward a General Theory of Land Rent. Harva University press, Cambridge, MA. 204 pt
- Anselin, L. 1988. Spatial Econometrics: Methods and Models. Kluwer Academic Publish ers, Dordrecht. 284 p
- Atauri, J.A., de Lucio, J.V. 2001. The role of landscape structure in species richness distribution of birds, amphibians, reptiles and lepidopterans in Mediterranean landscapes Landscape Ecology 16 (2), 147-159
- Bailey, S.A., Haines-Young, R.H., Watkins, C. 2002. Species presence in fragmented land scapes: modeling of species requirements at the national level. Biological Conservation 108, 307-316.
- Balagtas-Mangabat, C. 2002. Philippines' forest-relevant land use policies: General overview and background in implementation in San Mariano, Philippines. Project workir paper, CVPED, Cabagan, Isabela, Philippines
- Bebbington, A. 1999. Capitals and capabilities: A framework for analyzing peasant viabirural livelihoods and poverty. World Development 27 (12), 2021-204
- Bibby, C.J., Burgess, N.D., Hill, D.A. 1992. Bird Census Techniques. Academic Press, Lordon, UK. 257 p
- Blaikie, P. 1985. The Political Economy of Soil Erosion in Developing Countries. Longma Harlow, UK. 188 p
- Boserup, 1965. The Conditions of Agricultural Growth. Aldine, Chicago. 124
- Briassoulis, H. 2000. Analysis of land use change: Theoretical and modeling approaches. In: Loveridge, S. (ed.), The Web Book of Regional Science. West Virginia University, Morgantown.
- Brooks, T.M., Mitt ermeier, R.A., Mitt ermeier C.G., Da Fonseca, G.A.B., Rylands, A.B., Konstant, W.R., Flick, P., Pilgrim, J., Oldfi eld, S., Magin, G., Hilton-Taylor, C. 2002. Habitat loss and extinction in the hotspots of biodiversity. Conservation Biology 16 (909-923.
- Brooks, T.M., Pimm, S.L., Collar, N.J. 1997. Deforestation predicts the number of threater birds in insular Southeast Asia. Conservation Biology 11 (2), 382-39
- Brown, D.G., Walker, R., Manson, S., Seto, K. 2004. Modeling land use and land cover change. In: Gutman, G., Janetos, A.C., Justice, C.O., Moran, E.F., Mustard, J.F., Rindfi R.R., Skole, D.L., Turner, B.L., Cochrane, M.A. (eds.), Land Change Science: Observir Monitoring and Understanding Trajectories of Change on the Earth's Surface. Kluwe Academic Publishers, Dordrecht/Boston/London. pp. 395-40
- Brown, D.G., Page, S., Riolo, R., Zellner, M., Rand, W. 2005. Path dependence and the va dation of agent-based spatial models of land use. International Journal of Geographic Information Science 19 (2), 153-174
- Browne, W.J., Subramanian, S.V., Jones, K., Goldstein, H. 2005. Variance partitioning in multilevel logistic models that exhibit over-dispersion. Journal of Royal Statistical Society A 168, 599-614
- Brox, O. 1990. The common property theory epistemological status and analytical utili Human Organization 49 (3), 227-235
- Bruij nzeel, L.A. 2004. Hydrological functions of tropical forests: not seeing the soil for the trees? Agriculture, Ecosystems and Environment 104, 185-22

- Buckland, S.T., Elston, D.A. 1993. Empirical models for the spatial distribution of wildlif Journal of Applied Ecology 30, 478-495
- Bunnell, F.L., Huggard, D.J. 1999. Biodiversity across spatial and temporal scales: proble and opportunities. Forest Ecology and Management 115, 113-12
- Centre for multilevel modelling, 2005. Soft ware reviews of multilevel analysis packages htt p://www.mlwin.com/soft rev/index.html (October 29, 200
- Chomitz K.M., Gray D.A. 1996. Roads, land use, and deforestation: A spatial model app to Belize. World Bank Economic Review 10 (3), 487-51.
- Chomitz, K.M. Kumari, K. 1998. The domestic benefits of tropical forests. The World Ba Observer 13 (1), 13-35
- Chomitz K.M., Thomas T.S. 2003. Determinants of land use in Amazonia: A fi ne-scale spatial analysis. American Journal of Agricultural Economics 85 (4), 1016-102
- Cleuren, H.M.R.H. 2001. Paving the Road for Forest Destruction. Key Actors and Drivin Forces of Tropical Deforestation in Brazil, Ecuador and Cameroon. Leiden Development Studies, New Series, No. 1, Leiden University, Leiden, The Netherland
- Coleman, J.S. 1990. Foundations of Social Theory. Harvard University Press, Boston 993 p.
- Costanza, R. 1989. Model goodness of fit: A multiple resolution procedure. Ecological Modelling 47, 199-215
- Couclelis, H. 2001. Modeling frameworks, paradigms, and approaches. In: Clark, K.C., Parks, B.E., Crane, M.P. (eds.), Geographic Information Systems and Environmental Modeling. Longman & Co, New York. pp. 34-48
- Couto, P. 2003. Assessing the accuracy of spatial simulation models. Ecological Modelin 167, 181-198
- Coxhead, I. 2000. Consequences of a food security strategy for economic welfare, income distribution and land degradation: The Philippine case. World Development 28 (1), 111-128.
- Coxhead, I., Buenavista, G. 2001. Seeking sustainability: A synthesis of research in phase I of SANREM CRSP-Southeast Asia, 1993-98. In: Coxhead, I., Buenavista, G. (eds.), Seeking Sustainability: Challenges of Natural Resource Management in a Philippine Watershed. Philippines: Phil. Council on Agricultural Research, Natural Resources a Development, Los Baños. pp. 1-31
- Crawley, M.J. 1993. GLIM for Ecologists. Blackwell Science, Oxford. 379
- Dale, V.H. 1997. The relationship between land-use change and climate change. Ecologic Applications 7 (3), 753-769
- Dauber, J., Hirsch, M., Simmering, D., Waldhardt, R., Ott e, A., Wolters, V. 2003. Landsc structure as an indicator of biodiversity: matrix eff ects on species richness. Agricultu Ecosystems and Environment 98 (1-3), 321-329.
- De Groot, W.T. 1992. Environmental Science Theory; Concepts and Methods in a One-World, Problem Oriented Paradigm. Elsevier Science Publishers, Amsterdam. 583
- De Groot, W.T. 1999. Van vriend naar vij and naar verslagene en verder. Een evolutiona perspectief op de verhouding tussen ment en natuur. Nij megen University Pres Nij megen, The Netherlands. 50 p
- De Groot, W.T. 2003. Thunian land use theory, visions of nature, and the future of the Si Madre forest. In: Ploeg, J. van der, Bernardo, E.C., Masipiquena, A.B. (eds.), The Sier: Madre Mountain Range: Global Relevance, Local Realities. Golden Press, Tuguegara City, Philippines

- De Groot, W.T., De Jong, F.M.W., Van den Berg, M.M.H.E. 1987. Population dynamics o duckweed in polder ditches. Hydrobiological Archives 109 (4), 601-61
- De Groot, W.T., Kamminga, E.M. 1995. Forest, People, Government: a policy-oriented analysis of the social dynamics of tropical deforestation. Dutch National Programme on Global Air Pollution and Climate Change, Bilthoven, the Netherlands. 183
- DENR-CENRO (Department of Environment and Natural Resources, Community Environment and Natural Resources Office) 1998. Operations map 1:50000, CENRO Naguilan, Isabela, Philippines
- Doorman, F. 1991. A framework for the rapid appraisal of factors that infl uence the ado tion and impact of new agricultural technology. Human Organization 50 (3), 235-24
- Easterling, W.E. 1997. Why regional studies are needed in the development of full-scale integrated assessment modelling of global change processes. Global Environmental Change Part A 7 (4), 337-35€
- Elster, J. 1989. Nuts and Bolts for the Social Sciences. Cambridge University Press, Cambridge. 184 p.
- Eppink, F.V., van den Bergh, J.C.J.M., Rietveld, P. 2004. Modelling biodiversity and land use: urban growth, agriculture and nature in a wetland area. Ecological Economics 5 (3-4), 201-216
- ESSC (Environmental Science for Social Change, Inc.) 1999. Decline of the Philippine For est. The Bookmark, Inc., Makati City, Philippine
- Fairbanks, D.H.K. 2004. Regional land-use impacts aff ecting avian richness patt erns in Southern Africa-insights from historical avian atlas data. Agriculture, Ecosystems an Environment 101 (2-3), 269-288
- Fazey. I., Fischer, J., Lindenmayer, D.B. 2005. What do conservation biologists publish? Biological Conservation 124 (1), 63-73
- Fox, J., Rindfuss, R.R., Walsh, S.J. Mishra, V. (eds.) 2003. People and the Environment: A proaches for Linking Household and Community Surveys to Remote Sensing and Gl Kluwer Academic Publishers, Boston/Dordrecht/London. 344 1
- Garrity D.P., Kummer, D.M., Guiang, E.S. 1993. The Philippines. In: National Research Council Committee on sustainable agriculture and the environment in the humid troics (ed.), Sustainable Agriculture and the Environment in the Humid Tropics. Nation Academy Press, Washington, DC. pp. 549–624
- Geist, H.J., Lambin, E.F. 2002. Proximate causes and underlying driving forces of tropical deforestation. BioScience 52 (2), 143-150
- General, A.A. 1999. Co-management of the environment through the Socialized Integrat Industrial Forest Management Agreement (SIFMA): The San Mariano experience. In: Bernardo, E.C., Snelder, D.J. (eds.), Co-managing the Environment; The Natural Resources of the Sierra Madre Mountain Range. Proceedings International Work Confe ence, 21-24 September 1998, CVPED/Plan International, Cabagan, Philippine
- Geoghegan, J., Pritchard Jr, L., Ogneva-Himmelberger, Y., Chowdhury, R.R., Sanderson, Turner II, B.L. 1998. "Socializing the pixel" and "pixelizing the social" in land-use an land-cover change. In: Liverman, D., Moran, E., Rindfuss, R.R., Stern, P. (eds.), Peopl and Pixels: Linking Remote Sensing and Social Science. Committ ee on the Human Dimensions of Global Change, National Academy Press, Washington, D.C. 244
- Geoghegan, J., Cortina Villar, S., Klepeis, P., Macario Mendoza, P., Ogneva-Himmelberg Y., Roy Chowdhury, R., Turner II, B.L., Vance, C. 2001. Modeling tropical deforestation in the Southern Yucatán Peninsular Region: Comparing survey and satellite data Agriculture, Ecosystems and Environment 85 (1-3), 25-40

- Ghazoul, J., Hellier, A. 2000. Sett ing critical limits to ecological indicators of sustainable tropical forestry. International Forestry Review 2 (4), 243-25
- Gibson, C.C., Ostrom, E., Ahn, T.K. 2000. The concept of scale and the human dimension of global change: a survey. Ecological Economics 32 (2), 217-23
- Gibson, L.A., Wilson, B.A., Aberton, J.G. 2004. Landscape characteristics associated with species richness and occurrence of small native mammals inhabiting a coastal heathland: a spatial modelling approach. Biological Conservation 120 (1), 75-8
- Gilligan, C. 1982. In a Diff erent Voice: Psychological Theory and Women's Developmer Harvard University Press, Cambridge
- Glaser, B., Strauss, A. 1967. The Discovery of Grounded Theory. Aldine, Chicago. 271
- GLP (Global Land Project). 2005. Science Plan and Implementation Strategy. IGBP Report No. 53/IHDP Report No. 19. IGBP Secretariat, Stockholm. 64 p
- Goldstein, H. 1995. Multi-Level Statistical Models. Kendall's library of statistics, Vol 3. Edward Arnold, London
- Guisan, A., Zimmerman, N.E. 2000. Predictive habitat distribution models in ecology. Ecological Modelling 135, 147-186
- Hargis, C.D., Bissonett e, J.A., David, J.L. 1998. The behavior of landscape metrics commonly used in the study of habitat fragmentation. Landscape Ecology 13, 167-18
- Haynes, K.E., Fotheringham, A.S. 1984. Gravity and Spatial Interaction Models. Sage pulications, Beverly Hills, Ca. 88 p
- Henle, K., Lindenmayer, D.B., Margules, C.R., Saunders, D.A., Wissel, C. 2004. Species survival in fragmented landscapes. Biodiversity and Conservation 13 (1), 1-
- Hobbes, M., Stalpers, S.I.P., Kooij man, J., Le Thi Thu Thanh, Trinh Khanh Chi, Phan Thi Anh Dao. (Not dated). MFA in social context: A Vietnamese case study of combining the Material Flow Analysis and Action-in-Context frameworks. Journal of Industrial Ecology (accepted)
- Hoshino, S. 2001. Multilevel modeling on farmland distribution in Japan. Land Use Polin 18 (1), 75-90.
- Htt p://www.landsat.org.: Landsat image path 116, row 48, date: June 3, 2001. Source: Landsat.org, Basic Science and Remote Sensing Initiative, Michigan State University (htt p://www.landsat.org
- Huigen, M.G.A. 2004. First principles of the MameLuke multi-actor modelling framewo for land use change, illustrated with a Philippine case study. Journal of Environment Management 72 (1-2), 5-21
- Huigen, M.G.A., Jens, I. (Not dated). Socio-economic impact of super typhoon Harurot i San Mariano, Isabela, the Philippines. World Development (submitt ed
- Irwin, E.G. Geoghegan, J. 2001. Theory, data, methods: developing spatially explicit economic models of land use change. Agriculture, Ecosystems and Environment 85 (1-3) 7-24.
- IUCN. 2005. 2005 IUCN Red List of Threatened Species. www.iucn.redlist.org. Downloaded on 25 August 2005
- IHDP. 2005. IHDP Update. Newslett er of the international human dimensions program on global environmental change. Nr. 3/2005 "Land-Use and Land-Cover Change". IHDP, Bonn, Germany
- Jepsen, J.U., Topping, C.J. Odderskær, P., Andersen, P.N. 2005. Evaluating consequences land-use strategies on wildlife populations using multiple-species predictive scenario Agriculture, Ecosystems and Environment 105 (4). 581-59.

- Johns, A.D. 1996. Bird population persistence in Sabahan logging concessions. Biological Conservation 75, 3-10
- Jones, K., Duncan, C. 1995. Individuals and their ecologies: analysing the geography of chronic illness within a multilevel modelling framework. Health and Place 1 (1), 27-4
- Jongman, M. 1997. The Discours of Logging Bans. A Case Study of the Logging Moratotium in San Mariano, Isabela, The Philippines. MA-thesis, CML student report No 76 Leiden, Netherlands, and Cabagan, Isabela, Philippines
- Kennedy, R.S., Gonzales, P.C., Dickinson, E.C., Miranda, Jr., H.C. Fisher, T.H. 2000. A Goto to the Birds of the Philippines. Oxford University Press, Oxford
- Klein, M. 2003. Introducing Fruit-Trees at Smallholder's Farmers: Potential and Constra (Environment and development student report, nr. 160). Leiden; Cabagan: Leiden University, Centre of Environmental Science; Isabela State University, Cabagan Valle Programme on Environment and Development (CVPED
- Kok, K., Farrow, A., Veldkamp A., Verburg, P.H. 2001. A method and application of mu scale validation in spatial land use models Agriculture, Ecosystems and Environmen 85 (1-3), 223-238
- Kok, K., Veldkamp A. 2000. Using the CLUE framework to model changes in land use on multiple scales. In: Bouman, B.A.M., Jansen, H.G.P., Schipper, R.A., Hengsdij k, H. Nieuwenhuyse, A. (eds.), Tools for Land Use Analysis on Diff erent Scales with Case Studies for Costa Rica. Kluwer, Dordrecht. pp. 35-6.
- Kok, K., Winograd, M. 2002. Modelling land use change for Central-America, with speci reference to the impact of Hurricane Mitch. Ecological Modelling 149, 53-6
- Kummer, D.M. 1992. Deforestation in the Post-War Philippines. Ateneo de Manila University Press, Manila; University of Chicago Press, Chicago. 177 1
- Lambin, E.F., Baulies, X., Bockstael, N., Fischer, G., Krug, T., Leemans, R., Moran, E.F., Rindfuss, R.R., Skole, D., Turner II, B.L., Vogel, C. 1999. Land-Use and Land-Cover Change: Implementation Strategy, IGBP Report No. 48/IHDP Report No. 10, IGBP, Stockholm. 125 p
- Lambin E.F., Turner II, B.L., Geista, H.J., Agbola, S.B., Angelsen, A., Brucee, J.W., Coome OT., Dirzo, R., Fischer, G., Folke, C., George, P.S., Homewood, K., Imbernon, J., Leen R., Xiubin Li, Moran, E.F., Mortimore, M., Ramakrisnan, P.S., Richards, J.F., Skanes, I Steff en, W., Stone, G.D. Svedin, U., Veldkamp, A. Vogel, C., Jianchu Xu. 2001. The ca of land-use and land-cover change: moving beyond the myths. Global Environmenta Change 11 (4), 261-269
- Lambin E.F., Ehrlich D. 1997. Land-cover Changes in Sub-Saharan Africa (1982-1991): Application of a change index based on remotely sensed surface temperature and veget tion indices at a continental scale. Remote Sensing of Environment 61 (2), 181-20
- Lambin, E.F., Geist, H.J., Lepers, E. 2003. Dynamics of land-use and land-cover change in tropical regions. Annual Review of Environment and Resources 28, 205-24
- Lambin, E.F., Geist H., Rindfuss, R.R. 2005. Land-use and land-cover change: developing and implementing an agenda for local processes with global impacts. In: IHDP, IHD: Update. Newslett er of the international human dimensions programme on global environmental change. Nr. 3/2005 "Land-Use and Land-Cover Change". IHDP, Bonr Germany
- Laney, R.M. 2004. A process-led approach to modeling land change in agricultural landscapes: a case study from Madagascar. Agriculture, Ecosystems and Environment 10 (2-3), 135-153

- Liao, S. 2003. Knowledge management technologies and applications literature review from 1995 to 2002. Expert Systems with Applications 25, 155-16
- Liverman, D., Moran, E., Rindfuss, R.R., Stern, P. (eds.) 1998. People and pixels: Linking Remote Sensing and Social Science, Committ ee on the Human Dimensions of Globa Change National Academy Press, Washington D.C. 244
- Lobo, J.M., Martín-Piera, F. 2002. Searching for a predictive model for species richness of Iberian dung beetle based on spatial and environmental variables. Conservation Biology 16 (1), 158-173
- LUCC scientifi c steering committ ee. 2005. Frontiers in Land-use/cover change research. IHDP, IHDP Update. Newslett er of the international human dimensions programmon global environmental change. Nr. 3/2005 "Land-Use and Land-Cover Change". IHDP, Bonn, Germany
- Luoto, M., Virkkala, R., Heikkinen, R.K., Rainio, K. 2004. Predicting bird species richnes using remote sensing in boreal agricultural-forest mosaics. Ecological Applications 1 (6), 1946-1962
- Mac Nally, R., Fleishman, E., Fay, J.P., Murphy, D.D. 2003. Modelling butt erfl y species ness using mesoscale environmental variables: model construction and validation for mountain ranges in the Great Basin of western North America. Biological Conservati 110 (1), 21-31
- Malthus, R., 1967 [1789]. Essay on the Principles of Population. 7th edition, Dent, Londo Manson, S.M. 2001. Simplifying complexity: a review of complexity theory. Geoforum 3: (3), 405-414.
- McConnell, W. 2002. Preface. In: Parker, D.C., Berger, T., Manson, S.M. (eds.), Agent-Bas Models of Land-Use and Land-Cover Change; Report and Review of an Internationa Workshop, October 4-7, 2001. Indiana University, LUCC Report Series No.
- McConnell, W., Moran, E.F. 2001. Meeting in the Middle: The Challenge of Meso-Level Integration. An International Workshop on the Harmonization of Land Use and Lan Cover Classification. LUCC Report Series No. 5. Indiana University, Bloomington, USA.
- Menard, S. 2001. Applied Logistic Regression Analysis. Sage University Papers Series or Quantitative Applications in the Social Sciences, 07-106, Sage, Thousand Oaks, C.
- Menon, S., Pontius, R.G., Rose, J., Khan, M.L., Bawa, K.S. 2001. Identifying conservation-priority areas in the tropics: a land-use change modeling approach. Conservation Biology 15 (2), 501-512
- Mertens, B., Sunderlin, W.D., Ndoye, O., Lambin, E.F. 2000. Impact of macroeconomic change on deforestation in South Cameroon: Integration of household survey and remotely-sensed data. World Development 28 (6), 983-9
- Moonen, E. 2002. Improving Your Land...: From 'Swidden' to 'Rice-Paddy' in the Forest Frontier of the Sierra Madre Mountains of Luzon, the Philippines. Centre of Environmental Science (CML), Leiden, The Netherlands
- Moran, E.F., Skole, D.L., Turner II, B.L. 2004. The development of the international land and land cover change (LUCC) research program and its links to NASA's land cover and land use change (LCLUC) initiative. In: Gutman, G.; Janetos, A.C.; Justice, C.O.; Moran, E.F.; Mustard, J.F.; Rindfuss, R.R.; Skole, D.; Turner II, B.L.; Cochrane, M.A. (eds.), Land Change Science: Observing, Monitoring and Understanding Trajectories Change on the Earth's Surface. Series: Remote Sensing and Digital Image Processing, Vol. 6. Kluwer, Dordrecht. 461 pt

- Müller, D., Zeller, M. 2002. Land use dynamics in the central highlands of Vietnam: a sp model combining village survey data with satellite imagery interpretation. Agricultu Economics 27 (3), 333-354
- Municipality of San Mariano and Housing and Land Use Regulatory Board. 2000. Comprehensive Development Plan San Mariano, Isabela (planning period 2000-2004)
- Myers, N., Mitt ermeier, R.A., Mitt ermeier, C.G., da Fonseca, G.A.B., Kent, J. 2000. Biodi sity hotspots for conservation priorities. Nature 403, 853–85
- NAMRIA. Not dated. Sheet 7476 IV San Mariano 1:50000, NAMRIA: National Mapping and Resource Information Authority, Department of Environment and Natural Resources, Fort Bonifacio, Makati, Manila, Philippine:
- Nelson, G. C. 2002. Introduction to the special issue on spatial analysis for agricultural economists. Agricultural Economics 27 (3), 197-20(
- Nelson, G.C., De Pinto, A., Harris, V., Stone, S. 2004. Land use and road improvements: spatial perspective. International Regional Science Review 27 (3), 297-32
- Nelson, G.C., Harris, V., Stone, S.W. 2001. Deforestation, land use and property rights: empirical evidence from Darien, Panama. Land Economics 77 (2), 187-20
- Neter, J., Kutner, M.H., Nachtsheim, C.J., Wasserman, W. 1996. Applied Linear Statistica Models, 4th edition. Irwin, Burr Ridge, Illinois. 1408 p
- Osborne, P.E., Alonso, J.C., Bryant, R.G. 2001. Modelling landscape-scale habitat use using GIS and remote sensing: a case study with great bustards. Journal of Applied Ecolog 38, 458–471.
- Ostrom, E. 1990. Governing the Commons: the Evolution of Institutions for Collective A tion. Cambridge University Press, Cambridge
- O'Sullivan, D. 2004. Complexity science and human geography. Transactions of the Inst tute of British Geographers, 29 (1) 282-295
- Overmars, K.P., De Groot, W.T., Huigen, M.G.A. 2006. Comparing Inductive and Deductive Modeling of Land Use Decisions: Principles, a Model and an Illustration from the Philippines. Human Ecology (accepted)
- Overmars, K.P., De Koning, G. H. J., Veldkamp, A. 2003. Spatial autocorrelation in multi scale land use models. Ecological Modelling 164 (2-3), 257-27
- Overmars, K.P., Verburg, P.H. 2005. Analysis of land use drivers at the watershed and household level: Linking two paradigms at the Philippine forest fringe. International Journal of Geographical Information Science 19 (2), 125-15.
- Overmars, K.P., Verburg, P.H. 2006. Comparison of an actor-based and an empirical approach to specify a spatially explicit land use model. Land Use Policy (accepted
- Pan, W., Bilsborrow, R.E. 2005. The use of a multilevel statistical model to analyze factor infl uencing land use: A study of the Ecuadorian Amazon. Global and Planetary Cha 47 (2-4), 232-252
- Parker, D.C., Berger, T., Manson, S.M. (eds.) 2002. Agent-Based Models of Land-Use and Land-Cover Change. LUCC Report Series No. 6. LUCC Focus I Office, Indiana Univ sity. 124 p
- Parker D.C., Manson S.M., Janssen M.A., Hoff mann M.J., Deadman P. 2003. Multi-agent systems for the simulation of land-use and land-cover change: A review. Annals of the Association of American Geographers 93 (2), 314-33.
- Persoon, G.A., Van der Ploeg, J. 2003. Reviewing the projected future of San Mariano, a boomtown at the Sierra Madre forest fringe. Philippines Studies 51 (3), 451-47

- Perz, S.G., Walker, R.T. 2002. Household life cycles and secondary forest cover among si farm colonists in the amazon. World Development 30 (6), 1009-102
- Perz S.G., Skole D.L. 2003. Social determinants of secondary forests in the Brazilian Amazon. Social Science Research 32 (1), 25-60
- Pickett , S.T.A., Burch jr., W.R., Morgan, J.M. 1999. Interdisciplinary research: Maintainir the constructive impulse in a culture of criticism. Ecosystems 2, 302-30
- Pij anowski, B.C., Brown, D. G., Manik, G., Shellito, B. 2002. Using artificial neural netw and GIS to forecast land use changes: A land transformation model. Computers, Env ronment and Urban Systems 26 (6), 553-575
- Polsky, C., 2004. Putt ing space and time in ricardian climate change impact studies: Agriculture in the U.S. Great Plains, 1969 1992. Annals of the Association of American Geographers 94 (3), 549-564
- Polsky, C., Easterling III, W.E. 2001. Adaptation to climate variability and change in the U.S. Great Plains: A multi-scale analysis of Ricardian climate sensitivities. Agricultur Ecosystems and Environment 85 (1-3), 133-144
- Pontius Jr., R.G., Boersma, W., Castella, J-C., Clarke, K., De Nij s, T., Dietzel, C., Zengqia Duan, Fotsing, E., Goldstein, N., Kok, K., Koomen, E., Lippitt, C.D., McConnell, W., janowski, B., Pithadia, S., Mohd Sood, A., Sweeney, S., Tran Ngoc Trung, Verburg, P 2005. Cross case comparison for several prominent land change models. Presentatior at the 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Bonn 9-13 October 2005. Downloaded from: htt p://www.clarledu/~rpontius/ on 30-1-2006
- Pontius Jr., R.G., Cornell, J.D., Hall, C.A.S. 2001. Modelling the spatial patt ern of land use change with GEOMOD2: Application and validation for Costa Rica. Agriculture, Ecosystems and Environment 85 (1-3), 191-203
- Pontius, Jr., R.G., Schneider, L.C. 2001. Land-cover change model validation by an ROC method for the Ipswich watershed, Massachusett s, USA. Agriculture, Ecosystems ar Environment 85 (1-3), 239-248
- Popper, K.R. 1963. Conjectures and refutations: the growth of scientific knowledge. Routledge and Kegan Paul, London
- Rasbash, J., Browne, W., Goldstein., H., Yang, M., Plewis, I., Healy, M., Woodhouse, G., Draper, D., Langford, I., Lewis, T. 2000. A User's Guide to MLwiN (Second Edition), Institute of Education, London. 278 p
- Raudenbush, S., Bryk, A., Congdon K. 2004. HLM 6, Hierarchical Linear and Non-Linea Modelling. SSI, Scientifi c Soft ware internation
- Rindfuss, R.R., Walsh, S., Mishra, V., Fox, J., Dolcemascolo, G.P. 2003. Linking househole and remotely sensed data. In: Fox, J., Rindfuss, R.R., Walsh, S.J., Mishra, V. (eds.), Pe and the Environment: Approaches for Linking Household and Community Surveys Remote Sensing and GIS. Kluwer Academic Publishers, Boston. pp. 1-2
- Rindfuss, R.R., Walsh, S.J., Turner II, B.L., Fox, J., Mishra, V. 2004. Developing a science land change: Challenges and methodological issues. PNAS 101 (39), 13976–1398
- Robinson, W. 1950. Ecological correlations and the behaviour of individuals'. American Sociological Review (15), 351 357
- Rotmans, J., van Asselt, M.B.A., Anastasi, C., Greeuw, S.C.H., Mellors, J., Peters, S., Roth D., Rij kens, N. 2000. Visions for a sustainable Europe. Futures 32 (9-10), 809 80
- Rudel, T., Roper, J. 1997. The paths to rain forest destruction: Crossnational patt erns of tropical deforestation, 1975-90. World Development 25 (1), 53-6

- Schneider, L.C., Pontius Jr, R.G. 2001. Modeling land use change in the Ipswich watersh Massachusett s, USA. Agriculture, Ecosystems and Environment 85 (1-3), 83-9.
- Schoenberger, E. 2001. Interdisciplinarity and social power. Progress in Human Geograp 25 (3), 365-382
- Schwanen T., Dieleman F.M., Dij st M. 2004. The impact of metropolitan structure on commute behavior in the Netherlands: A multilevel approach. Growth and Change 35 (3 304-333.
- Serneels, S., Lambin, E.F. 2001. Proximate causes of land-use change in Narok District, Kenya: a spatial statistical model. Agriculture, Ecosystems and Environment 85 (1-3) 65-81.
- Snelder, D.J. 2001. Forest patches in Imperata grassland and prospects for their preserva tion under agricultural. Agroforestry Systems 52, 207-21
- Snij ders, T.A.B., Bosker, R.J. 1999. Multilevel Analysis: An Introduction to Basic and Ad vanced Multilevel Modelling. Sage, New York. 266 1
- Sodhi, N.S., Liow, L.H., Bazzaz, F.A. 2004. Avian extinctions from tropical and subtropic forests. Annual Review of Ecology Evolution and Systematics 35, 323-34
- Solecki, W.D., Oliveri, C. 2004. Downscaling climate change scenarios in an urban land t change model. Journal of Environmental Management 72 (1-2), 105-11
- Staal, S.J., Baltenweck, I., Waithaka, M.M., deWolff T., Njoroge, L. 2002. Location and uptake: integrated household and GIS analysis of technology adoption and land use, with application to smallholder dairy farms in Kenya. Agricultural Economics 27 (3), 295-315.
- Sterken, J. 2004. Banana-based farming systems in relation to soil quality in San Marianc municipality, Isabela Province, the Philippines. Environment and development student report, nr. 172. Leiden; Cabagan: Leiden University. Institute of Environmental Sciences; Isabela State University. Cabagan Valley Programme on Environment and Development (CVPED)
- Stolle, F., Chomitz, K.M., Lambin, E.F., Tomich, T.P. 2003. Land use and forest fi res in Japrovince, Sumatra, Indonesia. Forest, Ecology and Management 179 (1-3), 277-29
- Steiner, N.C., Köhler, W. 2003. Eff ects of landscape patt erns on species richness—a moc ling approach. Agriculture, Ecosystems and Environment 98 (1-3), 353-36
- Store, R., Jokimäki, J. 2003. A GIS-based multi-scale approach to habitat suitability modeling. Ecological Modelling 169, 1-15
- Swets, J.A. 1988. Measuring the accuracy of diagnostic systems. Science 240, 1285-129
- Tadepally, H. 1999. Neglect and restoration of minor irrigation tanks in Krishna district, India: a local-level case study of motivation, capacity and partnership interventions. Maruthibala Publishers, Nuzvid
- Thij s, W. 2005. The Distribution of Bird and Bat Species in Remnant Forest Patches in N east Luzon, Philippines, in Relation to Landscape Characteristics. Student report 186. CML Leiden University and Dept. of Environmental Sciences, Wageningen Universi
- Tilman, D., May, R.M., Lehman, C.L., Novak, M.A. 1994. Habitat destruction and the extinction debt. Nature 371, 65-66
- Tobler, W.R. 1970. A computer movie simulating urban growth in the Detroit region. Ec nomic Geography 46, 234–40
- Tobler, W.R. 1979. Cellular geography. In: Gale, S., Olssen, G. (eds.), Philosophy in Geog phy. Reidel, Dordrecht. pp. 379-386

- Turner II, B.L., Moran, E.F., Rindfuss, R.R. 2004. Integrated Land-Change Science and Its Relevance to the Human Sciences In: Gutman, G., Janetos, A.C., Justice, C.O., Moran, E.F., Mustard, J.F., Rindfuss, R.R., Skole, D., Turner II, B.L., Cochrane, M.A. (eds.), La Change Science: Observing, Monitoring and Understanding Trajectories of Change on the Earth's Surface. Series: Remote Sensing and Digital Image Processing, Vol. 6. Kluwer, Dordrecht. pp 431-447
- Turner II, B.L., Skole, D, Sanderson, S., Fischer, G., Fresco L., Leemans, R. 1995. Land Us and Land-Cover Change Science/Research Plan. IGPB Report No. 35 and HDP Report No. 7. 132 p.
- Turner, I.M. 1996. Species loss in fragments of tropical rain forest: a review of the evider Journal of Applied Ecology 33, 200-209
- Turner, M.D. 2003. Methodological reflections on the use of remote sensing and geogral information science in human ecological research. Human Ecology 31 (2), 255-27
- Valmayor, R.V., Jones, D.R., Subij anto, Polprasid, P., Jamaluddin, S.H. 1990. Bananas an Plantains in Southeast Asia, INIBAP, Montpellie
- Vance, C., Geoghegan, J. 2002. Temporal and spatial modelling of tropical deforestation: a survival analysis satellite and household survey data. Agricultural Economics 27, 317-332.
- Van den Top, G.M. 1998. The Social Dynamics of Deforestation in the Sierra Madre, Phil pines. PhD. Thesis, Centre of Environmental Science, Leiden University. 437
- Van der Ploeg, J., Van Weerd, M. 2004. Devolution of natural resource management and Philippine crocodile conservation in San Mariano, Isabela. Philippine Studies 52 (3), 345-382.
- Van Egmond, F. 2003. Land Use, Geomorphology and Soil properties in the San Mariano Watershed, Philippines. MSc. Thesis, Wageningen University, The Netherlands, studies report, Leiden University, The Netherlands
- Van Weerd, M. 2002. Summary Report of the Fauna Study Results in the Northern Sierra Madre Natural Park by the Plan – Philippines / Northern Sierra Madre Natural Park – Conservation Project. NSMNP-CP, Cabagan, Philippine
- Van Weerd, M., Van Boven, G., Van der Ploeg, J. 2004. Using communication to involve local communities and local governments in protected area management: two related cases from Northeastern Luzon, Philippines. In: Hamú, D., Auchincloss, E., Goldstein W. (eds.), Communicating Protected Areas. Commission on Education and Communication, IUCN, Gland, Switzerland and Cambridge, UK. pp. 139-15
- Vayda, A.P. 1983. Progressive contextualization: methods for research in human ecology Human Ecology 11 (3), 265-281
- Vayda, A.P. Walters, B.B. 1999. Against political ecology. Human Ecology 27 (1), 167-1
- Veldkamp, A., Fresco, L.O. 1997. Reconstructing land use drivers and their spatial deperence for Costa Rica (1973 and 1984). Agricultural Systems 55, 19-4
- Veldkamp, A., Lambin, E.F. 2001. Predicting land-use change. Agriculture, Ecosystems & Environment 85 (1-3), 1-6
- Veldkamp, A., Kok, K., De Koning, G.H.J., Schoorl, J.M., Sonneveld, M.P.W., Verburg, P 2001. Multi-scale system approaches in agronomic research at the landscape level. Sc and Tillage Research 58 (3-4), 129-140.
- Veldkamp A., Verburg, P.H. 2004. Modelling land use change and environmental impact Journal of Environmental Management 72 (1-2), 1-3
- Verbeek, M. 2000. A Guide to Modern Econometrics, John Wiley and Sons. 386

- Verburg, P.H., Chen, Y.Q. 2000. Multiscale characterization of land-use patt erns in Chir Ecosystems 3, 369-385
- Verburg, P.H., De Groot, W.T., Veldkamp, A. 2003. Methodology for multi-scale land-us modelling: concepts and challenges. In: Dolman, A.J., Verhagen, A., Rovers, C.A. (eds.), Global Environmental Change and Land Use. Kluwer Academic Publishers, Dordrecht/Boston/London
- Verburg, P.H., Overmars, K.P., Witt e, N. 2004a. Accessibility and land use patt erns at the forest fringe in the Northeastern part of the Philippines. The Geographical Journal 17 (3), 238-255.
- Verburg, P.H., Ritsema van Eck, J., de Nij s, T.C.M., Dij st, M.J., Schot, P. 2004b. Determin of land use change patt erns in the Netherlands. Environment and Planning B 31, 125 150.
- Verburg, P.H., Ritsema van Eck, J., de Nij s, T.C.M., Visser, H., de Jong, K. 2004c. A meth to analyse neighbourhood characteristics of land use patt erns. Computers, Environment and Urban Systems 28 (6), 667-690
- Verburg, P.H., Schot, P., Dij st, M., Veldkamp, A. 2004d. Land use change modelling: cur practice and research priorities. GeoJournal 61 (4), 309-324
- Verburg, P.H., Soepboer, W., Veldkamp, A., Limpiada, R., Espaldon, V., Sharifah Mastu S.A. 2002. Modeling the spatial dynamics of regional land use: the CLUE-S Model. Environmental Management 30 (3), 391-405
- Verburg, P.H., Veldkamp, A. 2004. Projecting land use transitions at forest fringes in the Philippines at two spatial scales. Landscape Ecology 19 (1), 77-9
- Vitousek, P.M., Mooney, H.A., Lubchenco, J., Melillo, J.M. 1997. Human domination of earth's ecosystems. Science 277, 494-499.
- Von Thünen, J.H. 1966. Der isolierte staat in beziehung der landwirtschaft und nationalökonomie. In: Hall, P. (ed.), Von Thünen's Isolated State. Pergamon press, Oxfo
- Walker, R. 2004. Theorizing land-cover and land-use change: The case of tropical defore tion. International Regional Science Review 27 (3), 247-27
- Walker, R., Perz, S., Caldas, M., Silva, L.G.T. 2002. Land use and land cover change in fo frontiers: The role of household life cycles. International Regional Science Review 25 (2), 169-199.
- Walker, R., Moran, E., Anselin, L. 2000 Deforestation and cattle ranching in the Brazilian Amazon: External capital and household processes. World Development 28 (4), 683-699.
- Walker, R., Solecki, W. 2004. Theorizing land-cover and land-use change: The case of the Florida Everglades and its degradation. Annals of the Association of American Geog raphers 94 (2), 311-328
- Walsh, S.J., Bilsborrow, R.E., McGregor, S.J., Frizzelle, B.G., Messina, J.P., Pan, W.K.T., Crews-Meyer, K.A., Taff, G.N., Baquero, F.D. 2003. Integration of longitudinal surve remote sensing time-series, and spatial analyses: approaches for linking people and place. In: Fox, J., Rindfuss, R.R., Walsh, S.J., Mishra, V., (eds.), People and the Environment: Approaches for Linking Household and Community Surveys to Remote Sensin and GIS. Kluwer Academic Publishers, Boston/Dordrecht/London. pp. 91-13
- Walsh, S.J., Crawford, T.W., Welsh, W.F., Crews-Meyer, K.A. 2001. A multiscale analysis of LULC and NDVI variation in Nang Rong district, northeast Thailand. Agriculture Ecosystems and Environment 85 (1-3), 47-64
- Walsh, S.J., Crews-Meyer, K.A. (eds.) 2002. Linking People, Place, and Policy. A GIS Scie Approach. Kluwer Academic Publishers, Dordrecht. 348 1

Linking process and pattern of land use change

- Walsh S.J., Evans T.P., Welsh W.F., Entwisle B., Rindfuss R.R. 1999. Scale dependent relationships between population and environment in Northeastern Thailand. Photogram metric Engineering and Remote Sensing 65, 97–105.
- WBCP. 2004. Checklist of Birds of the Philippines. Jensen, A., Pryor, S., Allen, D. (eds.), Wild Bird Club of the Philippines (WBCP), Manila
- White, R., Engelen, G., Uljee, I. 1997. The use of constrained cellular automata for high-resolution modelling of urban land-use dynamics. Environment and Planning B 24, 323–343.
- Witt e N. 2003. Accessibility as a Driver for Land Use Change. MSc. Thesis, Wageningen University, The Netherlands, student report, Leiden University, The Netherland
- Zuiderwij k, A.B. 1998. Farming Gently, Farming Fast. Migration, Incorporation and Ag cultural Change in the Mandara Mountains of Northern Cameroon. PhD dissertation Leiden University, Leiden, The Netherland