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[1]

B. Worm et al., 'Rebuilding Global Fisheries', *Science*, vol. 325, no. 5940, pp. 578–585, July 2009, doi: 10.1126/science.1173146

[2]

D. Pauly et al., 'Towards sustainability in world fisheries', *Nature*, vol. 418, no. 6898, pp. 689–695, Aug. 2002, doi: 10.1038/nature01017

[3]

M. Heino and K. Enberg, 'Sustainable Use of Populations and Overexploitation', in *Encyclopedia of life sciences*, New York: Facts On File, 2009. doi: 10.1002/9780470015902.a0020476. Available: <http://doi.wiley.com/10.1002/9780470015902.a0020476>

[4]

M. Gillman, 'Population Dynamics: Introduction', in *Encyclopedia of life sciences*, New York: Facts On File, 2009. doi: 10.1038/npg.els.0003164. Available: <http://doi.wiley.com/10.1038/npg.els.0003164>

[5]

T. M. Donovan and C. W. Welden, *Spreadsheet exercises in conservation biology and landscape ecology*. Sunderland, Mass: Sinauer Associates, 2002.

[6]

A. D. Howard, 'Geomorphological systems; equilibrium and dynamics', *American Journal of Science*, vol. 263, no. 4, pp. 302–312, Apr. 1965, doi: 10.2475/ajs.263.4.302

[7]

L. W. Botsford, 'The Management of Fisheries and Marine Ecosystems', *Science*, vol. 277, no. 5325, pp. 509–515, July 1997, doi: 10.1126/science.277.5325.509

[8]

L. J. Bracken and J. Wainwright, 'Geomorphological equilibrium: myth and metaphor?', *Transactions of the Institute of British Geographers*, vol. 31, no. 2, pp. 167–178, June 2006, doi: 10.1111/j.1475-5661.2006.00204.x

[9]

R. K. Bock and W. Krischer, *The Data Analysis BriefBook*, vol. Accelerator Physics. Berlin, Heidelberg: Springer Berlin Heidelberg, 1998. Available: <http://dx.doi.org/10.1007/978-3-662-03725-6>

[10]

M. J. Coe, D. H. Cumming, and J. Phillipson, 'Biomass and production of large African herbivores in relation to rainfall and primary production', *Oecologia*, vol. 22, no. 4, pp. 341–354, 1976, doi: 10.1007/BF00345312

[11]

V. J. Easton and J. H. McColl, *Statistics Glossary*. 2000. Available: <http://www.stats.gla.ac.uk/steps/glossary/index.html>

[12]

D. M. Lane, *HyperStat Online: An Introductory Statistics Textbook and Discussion of whether most published research is false*. 2003. Available: <http://davidmlane.com/hyperstat/>

[13]

R. Lowry, Inferential Statistics. 2003. Available: <http://vassarstats.net/textbook/>

[14]

G. P. Quinn and M. J. Keough, Experimental design and data analysis for biologists. Cambridge, UK: Cambridge University Press, 2002.

[15]

D. Rowntree, Statistics without tears: a primer for non-mathematicians, Classic ed., vol. Allyn and Bacon classics. Boston: Allyn and Bacon, 2004.

[16]

R. R. Sokal and F. J. Rohlf, Biometry: the principles and practice of statistics in biological research, 3rd ed. New York: Freeman, 1995.

[17]

StatSoft, Electronic Statistics Textbook. 2013. Available: <https://statisticasoftware.wordpress.com/2012/04/12/electronic-statistics-textbook/>

[18]

N. Castree, A. Rogers, D. J. Sherman, and Ebooks Corporation, 'Models, modelling, and geography', in Questioning geography: fundamental debates, Malden, MA: Blackwell Pub, 2005. Available: <http://auckland.ebib.com.ezproxy.auckland.ac.nz/patron/Read.aspx?p=243571&pg=220>

[19]

P. Müller, 'Constructing climate knowledge with computer models', Wiley Interdisciplinary Reviews: Climate Change, vol. 1, no. 4, pp. 565–580, 2010, doi: 10.1002/wcc.60

[20]

'The Method of Multiple Working Hypotheses', Science, vol. 15, no. 366, pp. 92–96, 1890,

Available: <http://www.jstor.org.ezproxy.auckland.ac.nz/stable/1764336>

[21]

John R. Platt, 'Strong Inference', *Science*, vol. 146, no. 3642, pp. 347–353, 1964, Available: <http://www.jstor.org.ezproxy.auckland.ac.nz/stable/1714268>

[22]

M. Mulligan and J. Wainwright, 'Modelling and model building', in *Environmental Modelling*, J. Wainwright and M. Mulligan, Eds, New York: John Wiley & Sons, Ltd., 2005, pp. 7–68. Available: <http://site.ebrary.com.ezproxy.auckland.ac.nz/lib/auckland/reader.action?ppg=27&docID=10650971&tm=1453163605208>

[23]

M. Agar, 'My Kingdom for a Function: Modeling Misadventures of the Innumerate', *Journal of Artificial Societies and Social Simulation*, vol. 6, no. 3, 2003, Available: <http://jasss.soc.surrey.ac.uk/6/3/8.html>

[24]

N. J. Gotelli and A. M. Ellison, 'A primer of ecological statistics', in *A primer of ecological statistics*, Sunderland, Mass: Sinauer Associates Publishers, 2004.

[25]

A. B. Murray, 'Contrasting the goals, strategies, and predictions associated with simplified numerical models and detailed simulations', in *Prediction in geomorphology*, P. R. Wilcock and R. M. Iverson, Eds, Washington, D.C.: American Geophysical Union, 2003, pp. 151–165. Available: <http://onlinelibrary.wiley.com.ezproxy.auckland.ac.nz/doi/10.1029/135GM11/summary>

[26]

N. Oreskes, 'The role of quantitative models in science', in *Models in ecosystem science*, C. D. W. Canham, J. Cole, and W. K. Lauenroth, Eds, Princeton, N.J.: Princeton University Press, 2003, pp. 14–31.

[27]

T. S. Hatamian, 'Mathematical fortune-telling', *Complexity*, vol. 6, no. 5, pp. 27–40, 2001, doi: 10.1002/cplx.1049

[28]

J. M. Epstein, 'Why Model?', *Journal of Artificial Societies and Social Simulation*, vol. 11, no. 4, 2008, Available: <http://jasss.soc.surrey.ac.uk/11/4/12.html>

[29]

N. S. Thompson and P. Derr, 'Contra Epstein, Good Explanations Predict', *Journal of Artificial Societies and Social Simulation*, vol. 12, no. 9, 2009, Available: <http://jasss.soc.surrey.ac.uk/12/1/9.html>

[30]

N. Lazar, 'Ockham's Razor', *Wiley Interdisciplinary Reviews: Computational Statistics*, vol. 2, no. 2, pp. 243–246, 2010, doi: 10.1002/wics.75

[31]

George L. W. Perry, 'Modelling and Simulation', in *A companion to environmental geography*, Chichester, U.K.: Wiley-Blackwell, 2009. Available: <https://onlinelibrary.wiley.com/doi/10.1002/9781444305722.ch20>

[32]

E. Winsberg, 'Computer Simulation and the Philosophy of Science', *Philosophy Compass*, vol. 4, no. 5, pp. 835–845, 2009, doi: 10.1111/j.1747-9991.2009.00236.x

[33]

N. Pidgeon and B. Fischhoff, 'The role of social and decision sciences in communicating uncertain climate risks', *Nature Climate Change*, vol. 1, no. 1, pp. 35–41, 2011, doi: 10.1038/nclimate1080

[34]

E. Smith, 'Uncertainty analysis', in Encyclopedia of environmetrics, Chichester: Wiley, 2002.

[35]

W. E. Walker et al., 'Defining uncertainty: a conceptual basis for uncertainty management in model-based decision support', Integrated Assessment, vol. 4, no. 1, pp. 5–17, 2003, Available:
http://journals.sfu.ca.ezproxy.auckland.ac.nz/int_assess/index.php/iaj/article/view/122/79

[36]

D. G. Mayer and D. G. Butler, 'Statistical validation', Ecological Modelling, vol. 68, no. 1–2, pp. 21–32, 1993, doi: 10.1016/0304-3800(93)90105-2. Available:
<https://www.sciencedirect.com/science/article/pii/0304380093901052?via%3Dihub>

[37]

D. Spiegelhalter, M. Pearson, and I. Short, 'Visualizing Uncertainty About the Future', Science, vol. 333, no. 6048, pp. 1393–1400, 2011, doi: 10.1126/science.1191181

[38]

Volker Grimm, Eloy Revilla, Uta Berger, Florian Jeltsch, Wolf M. Mooij, Steven F. Railsback, Hans-Hermann Thulke, Jacob Weiner, Thorsten Wiegand and Donald L. DeAngelis, 'Pattern-Oriented Modeling of Agent-Based Complex Systems: Lessons from Ecology', Science, vol. 310, no. 5750, pp. 987–991, 2005, Available:
<http://www.jstor.org.ezproxy.auckland.ac.nz/stable/3842807>

[39]

Naomi Oreskes, Kristin Shrader-Frechette and Kenneth Belitz, 'Verification, Validation, and Confirmation of Numerical Models in the Earth Sciences', Science, vol. 263, no. 5147, pp. 641–646, 1994, Available: <http://www.jstor.org.ezproxy.auckland.ac.nz/stable/2883078>

[40]

T. M. Lenton and H. T. P. Williams, 'On the origin of planetary-scale tipping points', *Trends in Ecology & Evolution*, vol. 28, no. 7, pp. 380–382, 2013, doi: 10.1016/j.tree.2013.06.001

[41]

J. D. Sterman, 'Learning In and About Complex Systems.', *Reflections*, vol. 1, no. 3, pp. 24–51, 2000, Available: <https://onlinelibrary.wiley.com/doi/abs/10.1002/sdr.4260100214>

[42]

D. L. DeAngelis and W. M. Mooji, 'In praise of mechanistically rich models', in *Models in ecosystem science*, C. D. W. Canham, J. Cole, and W. K. Lauenroth, Eds, Princeton, N.J.: Princeton University Press, 2003, pp. 63–83.

[43]

B. P. Murphy and D. M. J. S. Bowman, 'What controls the distribution of tropical forest and savanna?', *Ecology Letters*, vol. 15, no. 7, pp. 748–758, 2012, doi: 10.1111/j.1461-0248.2012.01771.x

[44]

H. Charles Romesburg, 'Wildlife Science: Gaining Reliable Knowledge', *The Journal of Wildlife Management*, vol. 45, no. 2, pp. 293–313, 1981, Available: <http://www.jstor.org.ezproxy.auckland.ac.nz/stable/3807913>

[45]

D. E. McNamara and B. T. Werner, 'Coupled barrier island-resort model: 1. Emergent instabilities induced by strong human-landscape interactions', *Journal of Geophysical Research*, vol. 113, no. F1, 2008, doi: 10.1029/2007JF000840

[46]

B. Breckling, F. Jopp, and H. Reuter, 'System Analysis and Context Assessment', in *Modelling complex ecological dynamics*, Berlin: Springer, 2010, pp. 43–54. doi: 10.1007/978-3-642-05029-9_4. Available: http://link.springer.com/10.1007/978-3-642-05029-9_4

[47]

R. J. Chorley and B. A. Kennedy, *Physical geography: a systems approach*. London: Prentice-Hall, 1971.

[48]

W. F. Laurance and G. B. Williamson, 'Positive Feedbacks among Forest Fragmentation, Drought, and Climate Change in the Amazon', *Conservation Biology*, vol. 15, no. 6, pp. 1529-1535, 2001, doi: 10.1046/j.1523-1739.2001.01093.x

[49]

G. Marten, 'Environmental Tipping Points: A New Paradigm for Restoring Ecological Security', *Journal of Policy Studies (Japan)*, vol. 20, pp. 75-87, 2005. Available: <http://www.ecotippingpoints.org/resources/publication-journal-of-policy-studies.html>

[50]

N. Castree, A. Rogers, and D. J. Sherman, *Questioning geography: fundamental debates*. Malden, MA: Blackwell Pub, 2005. Available: <https://ebookcentral.proquest.com/lib/auckland/detail.action?docID=243571>

[51]

R. Hilborn and M. Mangel, *The ecological detective: confronting models with data*, vol. 28. Princeton, NJ: Princeton University Press, 1997. Available: <https://ebookcentral.proquest.com/lib/auckland/detail.action?docID=1113396>

[52]

D. O'Sullivan and G. L. W. Perry, *Spatial simulation: exploring pattern and process*. Chichester, West Sussex, U.K.: Wiley-Blackwell, 2013. Available: <http://dx.doi.org/10.1002/9781118527085>

[53]

L. Stefanon, L. Carniello, A. D'Alpaos, and A. Rinaldo, 'Signatures of sea level changes on

tidal geomorphology: Experiments on network incision and retreat', *Geophysical Research Letters*, vol. 39, no. 12, 2012, doi: 10.1029/2012GL051953. Available: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2012GL051953>

[54]

B. van Maanen, G. Coco, K. R. Bryan, and C. T. Friedrichs, 'Modeling the morphodynamic response of tidal embayments to sea-level rise', *Ocean Dynamics*, vol. 63, no. 11–12, pp. 1249–1262, 2013, doi: 10.1007/s10236-013-0649-6. Available: <https://link.springer.com/article/10.1007%2Fs10236-013-0649-6>

[55]

Z. Zhou, M. Olabarrieta, L. Stefanon, A. D'Alpaos, L. Carniello, and G. Coco, 'A comparative study of physical and numerical modeling of tidal network ontogeny', *Journal of Geophysical Research: Earth Surface*, vol. 119, no. 4, pp. 892–912, 2014, doi: 10.1002/2014JF003092

[56]

B. T. Werner, 'Eolian dunes: Computer simulations and attractor interpretation', *Geology*, vol. 23, no. 12, pp. 1107–1110, 1995, doi: 10.1130/0091-7613. Available: <http://geology.geoscienceworld.org.ezproxy.auckland.ac.nz/content/23/12/1107.full.pdf+html>

[57]

V. Schwämmle and H. J. Herrmann, 'Geomorphology: Solitary wave behaviour of sand dunes', *Nature*, vol. 426, no. 6967, pp. 619–620, 2003, doi: 10.1038/426619a. Available: <https://www.nature.com/articles/426619a>

[58]

M. B. Beck, 'Water quality modeling: A review of the analysis of uncertainty', *Water Resources Research*, vol. 23, no. 8, pp. 1393–1442, 1987, doi: 10.1029/WR023i008p01393. Available: <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/WR023i008p01393>

[59]

D. C. SCHNEIDER, 'The Rise of the Concept of Scale in Ecology', *BioScience*, vol. 51, no. 7,

2001, doi: 10.1641/0006-3568(2001)051[0545:TROTCO]2.0.CO;2. Available:
[https://www.jstor.org/stable/10.1641/0006-3568\(2001\)051\[0545:trotco\]2.0.co;2](https://www.jstor.org/stable/10.1641/0006-3568(2001)051[0545:trotco]2.0.co;2)

[60]

M. G. Turner, R. H. Gardner, and R. V. O'Neill, *Landscape ecology in theory and practice: pattern and process*. New York: Springer, 2001. Available:
<https://link.springer.com/book/10.1007%2Fb97434>

[61]

A. F. Zuur, E. N. Ieno, and C. S. Elphick, 'A protocol for data exploration to avoid common statistical problems', *Methods in Ecology and Evolution*, vol. 1, no. 1, pp. 3–14, 2010, doi: 10.1111/j.2041-210X.2009.00001.x

[62]

N. J. Gotelli, *A primer of ecology*, 4th ed. Sunderland, MA: Sinauer Associates, 2008.

[63]

J. Hardisty, D. M. Taylor, and S. E. Metcalfe, *Computerised environmental modelling: a practical introduction using Excel*. Chichester, West Sussex, England: J. Wiley & Sons, 1993.

[64]

A. Quarteroni, 'Mathematical models in science and engineering', *Notices of the AMS*, vol. 56, no. 1, pp. 10–19, 2009, Available:
<https://www.ams.org/notices/200901/tx090100010p.pdf>

[65]

R. F. Costantino, R. A. Desharnais, J. M. Cushing and Brian Dennis, 'Chaotic Dynamics in an Insect Population', *Science*, vol. 275, no. 5298, pp. 389–391, 1997, Available:
<http://www.jstor.org.ezproxy.auckland.ac.nz/stable/2891006>

[66]

Edward N. Lorenz, 'Deterministic Nonperiodic Flow', *Journal of Atmospheric Science*, vol. 20, pp. 130–141, 1963, doi: 10.1175/1520-0469. Available: <http://journals.ametsoc.org/doi/abs/10.1175/1520-0469%281963%29020%3C0130%3ADNF%3E2.0.CO%3B2>

[67]

M. Ahmed and J. Ogden, 'Population dynamics of the emergent conifer(D. Don) Lindl. (Kauri) in New Zealand I. Population structures and tree growth rates in mature stands', *New Zealand Journal of Botany*, vol. 25, no. 2, pp. 217–229, 1987, doi: 10.1080/0028825X.1987.10410068. Available: <https://www.tandfonline.com/doi/abs/10.1080/0028825X.1987.10410068>

[68]

H. F. Stockdon, R. A. Holman, P. A. Howd, and A. H. Sallenger, 'Empirical parameterization of setup, swash, and runup', *Coastal Engineering*, vol. 53, no. 7, pp. 573–588, 2006, doi: 10.1016/j.coastaleng.2005.12.005

[69]

A. F. Zuur, E. N. Ieno, and G. M. Smith, *Analysing ecological data*, vol. Statistics for biology and health. New York: Springer, 2007. Available: <https://link.springer.com/book/10.1007%2F978-0-387-45972-1>

[70]

Robert L. Axtell, Joshua M. Epstein, Jeffrey S. Dean, George J. Gumerman, Alan C. Swedlund, Jason Harburger, Shubha Chakravarty, Ross Hammond, Jon Parker and Miles Parker, 'Population Growth and Collapse in a Multiagent Model of the Kayenta Anasazi in Long House Valley', *Proceedings of the National Academy of Sciences of the United States of America*, vol. 99, no. 10, pp. 7275–7279, 2002, Available: <http://www.jstor.org.ezproxy.auckland.ac.nz/stable/3057853>

[71]

Jeffrey S. Dean, Robert C. Euler, George J. Gumerman, Fred Plog, Richard H. Hevly and Thor N. V. Karlstrom, 'Human Behavior, Demography, and Paleoenvironment on the Colorado Plateaus', *American Antiquity*, vol. 50, no. 3, pp. 537–554, 1985, Available: http://www.jstor.org.ezproxy.auckland.ac.nz/stable/280320?sid=primo&origin=crossref&seq=1#page_scan_tab_contents

[72]

J. M. Diamond, 'Archaeology: Life with the artificial Anasazi', *Nature*, vol. 419, no. 6907, pp. 567–569, 2002, doi: 10.1038/419567a

[73]

F. Jeltsch, M. S. Muller, V. Grimm, C. Wissel and R. Brandl, 'Pattern Formation Triggered by Rare Events: Lessons from the Spread of Rabies', *Proceedings: Biological Sciences*, vol. 264, no. 1381, pp. 495–503, 1997, Available: <http://www.jstor.org.ezproxy.auckland.ac.nz/stable/50537>

[74]

S. A. Levin, 'Mathematical and Computational Challenges in Population Biology and Ecosystems Science', *Science*, vol. 275, no. 5298, pp. 334–343, 1997, doi: 10.1126/science.275.5298.334

[75]

M. Drechsler, 'Sensitivity analysis of complex models', *Biological Conservation*, vol. 86, no. 3, pp. 401–412, 1998, doi: 10.1016/S0006-3207(98)00021-4

[76]

J. W. Haefner and SpringerLink (Online service), *Modeling biological systems: principles and applications*, 2nd ed. New York: Springer, 2005. Available: <https://link.springer.com/book/10.1007%2Fb106568>

[77]

M. Ruckelshaus, C. Hartway, and P. Kareiva, 'Assessing the Data Requirements of Spatially Explicit Dispersal Models', *Conservation Biology*, vol. 11, no. 6, pp. 1298–1306, 1997, doi: 10.1046/j.1523-1739.1997.96151.x. Available: <https://conbio.onlinelibrary.wiley.com/doi/full/10.1046/j.1523-1739.1997.96151.x>

[78]

John W. Fitzpatrick, Martjan Lammertink, M. David Luneau Jr., Tim W. Gallagher, Bobby R. Harrison, Gene M. Sparling, Kenneth V. Rosenberg, Ronald W. Rohrbaugh, Elliott C. H. Swarthout, Peter H. Wrege, Sara Barker Swarthout, Marc S. Dantzker, Russell A. Charif, Timothy R. Barksdale, J. V. Remsen Jr., Scott D. Simon and Douglas Zollner, 'Ivory-Billed Woodpecker (*Campephilus principalis*) Persists in Continental North America', *Science*, vol. 308, no. 5727, pp. 1460–1462, 2005, Available: <https://www.science.org/doi/10.1126/science.1114103>

[79]

Joel P. W. Pitt, Sue P. Worner and Andrew V. Suarez, 'Predicting Argentine Ant Spread over the Heterogeneous Landscape Using a Spatially Explicit Stochastic Model', *Ecological Applications*, vol. 19, no. 5, pp. 1176–1186, 2009, Available: <https://www.jstor.org/stable/40347260>

[80]

Helen M. Regan, Mark Colyvan and Mark A. Burgman, 'A Taxonomy and Treatment of Uncertainty for Ecology and Conservation Biology', *Ecological Applications*, vol. 12, no. 2, pp. 618–628, 2002, Available: <http://www.jstor.org.ezproxy.auckland.ac.nz/stable/3060967>

[81]

D. A. Sibley, 'Comment on "Ivory-billed Woodpecker (*Campephilus principalis*) Persists in Continental North America"', *Science*, vol. 311, no. 5767, pp. 1555a–1555a, 2006, doi: 10.1126/science.1122778. Available: <https://www.science.org/doi/10.1126/science.1122778>

[82]

Venette, Robert. C., Kriticos, Darren J. Magarey, Roger D. Koch, Frank H. Baker, Richard H. A., 'Pest Risk Maps for Invasive Alien Species: A Roadmap for Improvement', *Bioscience*, no. 5, pp. 349–362, Available: <https://link.gale.com/apps/doc/A226474370/BIC?u=learn&sid=summon&xid=e2365909>

[83]

W. E. Walker et al., 'Defining uncertainty: a conceptual basis for uncertainty management in model-based decision support', *Integrated Assessment*, vol. 4, no. 1, pp. 5–17, 2003, Available:

http://journals.sfu.ca.ezproxy.auckland.ac.nz/int_assess/index.php/iaj/article/view/122/79

[84]

Ran Nathan, Uriel N. Safriel and Imanuel Noy-Meir, 'Field Validation and Sensitivity Analysis of a Mechanistic Model for Tree Seed Dispersal by Wind', *Ecology*, vol. 82, no. 2, pp. 374–388, 2001, Available: <https://www.jstor.org/stable/2679866>

[85]

T. Svoray and R. Nathan, 'Spatially and temporally realistic and dynamic modelling for effects of water, temperature and light on tree population spread', *Proceedings of the 7th International Conference on GeoComputation*, 2003. Available: https://web.archive.org/web/20220120044142/http://www.geocomputation.org/2003/Papers/Svoray_Paper.pdf

[86]

D. B. Botkin and ProQuest (Firm), *Forest dynamics: an ecological model*. Oxford: Oxford University Press, 1993. Available: <https://ebookcentral.proquest.com/lib/auckland/detail.action?docID=3051918>

[87]

J.-C. Castella, T. N. Trung, and S. Boissau, 'Ecology and Society: Participatory Simulation of Land-Use Changes in the Northern Mountains of Vietnam: the Combined Use of an Agent-Based Model, a Role-Playing Game, and a Geographic Information System', *Ecology and Society*, vol. 10, no. 1, 2005, Available: <http://www.ecologyandsociety.org/vol10/iss1/art27/>

[88]

Volker Grimm, Eloy Revilla, Uta Berger, Florian Jeltsch, Wolf M. Mooij, Steven F. Railsback, Hans-Hermann Thulke, Jacob Weiner, Thorsten Wiegand and Donald L. DeAngelis, 'Pattern-Oriented Modeling of Agent-Based Complex Systems: Lessons from Ecology', *Science*, vol. 310, no. 5750, pp. 987–991, 2005, Available: <http://www.jstor.org.ezproxy.auckland.ac.nz/stable/3842807>

[89]

J. Millington, R. Romero-Calcerrada, J. Wrainwright, and G. Perry, 'An Agent-Based Model of Mediterranean Agricultural Land-Use/Cover Change for Examining Wildfire Risk', *Journal of Artificial Societies and Social Simulation*, vol. 11, no. 4, 2008, Available: <http://jasss.soc.surrey.ac.uk/11/4/4.html>

[90]

K. A. Richardson, 'On the limits of bottom-up computer simulation: towards a nonlinear modeling culture', in *36th Annual Hawaii International Conference on System Sciences*, 2003. Proceedings of the, IEEE, 2003. doi: 10.1109/HICSS.2003.1174227. Available: <https://ieeexplore.ieee.org/document/1174227?arnumber=1174227&tag=1>

[91]

Thorsten Wiegand, Florian Jeltsch, Ilkka Hanski and Volker Grimm, 'Using Pattern-Oriented Modeling for Revealing Hidden Information: A Key for Reconciling Ecological Theory and Application', *Oikos*, vol. 100, no. 2, pp. 209–222, 2003, Available: <http://www.jstor.org.ezproxy.auckland.ac.nz/stable/3548178>

[92]

R. J. Dawson et al., 'Integrated analysis of risks of coastal flooding and cliff erosion under scenarios of long term change', *Climatic Change*, vol. 95, no. 1–2, pp. 249–288, 2009, doi: 10.1007/s10584-008-9532-8

[93]

M. E. Dickson, M. J. A. Walkden, and J. W. Hall, 'Systemic impacts of climate change on an eroding coastal region over the twenty-first century', *Climatic Change*, vol. 84, no. 2, pp. 141–166, 2007, doi: 10.1007/s10584-006-9200-9

[94]

A. Ashton, A. B. Murray, and O. Arnault, 'Formation of coastline features by large-scale instabilities induced by high-angle waves', *Nature*, vol. 414, no. 6861, pp. 296–300, 2001, doi: 10.1038/35104541

[95]

A. D. Ashton and A. B. Murray, 'High-angle wave instability and emergent shoreline shapes:

1. Modeling of sand waves, flying spits, and capes', *Journal of Geophysical Research*, vol. 111, no. F4, 2006, doi: 10.1029/2005JF000422

[96]

B. van Maanen, G. Coco, and K. R. Bryan, 'On the ecogeomorphological feedbacks that control tidal channel network evolution in a sandy mangrove setting', in *Proceedings of the Royal Society A*, 2015. Available:
<https://royalsocietypublishing.org/doi/pdf/10.1098/rspa.2015.0115>

[97]

A. B. Murray, G. Coco, and E. B. Goldstein, 'Cause and effect in geomorphic systems: Complex systems perspectives', *Geomorphology*, vol. 214, pp. 1–9, 2014, doi: 10.1016/j.geomorph.2014.03.001. Available:
<https://www.sciencedirect.com/science/article/pii/S0169555X14001135?via%3Dihub>

[98]

G. Coco and A. B. Murray, 'Patterns in the sand: From forcing templates to self-organization', *Geomorphology*, vol. 91, no. 3–4, pp. 271–290, 2007, doi: 10.1016/j.geomorph.2007.04.023. Available:
<https://www.sciencedirect.com/science/article/pii/S0169555X07003819?via%3Dihub>

[99]

'Banded vegetation: development under uniform rainfall from a simple cellular automaton model', Available:
<http://link.springer.com.ezproxy.auckland.ac.nz/article/10.1023/A:1009725732740>