



Landscapes and Policy Hub Publications 2011-2015

(59 published at 25 August 2016, 32 hub authors in **bold**)

Refereed Journal Articles

- Allen KA, **Lee G**, Ling F, Allie S, Willis M and Baker PJ (2015) Palaeohydrology in climatological context: Developing the case for use of remote predictors in Australian streamflow reconstructions. *Applied Geography* **64** 132-152
- Bassett OD, **Prior LD**, Slijkerman CM, Jamieson D & **Bowman DMLS** (2015) Aerial sowing stopped the loss of alpine ash (*Eucalyptus delegatensis*) forests burnt by three short-interval fires in the Alpine National Park, Victoria, Australia. *Forest Ecology and Management*, 342: 39–48.
<http://www.sciencedirect.com/science/article/pii/S0378112715000109>
- Beeton NJ**, McMahon CR, **Williamson GJ**, Potts J, Bloomer J, Bester MN, Forbes LK and **Johnson CN** (2015) Using the Spatial Population Abundance Dynamics Engine for conservation management. *Methods in Ecology and Evolution* 6: 1407–1416. doi: 10.1111/2041-210X.12434
- Bowman DMJS**, **Murphy BP**, **Neyland DLJ**, **Williamson GJ** & **Prior LD** (2014) Abrupt fire regime change may cause landscape-wide loss of mature obligate seeder forests. *Global Change Biology*, 20: 1008-15.
<http://onlinelibrary.wiley.com/doi/10.1111/gcb.12433/full>
- Bowman DMJS**, Perry GLW & Marston JB (2015) Feedbacks and landscape-level vegetation dynamics. *Trends in Ecology and Evolution* 1922 1-6.
<http://www.sciencedirect.com/science/article/pii/S0169534715000646>
- Campbell CA, **Lefroy EC**, Caddy-Retalic S, Bax N, Doherty PJ, Douglas MM, Johnson D, Possingham HP, Specht A, Tarte D & West J (2015) Designing Environmental Research for Impact. *Science of the Total Environment*. In press
<http://www.sciencedirect.com/science/article/pii/S0048969714016830>
- Clement S**, **Moore SA** & **Lockwood M** (2015) Authority, responsibility and process in Australian biodiversity policy. *Environmental and Planning Law Journal*. 32(2): 93-114.
<http://ecite.utas.edu.au/99142>
- Clement, S., Moore, S. A., Lockwood, M., & Mitchell, M.** (2015). Using insights from pragmatism to develop reforms that strengthen institutional competence for conserving biodiversity. *Policy Sciences*. <http://dx.doi.org/10.1007/s11077-015-9222-0>
- Clement, S, Moore, SA, Lockwood, M,** & Morrison, TH (2015) A diagnostic framework for biodiversity conservation institutions. *Pacific Conservation Biology*, 21(4): 277290.
<http://dx.doi.org/10.1071/PC15032>
- Corney S, **Grose M**, Bennett JC, White JC, Katzfey J, McGregor J, Holz G & **Bindoff NL** (2013) Performance of downscaled regional climate simulations using a variable-resolution regional climate model: Tasmania as a test case. *Journal of Geophysical Research: Atmosphere*. 118(21): 11936-11950. <http://onlinelibrary.wiley.com/doi/10.1002/2013JD020087/full>
- Fletcher MS, Wolfe BB, Whitlock C, Pompeani DP, Heijnis H, Haberle SG, Gadd PS & **Bowman DMJS** (2014) The legacy of mid-Holocene fire on a Tasmanian montane landscape. *Journal of Biogeography*. 41: 476-488.
<http://onlinelibrary.wiley.com/doi/10.1111/jbi.12229/full>
- Fox-Hughes P**, **Harris RMB**, **Lee G**, **Grose M** & **Bindoff N** (2014) Future fire danger climatology for Tasmania, Australia, using a dynamically downscaled regional climate model. *International Journal of Wildland Fire*. 23(3): 309-321.
<http://www.publish.csiro.au/?paper=WF13126>
- Gordon AL Bastin L, Langford WT, **Lechner AM** & Bekessy SA (2013) Simulating the value of collaboration in multi-actor conservation planning. *Ecological Modelling*. 240: 19-25.
<http://www.sciencedirect.com/science/article/pii/S0304380012003341>

- Gould SF, Beeton NJ, Harris RMB, Hutchinson MF, Lechner AM, Porfirio LL & Mackey BG** (2014) A tool for simulating and communicating uncertainty when modelling species distributions under future climates. *Ecology and Evolution*. 4(24): 4798-4811.
<http://onlinelibrary.wiley.com/doi/10.1002/ece3.1319/full>
- Gould SF, Hugh S, Porfirio LL & Mackey BG** (2014) Ecosystems greenspots pass the first test. *Landscape Ecology*. 30(1): 141-151.
<http://link.springer.com/article/10.1007/s10980-014-0112-1/fulltext.html>
- Grose MR, Corney SP, Katzfey JJ, Bennett JC, Holz GK, White CJ & Bindoff NL** (2013) A regional response in mean westerly circulation and rainfall to projected climate warming over Tasmania, Australia. *Climate Dynamics*. 40(7-8): 2035-2048. <http://link.springer.com/article/10.1007/s00382-012-1405-1>
- Grose MR, Pook MJ, McIntosh PC, Risbey JS & Bindoff NL** (2012) The simulation of cutoff lows in regional climate models: reliability and projected trends. *Climate Dynamics*. 39: 445-459.
<http://link.springer.com/article/10.1007/s00382-012-1368-2>
- Grose MR, Fox-Hughes P, Harris RMB & Bindoff NL** (2014) Changes to the drivers of fire weather with a warming climate – a case study of southeast Tasmania. *Climatic Change*. 124(1-2):255–269.
<http://link.springer.com/article/10.1007/s10584-014-1070-y>
- Harris RMB, Carter O, Gilfedder L, Porfirio LL, Lee G & Bindoff N** (2015) Noah’s Ark conservation will not preserve threatened ecological communities under climate change. *PLoS ONE* (Accepted 15 March 2015)
- Harris RMB, Grose M, Lee G, Bindoff N, Porfirio L & Fox-Hughes P** (2014) Climate projections for ecologists. *Wiley Interdisciplinary Reviews: Climate Change*. 5: 621-637.
<http://onlinelibrary.wiley.com/doi/10.1002/wcc.291/full>
- Harris RMB, Porfirio LL, Hugh S, Lee G, Bindoff NL, Mackey B & Beeton NJ** (2013) To Be Or Not to Be? Variable selection can change the projected fate of a threatened species under future climate. *Ecological Management & Restoration*. 14: 230–234.
<http://onlinelibrary.wiley.com/doi/10.1111/emr.12055/full>
- Iftekhar MS and Tisdell JG** (2015) An Agent Based Analysis of Combinatorial Bidding for Spatially Targeted Multi-Objective Environmental Programs. *Environmental and Resource Economics* Published online 14 February 2015 DOI 10.1007/s10640-015-9882-4
- Iftekhar MS & Tisdell JG** (2014) Wildlife corridor market design: An experimental analysis of the impact of project selection criteria and bidding flexibility. *Ecological Economics*. 104: 50–60.
<http://www.sciencedirect.com/science/article/pii/S0921800914001268>
- Iftekhar MS, Hailu A & Lindner RK** (2012) Combinatorial Auction Designs for Biodiversity Conservation. *Society & Natural Resources: An International Journal*, 25(10): 965-979.
<http://www.tandfonline.com/doi/abs/10.1080/08941920.2011.644393#.VSXolvnLfsZ>
- Iftekhar MS, Hailu A & Lindner RK** (2012) Combinatorial auctions for procuring agri-environmental services: A review of some design issues. *Australasian Journal of Environmental Management*. 19(2): 79 - 90.
http://www.tandfonline.com/doi/abs/10.1080/14486563.2012.678573#.VSXo_vnLfsY
- Iftekhar MS, Hailu A & Lindner RK** (2012) The effect of bidder heterogeneity on combinatorial conservation auction designs, *Environmental and Resource Economics*. 53(1): 137-157.
<http://link.springer.com/article/10.1007/s10640-012-9553-7>
- Iftekhar MS, Tisdell J & Gilfedder L** (2014) Private lands for biodiversity conservation: Review of conservation covenanting programs in Tasmania, Australia. *Biological Conservation*. 169: 176-184. [3] <http://www.sciencedirect.com/science/article/pii/S0006320713003686>
- Iftekhar MS, Tisdell JG & Connor JD** (2013) Effect of competition on environmental water buyback auction. *Agricultural Water Management*. 127: 59 - 73.
<http://www.sciencedirect.com/science/article/pii/S0378377413001340>



- Lechner AM**, Sprod D, Carter O, **Lefroy EC** (2016) Characterising landscape connectivity for conservation planning using a dispersal guild approach. *Landscape Ecology*. Published online 23 August 2016. DOI 10.1007/s10980-016-0431-5
<http://link.springer.com/article/10.1007/s10980-016-0431-5>
- Lechner AM**, **Harris RMB**, Doerr V, Doerr E, Drielsma M, **Lefroy EC** (2015) From static connectivity modelling to scenario-based planning at local and regional scales. *Journal for Nature Conservation*. 28: 78–88. <http://dx.doi.org/10.1016/j.jnc.2015.09.003>
<http://www.sciencedirect.com/science/article/pii/S1617138115300170>
- Lechner AM**, **Harris RMB**, Doerr V, Doerr E, **Lefroy EC** (2015) A framework for multi-scale connectivity modelling incorporating fine-scale dispersal behaviour. *Landscape and Urban Planning* 141:11-23 doi: 10.1016/j.landurbplan.2015.04.008
<http://www.sciencedirect.com/science/article/pii/S0169204615000845>
- Lechner AM**, Brown G & **Raymond CM** (2015) Modeling the impact of future development and public conservation orientation on landscape connectivity for conservation planning. *Landscape Ecology*. 30(4): 699-713. <http://link.springer.com/article/10.1007/s10980-015-0153-0>
- Lechner AM**, Jones SD, Langford WT & Bekessy SA (2012) Are landscape ecologists addressing uncertainty in their remote sensing data? *Landscape Ecology*. 27(9): 1249-126.
<http://link.springer.com/article/10.1007%2Fs10980-012-9791-7>
- Lechner AM**, **Raymond CM**, Adams VM, Polyakov M, Gordon A, Rhodes JR, Mills M, Stein A, Ives CD and **Lefroy EC** (2014) Characterizing Spatial Uncertainty when Integrating Social Data in Conservation Planning . *Conservation Biology*. 28(6): 1497–1511.
<http://onlinelibrary.wiley.com/doi/10.1111/cobi.12409/abstract>
- Lechner AM**, Reinke KJ, Wang Y & L Bastin (2013) Interactions between landcover pattern and geospatial processing methods: Effects on landscape metrics and classification accuracy. *Ecological Complexity*. 15: 71-82
<http://www.sciencedirect.com/science/article/pii/S1476945X13000342>
- Lefroy EC** (2013) Land use intensification: effects on agriculture, biodiversity and ecological processes. *Australasian Journal of Environmental Management*, 20:3, 260-262, doi: 10.1080/14486563.2013.834543. <http://ecite.utas.edu.au/89926>
- Lefroy EC** (2014) Nature and farming: Sustaining biodiversity in agricultural landscapes [Book Review] *Pacific Conservation Biology* 20 (4) 405-406.
<http://search.informit.com.au/documentSummary;dn=954446502898983;res=IELNZC>
- Lockwood M**, **Mitchell M**, **Moore SA** & **Clement S** (2014) Biodiversity governance and social-ecological system dynamics: transformation in the Australian Alps. *Ecology and Society* 19(2): 13. [0] <http://www.ecologyandsociety.org/vol19/iss2/art13/>
- Mackey B**, **Jacobs P**, **Porfirio L** and **Hugh S** (2016) Natural icons and threats: an approach to landscape scale conservation planning. *Parks* 22(1).
- Mackey B**, **Jacobs P**, and **Hugh S** (2015) Classifying and mapping the Australian Alps' Native Vegetation. *Cunninghamia* 15: 185-199 doi:10.7751/cunninghamia.2015.15.010
https://d1nu2whazfqai.cloudfront.net//RoyalBotanicGarden/media/RBG/Science/Cunninghamia/Volume%2015%20-%202015/BGD0329_Cunninghamia_Mackey_v3.pdf
- Magierowski RH**, Read SM, Carter SJB, Warfe DM, Cook LS, **Lefroy EC** & **Davies PE** (2015) Inferring Landscape-Scale Land-Use Impacts on Rivers Using Data from Mesocosm Experiments and Artificial Neural Networks. *PLoS ONE* 10(3): e0120901.
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0120901>
- Mitchell M**, **Lockwood M**, **Moore SA**, **Clement S**, **Gilfedder L** and **Anderson G** (2015) Using scenario planning to assess governance reforms for enhancing biodiversity outcomes *Land Use Policy* 50 (2016) 559–572. <http://dx.doi.org/10.1016/j.landusepol.2015.10.020>



- Mitchell M, Lockwood M, Moore S & Clement S** (2015) Scenario analysis for biodiversity conservation: a social-ecological system approach in the Australian Alps. *Journal of Environment Management*. 150: 69-80. <http://www.sciencedirect.com/science/article/pii/S0301479714005398>
- Mitchell M, Lockwood M, Moore SA & Clement S** (2015) Incorporating governance influences into social-ecological system models: a case study involving biodiversity conservation. *Journal of Environmental Planning and Management*. (online 4/11/2014) DOI: 10.1080/09640568.2014.967387 [1] <http://www.tandfonline.com/doi/abs/10.1080/09640568.2014.967387#.V5XuJPNLfsY>
- Moon K, Adams V, Januchowski-Hartley S, Mills M, Polyakov M, Knight A, Biggs D, Game ET & **Raymond CM** (2014) A multidisciplinary conceptualization of conservation opportunity. *Conservation Biology*. 28(6): 1484-96. <http://onlinelibrary.wiley.com/doi/10.1111/cobi.12408/full>
- Porfirio LL, Harris RMB, Lefroy EC, Hugh S, Gould SF, Lee G, Bindoff NL & Mackey BG** (2015) Improving the Use of Species Distribution Models in Conservation Planning and Management under Climate Change. *PLoS ONE*. 9(11): e113749. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0113749#pone-0113749-g004>
- Porfirio LL, Harris RMB, Stojanovic D, Webb MH and Mackey BG** (2016) Projected direct and indirect effects of climate change on the Swift Parrot, an endangered migratory species. *Emu* published online 24 May 2016 <http://dx.doi.org/10.1071/MU15094>
- Potts J, **Beeton N, Bowman D, Williamson G, Lefroy E & Johnson C** (2014) Predicting the future range and abundance of fallow deer in Tasmania, Australia. *Wildlife Research* 41: 633–640 <http://dx.doi.org/10.1071/WR13206>
- Prior LD & Bowman DMJS** (2014) Big eucalypts grow more slowly in a warm climate: evidence of an interaction between tree size and temperature. *Global Change Biology*. 20: 2793–99. <http://onlinelibrary.wiley.com/doi/10.1111/gcb.12540/full>
- Prior LD, Williamson GJ and Bowman DMJS** (2016) Impact of high-severity fire in a Tasmanian dry eucalypt forest. *Australian Journal of Botany* 64: 193–205. <http://dx.doi.org/10.1071/BT15259>
- Raymond CM & Robinson GM** (2012) Factors affecting rural landholders' adaptation to climate change: Insights from formal institutions and communities of practice. *Global Environmental Change*. 23(1): 103–114. <http://www.sciencedirect.com/science/article/pii/S0959378012001355>
- Romanin LM, Hopf F, Haberle SG, and Bowman DMJS** (2016) Fire regime and vegetation change in the transition from Aboriginal to European land management in a Tasmanian eucalypt savanna. *Australian Journal of Botany*. Published online 2 August 2016. <http://dx.doi.org/10.1071/BT16032>
- Tisdell JG** (2011) Water Markets in Australia: An experimental analysis of alternative market mechanisms. *Australian Journal of Agricultural and Resource Economics*. 55 (4): 500-517. <http://onlinelibrary.wiley.com/doi/10.1111/j.1467-8489.2011.00550.x/full>
- Warfe DM and Tisdell JG** (2016) A bioeconomic analysis of conserving freshwater values in an agricultural landscape. *Marine and Freshwater Research*. Published online 27 January 2016. <http://dx.doi.org/10.1071/MF15132>
- White CJ, McInnes KL, Cechet RP, Corney SP, **Grose MR, Holz GK, Katzfey JJ & Bindoff NL** (2013) On regional dynamical downscaling for the assessment and projection of temperature and precipitation extremes across Tasmania, Australia. *Climate Dynamics*. 41(11-12): 3145-3165. <http://link.springer.com/article/10.1007/s00382-013-1718-8>
- Whitehead AL, Kujala H, Ives C, Gordon A, Lentini PE, Wintle BA, Nicholson E & **Raymond CM** (2014) Integrating biological and social values when prioritizing for biodiversity conservation, *Conservation Biology*. 28(4): 992-1003. <http://onlinelibrary.wiley.com/doi/10.1111/cobi.12257/full>
- Williamson GJ, Price OF, Henderson SB & Bowman DMJS** (2012) Satellite-based comparison of fire intensity and smoke plumes from prescribed fires and wildfires in south-eastern Australia. *International Journal of Wildland Fire*. 22(2): 121-129. <http://www.publish.csiro.au/paper/WF1165>
- Williamson GJ, Murphy BP & Bowman DMJS** (2013) Cattle grazing does not reduce fire severity in eucalypt forests and woodlands of the Australian Alps. *Austral Ecology*. 39(4): 462-468. <http://onlinelibrary.wiley.com/doi/10.1111/aec.12104/full>



Williamson GJ, Prior LD, Grose MR, Harris RMB & Bowman DMJS (2014) Projecting canopy cover change in Tasmanian eucalypt forests using dynamically downscaled regional climate models. *Regional Environmental Change*. 14(4): 1373-1386.
<http://link.springer.com/article/10.1007%2Fs10113-013-0577-5>