

Publications for Ayesha Tulloch

2019

Tulloch, A., Auerbach, N., Avery-Gomm, S., Dickman, C., Fisher, D., Grantham, H., Holden, M., Lavery, T., Leseberg, N., O'Connor, J., Wardle, G., et al (2019). Reply to 'Consider species specialism when publishing datasets' and 'Decision trees for data publishing may exacerbate conservation conflict'. *Nature Ecology and Evolution*, 3(3), 320-321. [More Information]

2018

Tulloch, A., Auerbach, N., Avery-Gomm, S., Bayraktarov, E., Butterfield, N., Dickman, C., Ehmke, G., Fisher, D., Grantham, H., Holden, M., Wardle, G., et al (2018). A decision tree for assessing the risks and benefits of publishing biodiversity data. *Nature Ecology and Evolution*, 2(8), 1209-1217. [More Information]

Crowther, M., Tulloch, A., Letnic, M., Greenville, A., Dickman, C. (2018). Interactions between wildfire and drought drive population responses of mammals in coastal woodlands. *Journal of Mammalogy*, 99(2), 416-427. [More Information]

Pettorelli, N., Schulte to Buhne, H., Tulloch, A., Dubois, G., Macinnis-Ng, C., Queiros, A., Keith, D., Wegmann, M., Schrodt, F., et al (2018). Satellite remote sensing of ecosystem functions: opportunities, challenges and way forward. *Remote Sensing in Ecology and Conservation*, 4(2), 71-93. [More Information]

Tulloch, A., Chades, I., Lindenmayer, D. (2018). Species co-occurrence analysis predicts management outcomes for multiple threats. *Nature Ecology and Evolution*, 2(3), 465-474. [More Information]

Kay, G., Tulloch, A., Barton, P., Cunningham, S., Driscoll, D., Lindenmayer, D. (2018). Species co-occurrence networks show reptile community reorganization under agricultural transformation. *Ecography*, 41(1), 113-125. [More Information]

Watson, J., Evans, T., Venter, O., Williams, B., Tulloch, A., Stewart, C., Thompson, I., Ray, J., Murray, K., et al (2018). The exceptional value of intact forest ecosystems. *Nature Ecology and Evolution*, 2(4), 599-610. [More Information]

Tulloch, A., McDonald, J., Cosier, P., Sbrocchi, C., Stein, J., Lindenmayer, D., Possingham, H. (2018). Using ideal distributions of the time since habitat was disturbed to build metrics for evaluating landscape condition. *Ecological Applications*, 28(3), 709-720. [More Information]

2017

Villasenor, N., Tulloch, A., Driscoll, D., Gibbons, P., Lindenmayer, D. (2017). Compact development minimizes the

impacts of urban growth on native mammals. *Journal of Applied Ecology*, 54(3), 794-804. [More Information]

Kay, G., Mortelliti, A., Tulloch, A., Barton, P., Florance, D., Cunningham, S., Lindenmayer, D. (2017). Effects of past and present livestock grazing on herpetofauna in a landscape-scale experiment. *Conservation Biology*, 31(2), 446-458. [More Information]

Westgate, M., Tulloch, A., Barton, P., Pierson, J., Lindenmayer, D. (2017). Optimal taxonomic groups for biodiversity assessment: a meta-analytic approach. *Ecography*, 40(4), 539-548. [More Information]

Runge, C., Tulloch, A., Gordon, A., Rhodes, J. (2017). Quantifying the conservation gains from shared access to linear infrastructure. *Conservation Biology*, 31(6), 1428-1438. [More Information]

Tulloch, A., Nicol, S., Bunnefeld, N. (2017). Quantifying the expected value of uncertain management choices for over-abundant Greylag Geese. *Biological Conservation*, 214, 147-155. [More Information]

Webb, M., Terauds, A., Tulloch, A., Bell, P., Stojanovic, D., Heinsohn, R. (2017). The importance of incorporating functional habitats into conservation planning for highly mobile species in dynamic systems. *Conservation Biology*, 31(5), 1018-1028. [More Information]

Tulloch, V., Klein, C., Jupiter, S., Tulloch, A., Roelfsema, C., Possingham, H. (2017). Trade-offs between data resolution, accuracy, and cost when choosing information to plan reserves for coral reef ecosystems. *Journal of Environmental Management*, 188, 108-119. [More Information]

Karimi, A., Tulloch, A., Brown, G., Hockings, M. (2017). Understanding the effects of different social data on selecting priority conservation areas. *Conservation Biology*, 31(6), 1439-1449. [More Information]

2016

Evans, M., Tulloch, A., Law, E., Raiter, K., Possingham, H., Wilson, K. (2016). Better planning outcomes requires clear consideration of costs, condition and conservation benefits, and access to the best available data: Reply to Gosper et al., 2016. *Biological Conservation*, 200, 242-243. [More Information]

Tulloch, A., Sutcliffe, P., Naujokaitis-Lewis, I., Tingley, R., Brotons, L., Ferraz, K., Possingham, H., Guisan, A., Rhodes, J. (2016). Conservation planners tend to ignore improved accuracy of modelled species distributions to focus on multiple threats and ecological processes. *Biological Conservation*, 199, 157-171. [More Information]

<http://dx.doi.org/10.1016/j.biocon.2016.04.023>>[More Information]

Kubasiewicz, L., Bunnefeld, N., Tulloch, A., Quine, C., Park, K. (2016). Diversionary feeding: an effective management strategy for conservation conflict? *Biodiversity and Conservation*, 25(1), 1-22. [More Information]

Lindenmayer, D., Candy, S., MacGregor, C., Banks, S., Westgate, M., Ikin, K., Pierson, J., Tulloch, A., Barton, P. (2016). Do temporal changes in vegetation structure additional to time since fire predict changes in bird occurrence? *Ecological Applications*, 26(7), 2267-2279. [More Information]

Tulloch, A., Chades, I., Dujardin, Y., Westgate, M., Lane, P., Lindenmayer, D. (2016). Dynamic species co-occurrence networks require dynamic biodiversity surrogates. *Ecography*, 39(12), 1185-1196. [More Information]

Ikin, K., Tulloch, A., Gibbons, P., Ansell, D., Seddon, J., Lindenmayer, D. (2016). Evaluating complementary networks of restoration plantings for landscape-scale occurrence of temporally dynamic species. *Conservation Biology*, 30(5), 1027-1037. [More Information]

Di Fonzo, M., Possingham, H., Probert, W., Bennett, J., Joseph, L., Tulloch, A., O'Connor, S., Densem, J., Maloney, R. (2016). Evaluating Trade-Offs between Target Persistence Levels and Numbers of Species Conserved. *Conservation Letters*, 9(1), 51-57. [More Information]

Hammill, E., Tulloch, A., Possingham, H., Strange, N., Wilson, K. (2016). Factoring attitudes towards armed conflict risk into selection of protected areas for conservation. *Nature Communications*, 7, 1-9. [More Information]

Tulloch, A., Pichancourt, J., Gosper, C., Sanders, A., Chades, I. (2016). Fire management strategies to maintain species population processes in a fragmented landscape of fire-interval extremes. *Ecological Applications*, 26(7), 2175-2189. [More Information]

Runge, C., Tulloch, A., Possingham, H., Tulloch, V., Fuller, R. (2016). Incorporating dynamic distributions into spatial prioritization. *Diversity and Distributions*, 22(3), 332-343. [More Information]

Runge, C., Tulloch, A. (2016). Solving problems of conservation inadequacy for nomadic birds. *Australian Zoologist*, 39(2), 280-295. [More Information]

Mortelliti, A., Ikin, K., Tulloch, A., Cunningham, R., Stein, J., Michael, D., Lindenmayer, D. (2016). Surviving with a resident despot: Do revegetated patches act as refuges from the effects of the noisy miner (*Manorina melanocephala*) in a highly fragmented landscape? *Diversity and Distributions*, 22(7), 770-782. [More Information]

Hunter, M., Westgate, M., Barton, P., Calhoun, A., Pierson, J., Tulloch, A., Beger, M., Branquinho, C., Caro, T., et al (2016). Two roles for ecological surrogacy: Indicator surrogates and

management surrogates. *Ecological Indicators*, 63, 121-125. [More Information]

Tulloch, A., Barnes, M., Ringma, J., Fuller, R., Watson, J. (2016). Understanding the importance of small patches of habitat for conservation. *Journal of Applied Ecology*, 53(2), 418-429. [More Information]

Tulloch, A., Mortelliti, A., Kay, G., Florance, D., Lindenmayer, D. (2016). Using empirical models of species colonization under multiple threatening processes to identify complementary threat-mitigation strategies. *Conservation Biology*, 30(4), 867-882. [More Information]

2015

Chades, I., Tarnopolskaya, T., Dunstall, S., Rhodes, J., Tulloch, A. (2015). A comparison of adaptive management and real options approaches for environmental decisions under uncertainty. *21st International Congress on Modelling and Simulation, MODSIM2015*, Gold Coast: Modelling and Simulation Society of Australia and New Zealand Inc (MSSANZ).

Bode, M., Tulloch, A., Mills, M., Venter, O., Ando, A. (2015). A conservation planning approach to mitigate the impacts of leakage from protected area networks. *Conservation Biology*, 29(3), 765-774. [More Information]

Lindenmayer, D., Pierson, J., Barton, P., Lane, P., Tulloch, A., Westgate, M. (2015). A diversity of approaches to ecological surrogates and key knowledge gaps. In D. Lindenmayer, P. Barton, J. Pierson (Eds.), *Indicators and Surrogates of Biodiversity and Environmental Change*, (pp. 189-194). Australia: CSIRO Publishing.

Lindenmayer, D., Pierson, J., Barton, P., Beger, M., Branquinho, C., Calhoun, A., Caro, T., Greig, H., Tulloch, A., et al (2015). A new framework for selecting environmental surrogates. *Science of the Total Environment*, 538, 1029-1038. [More Information]

Evans, M., Tulloch, A., Law, E., Raiter, K., Possingham, H., Wilson, K. (2015). Clear consideration of costs, condition and conservation benefits yields better planning outcomes. *Biological Conservation*, 191, 716-727. [More Information]

Kark, S., Tulloch, A., Gordon, A., Mazar, T., Bunnefeld, N., Levin, N. (2015). Cross-boundary collaboration: Key to the conservation puzzle. *Current Opinion in Environmental Sustainability*, 12, 12-24. [More Information]

Tulloch, A., Maloney, R., Joseph, L., Bennett, J., Di Fonzo, M., Probert, W., O'Connor, S., Densem, J., Possingham, H. (2015). Effect of risk aversion on prioritizing conservation projects. *Conservation Biology*, 29(2), 513-524. [More Information]

Auerbach, N., Wilson, K., Tulloch, A., Rhodes, J., Hanson, J., Possingham, H. (2015). Effects of threat management interactions on conservation priorities. *Conservation Biology*, 29(6), 1626-1635. [More

Information]

Runge, C., Tulloch, A., Hammill, E., Possingham, H., Fuller, R. (2015). Geographic range size and extinction risk assessment in nomadic species. *Conservation Biology*, 29(3), 865-876. [More Information]

Tulloch, A. (2015). Using decision theory to select indicators for managing threats to biodiversity. In D. Lindenmayer, P. Barton, J. Pierson (Eds.), *Indicators and Surrogates of Biodiversity and Environmental Change*, (pp. 45-57). Australia: CSIRO Publishing.

Tulloch, V., Tulloch, A., Visconti, P., Halpern, B., Watson, J., Evans, M., Auerbach, N., Barnes, M., Beger, M., Chades, I., et al (2015). Why do We map threats? Linking threat mapping with actions to make better conservation decisions. *Frontiers in Ecology and the Environment*, 13(2), 91-99. [More Information]

2014

Bennett, J., Elliott, G., Mellish, B., Joseph, L., Tulloch, A., Probert, W., Di Fonzo, M., Monks, J., Possingham, H., Maloney, R. (2014). Balancing phylogenetic diversity and species numbers in conservation prioritization, using a case study of threatened species in New Zealand. *Biological Conservation*, 174, 47-54. [More Information]

Auerbach, N., Tulloch, A., Possingham, H. (2014). Informed actions: Where to cost effectively manage multiple threats to species to maximize return on investment. *Ecological Applications*, 24(6), 1357-1373. [More Information]

Tulloch, A., Tulloch, V., Evans, M., Mills, M. (2014). The Value of Using Feasibility Models in Systematic Conservation Planning to Predict Landholder Management Uptake. *Conservation Biology*, 28(6), 1462-1473. [More Information]

2013

Tulloch, A., Chades, I., Possingham, H. (2013). Accounting for complementarity to maximize monitoring power for species management. *Conservation Biology*, 27(5), 988-999. [More Information]

Levin, N., Tulloch, A., Gordon, A., Mazor, T., Bunnefeld, N., Kark, S. (2013). Incorporating socioeconomic and political drivers of international collaboration into marine conservation planning. *BioScience*, 63(7), 547-563. [More Information]

Tulloch, V., Possingham, H., Jupiter, S., Roelfsema, C., Tulloch, A., Klein, C. (2013). Incorporating uncertainty associated with habitat data in marine reserve design. *Biological Conservation*, 162, 41-51. [More Information]

Guisan, A., Tingley, R., Baumgartner, J., Naujokaitis-Lewis, I., Sutcliffe, P., Tulloch, A., Regan, T., Brotons, L., McDonald-Madden, E., Mantyka-Pringle, C., et al (2013). Predicting species distributions for conservation decisions. *Ecology Letters*, 16(12), 1424-1435. [More

Information]

Tulloch, A., Possingham, H., Joseph, L., Szabo, J., Martin, T. (2013). Realising the full potential of citizen science monitoring programs. *Biological Conservation*, 165, 128-138. [More Information]

Tulloch, A., Mustin, K., Possingham, H., Szabo, J., Wilson, K. (2013). To boldly go where no volunteer has gone before: Predicting volunteer activity to prioritize surveys at the landscape scale. *Diversity and Distributions*, 19(4), 465-480. [More Information]

2012

Tulloch, A., Szabo, J. (2012). A behavioural ecology approach to understand volunteer surveying for citizen science datasets. *Emu*, 112(4), 313-325. [More Information]

2011

Tulloch, A., Possingham, H., Wilson, K. (2011). Wise selection of an indicator for monitoring the success of management actions. *Biological Conservation*, 144(1), 141-154. [More Information]

2007

Tulloch, A., Dickman, C. (2007). Effects of food and fire on the demography of a nectar-feeding marsupial: A field experiment. *Journal of Zoology*, 273(4), 382-388. [More Information]

2006

Tulloch, A., Dickman, C. (2006). Floristic and structural components of habitat use by the eastern pygmy-possum (*Cercartetus nanus*) in burnt and unburnt habitats. *Wildlife Research*, 33(8), 627-637. [More Information]