



# TERN Publications

## 2009-2019

A library of 1363 publications supported or assisted by TERN data, infrastructure, and/or personnel.

### CONTENTS

2019	1
2018	5
2017	27
2016	43
2015	56
2014	72
2013	81
2012	90
2011	97
2010	103
2009	107

## 2019

---

Alves, M., Music, B., Nadeau, D.F., Anctil, F., 2019. Comparing the performance of the Maximum Entropy Production (MEP) model with a land surface scheme in simulating surface energy fluxes. *Journal of Geophysical Research: Atmospheres* 0, NA. <https://doi.org/10.1029/2018JD029282>

Andreu, A., Dube, T., Nieto, H., Mudau, A.E., González-Dugo, M.P., Guzinski, R., Hülsmann, S., 2019. Remote sensing of water use and water stress in the African savanna ecosystem at local scale – Development and validation of a monitoring tool. *Physics and Chemistry of the Earth, Parts A/B/C* NA, NA. <https://doi.org/10.1016/j.pce.2019.02.004>

Baker, C.M., Bode, M., Dexter, N., Lindenmayer, D.B., Foster, C., MacGregor, C., Plein, M., McDonald-Madden, E., 2019. A novel approach to assessing the ecosystem-wide impacts of reintroductions. *Ecological Applications* 29. <https://doi.org/10.1002/eap.1811>

Barraza, V., Grings, F., Franco, M., Douna, V., Entekhabi, D., Restrepo-Coupe, N., Huete, A., Gassmann, M., Roitberg, E., 2019. Estimation of latent heat flux using satellite land surface temperature and a variational data assimilation scheme over a eucalypt forest savanna in Northern Australia. *Agricultural and Forest Meteorology* 268, 341–353. <https://doi.org/10.1016/j.agrformet.2019.01.032>

Besnard, S., Carvalhais, N., Arain, M.A., Black, A., Brede, B., Buchmann, N., Chen, J., Clevers, J.G.P.W., Dutrieux, L.P., Gans, F., Herold, M., Jung, M., Kosugi, Y., Knohl, A., Law, B.E., Paul-Limoges, E., Lohila, A., Merbold, L., Rouspard, O., Valentini, R., Wolf, S., Zhang, X., Reichstein, M., 2019. Memory effects of climate and vegetation affecting net ecosystem CO<sub>2</sub> fluxes in global forests. *PLOS ONE* 14, 1–22.

<https://doi.org/10.1371/journal.pone.0211510>

Bush, A., Catullo, R., Mokany, K., Harwood, T., Hoskins, A.J., Ferrier, S., 2019. Incorporating existing thermal tolerance into projections of compositional turnover under climate change. *Global Ecology and Biogeography* 0, NA. <https://doi.org/10.1111/geb.12898>

Carrillo-Rojas, G., Silva, B., Rollenbeck, R., Céller, R., Bendix, J., 2019. The breathing of the Andean highlands: Net ecosystem exchange and evapotranspiration over the páramo of southern Ecuador. *Agricultural and Forest Meteorology* 265, 30–47. <https://doi.org/10.1016/j.agrformet.2018.11.006>

Chen, X., Massman, W.J., Su, Z., 2019. A Column Canopy-Air Turbulent Diffusion Method for Different Canopy Structures. *Journal of Geophysical Research: Atmospheres* 124, 488–506. <https://doi.org/10.1029/2018JD028883>

Curtis, E.J., Gorrod, E.J., Ellis, M.V., Chisholm, L.A., 2019. A spatio-temporal analysis of canopy dynamics and intra-stand competition in a riparian forest, south-eastern Australia. *Forest Ecology and Management* 432, 189–199. <https://doi.org/10.1016/j.foreco.2018.08.044>

De Kauwe, M.G., Medlyn, B.E., Pitman, A.J., Drake, J.E., Ukkola, A., Griebel, A., Pendall, E., Prober, S., Roderick, M., 2019. Examining the evidence for decoupling between photosynthesis and transpiration during heat extremes. *Biogeosciences* 16, 903–916. <https://doi.org/10.5194/bg-16-903-2019>

Deb, P., Kiem, A.S., Willgoose, G., 2019. Mechanisms influencing non-stationarity in rainfall-runoff relationships in southeast Australia. *Journal of Hydrology* 571, 749–764. <https://doi.org/10.1016/j.jhydrol.2019.02.025>

Desanker, G., 2019. Environmental Controls on Phenoregions across an East African Megatract (Forestry-Master of Science). Michigan State University, Michigan, USA.

Du, J., He, Z., Piatek, K.B., Chen, L., Lin, P., Zhu, X., 2019. Interacting effects of temperature and precipitation on climatic sensitivity of spring vegetation green-up in arid mountains of China. Agricultural and Forest Meteorology 269–270, 71–77. <https://doi.org/10.1016/j.agrformet.2019.02.008>

Fedrigo, M., Stewart, S.B., Roxburgh, S.H., Kasel, S., Bennett, L.T., Vickers, H., Nitschke, C.R., 2019. Predictive Ecosystem Mapping of South-Eastern Australian Temperate Forests Using Lidar-Derived Structural Profiles and Species Distribution Models. Remote Sensing 11, 93. <https://doi.org/10.3390/rs11010093>

Goldbergs, G., Maier, S.W., Levick, S.R., Edwards, A., 2019. Limitations of high resolution satellite stereo imagery for estimating canopy height in Australian tropical savannas. International Journal of Applied Earth Observation and Geoinformation 75, 83–95. <https://doi.org/10.1016/j.jag.2018.10.021>

Gosper, C.R., Fox, E., Burbidge, A.H., Craig, M.D., Douglas, T.K., Fitzsimons, J.A., McNee, S., Nicholls, A.O., O'Connor, J., Prober, S.M., Watson, D.M., Watson, S.J., Yates, C.J., 2019. Multi-century periods since fire in an intact woodland landscape favour bird species declining in an adjacent agricultural region. Biological Conservation 230, 82–90. <https://doi.org/10.1016/j.biocon.2018.12.011>

Guerin, G.R., Andersen, A.N., Rossetto, M., Leeuwen, S. van, Byrne, M., Sparrow, B., Rodrigo, M., Lowe, A.J., 2019. Consistent sorting but contrasting transition zones in plant communities along bioclimatic gradients. Acta Oecologica 95, 74–85. <https://doi.org/10.1016/j.actao.2019.01.006>

Hemes, K.S., Chamberlain, S.D., Eichelmann, E., Anthony, T., Valach, A., Kasak, K., Szutu, D., Verfaillie, J., Silver, W.L., Baldocchi, D.D., 2019. Assessing the carbon and climate benefit of restoring degraded agricultural peat soils to managed wetlands. Agricultural and Forest Meteorology 268, 202–214.  
<https://doi.org/10.1016/j.agrformet.2019.01.017>

Howard, D., Macsween, K., Edwards, G.C., Desservetaz, M., Guérette, E.-A., Paton-Walsh, C., Surawski, N.C., Sullivan, A.L., Weston, C., Volkova, L., Powell, J., Keywood, M.D., Reisen, F., Meyer, C.P. (Mick), 2019. Investigation of mercury emissions from burning of Australian eucalypt forest surface fuels using a combustion wind tunnel and field observations. Atmospheric Environment 202, 17–27.  
<https://doi.org/10.1016/j.atmosenv.2018.12.015>

Kath, J., Brocque, A.F.L., Reardon-Smith, K., Apan, A., 2019. Remotely sensed agricultural grassland productivity responses to land use and hydro-climatic drivers under extreme drought and rainfall. Agricultural and Forest Meteorology 268, 11–22. <https://doi.org/10.1016/j.agrformet.2019.01.007>

Keenan, T.F., Migliavacca, M., Papale, D., Baldocchi, D., Reichstein, M., Torn, M., Wutzler, T., 2019. Widespread inhibition of daytime ecosystem respiration. Nature Ecology & Evolution 3, 407–415.  
<https://doi.org/10.1038/s41559-019-0809-2>

L'Herpiniere, K.L., O'Neill, L.G., Russell, A.F., Duursma, D.E., Griffith, S.C., 2019. Unscrambling variation in avian eggshell colour and patterning in a continent-wide study. Royal Society Open Science 6, 181269.  
<https://doi.org/10.1098/rsos.181269>

Li, X., Gentine, P., Lin, C., Zhou, S., Sun, Z., Zheng, Y., Liu, J., Zheng, C., 2019. A simple and objective method to partition evapotranspiration into transpiration and evaporation at eddy-covariance sites. Agricultural and Forest Meteorology 265, 171–182. <https://doi.org/10.1016/j.agrformet.2018.11.017>

Luo, Z., Eady, S., Sharma, B., Grant, T., Liu, D.L., Cowie, A., Farquharson, R., Simmons, A., Crawford, D., Searle, R., Moore, A., 2019. Mapping future soil carbon change and its uncertainty in croplands using simple surrogates of a complex farming system model. Geoderma 337, 311–321. <https://doi.org/10.1016/j.geoderma.2018.09.041>

Ma, X., Zhao, C., Yan, W., Zhao, X., 2019. Influences of 1.5 °C and 2.0 °C global warming scenarios on water use efficiency dynamics in the sandy areas of northern China. Science of The Total Environment 664, 161–174.  
<https://doi.org/10.1016/j.scitotenv.2019.01.402>

McBratney, A., Gruijter, J. de, Bryce, A., 2019. Pedometrics timeline. *Geoderma* 338, 568–575.  
<https://doi.org/10.1016/j.geoderma.2018.11.048>

Melville, B., Fisher, A., Lucieer, A., 2019. Ultra-high spatial resolution fractional vegetation cover from unmanned aerial multispectral imagery. *International Journal of Applied Earth Observation and Geoinformation* 78, 14–24. <https://doi.org/10.1016/j.jag.2019.01.013>

Packer, I.J., Chapman, G.A., Lawriex, J.W., 2019. On-Ground extension of soil information to improve land management. *Soil Use and Management* 0, NA. <https://doi.org/10.1111/sum.12494>

Pagán, B.R., Maes, W.H., Gentile, P., Martens, B., Miralles, D.G., 2019. Exploring the Potential of Satellite Solar-Induced Fluorescence to Constrain Global Transpiration Estimates. *Remote Sensing* 11, 413.  
<https://doi.org/10.3390/rs11040413>

Rahmati, O., Kornejad, A., Samadi, M., Deo, R.C., Conoscenti, C., Lombardo, L., Dayal, K., Taghizadeh-Mehrjardi, R., Pourghasemi, H.R., Kumar, S., Bui, D.T., 2019. PMT: New analytical framework for automated evaluation of geo-environmental modelling approaches. *Science of The Total Environment* 664, 296–311.  
<https://doi.org/10.1016/j.scitotenv.2019.02.017>

Ratcliffe, J.L., Campbell, D.I., Clarkson, B.R., Wall, A.M., Schipper, L.A., 2019. Water table fluctuations control CO<sub>2</sub> exchange in wet and dry bogs through different mechanisms. *Sci. Total Environ.* 655, 1037–1046.  
<https://doi.org/10.1016/j.scitotenv.2018.11.151>

Roxburgh, S.H., Karunaratne, S.B., Paul, K.I., Lucas, R.M., Armston, J.D., Sun, J., 2019. A revised above-ground maximum biomass layer for the Australian continent. *Forest Ecology and Management* 432, 264–275.  
<https://doi.org/10.1016/j.foreco.2018.09.011>

Scarth, P., Armston, J., Lucas, R., Bunting, P., 2019. A Structural Classification of Australian Vegetation Using ICESat/GLAS, ALOS PALSAR, and Landsat Sensor Data. *Remote Sensing* 11, 147.  
<https://doi.org/10.3390/rs11020147>

Sullivan, R.C., Cook, D.R., Ghate, V.P., Kotamarthi, V.R., Feng, Y., 2019. Improved Spatiotemporal Representativeness and Bias Reduction of Satellite-Based Evapotranspiration Retrievals via Use of In Situ Meteorology and Constrained Canopy Surface Resistance. *Journal of Geophysical Research: Biogeosciences* 0, NA. <https://doi.org/10.1029/2018JG004744>

Tulloch, A.I.T., Auerbach, N., Avery-Gomm, S., Dickman, C.R., Fisher, D.O., Grantham, H., Holden, M.H., Laverty, T.H., Leseberg, N.P., O'Connor, J., Roberson, L., Smyth, A.K., Stone, Z., Tulloch, V., Turak, E., Watson, J.E.M., Wardle, G.M., 2019. Reply to “Consider species specialism when publishing datasets” and “Decision trees for data publishing may exacerbate conservation conflict.” *Nature Ecology & Evolution* 3, 320–321.  
<https://doi.org/10.1038/s41559-019-0805-6>

Vinodkumar, Dharssi, I., 2019. Evaluation and calibration of a high-resolution soil moisture product for wildfire prediction and management. *Agricultural and Forest Meteorology* 264, 27–39.  
<https://doi.org/10.1016/j.agrformet.2018.09.012>

Walker, E., García, G.A., Venturini, V., 2019a. Evapotranspiration estimation using SMAP soil moisture products and bouchet complementary evapotranspiration over Southern Great Plains. *Journal of Arid Environments* 163, 34–40. <https://doi.org/10.1016/j.jaridenv.2019.01.002>

Walker, E., García, G.A., Venturini, V., Carrasco, A., 2019b. Regional evapotranspiration estimates using the relative soil moisture ratio derived from SMAP products. *Agricultural Water Management* 216, 254–263.  
<https://doi.org/10.1016/j.agwat.2019.02.009>

Wallace, L., Saldias, D.S., Reinke, K., Hillman, S., Hally, B., Jones, S., 2019. Using orthoimages generated from oblique terrestrial photography to estimate and monitor vegetation cover. Ecological Indicators 101, 91–101. <https://doi.org/10.1016/j.ecolind.2018.12.044>

Wentzky, V.C., Frassl, M.A., Rinke, K., Boehrer, B., 2019. Metalimnetic oxygen minimum and the presence of Planktothrix rubescens in a low-nutrient drinking water reservoir. Water Research 148, 208–218. <https://doi.org/10.1016/j.watres.2018.10.047>

Wu, C., Shang, Z., Lemetre, C., Ternei, M.A., Brady, S.F., 2019. Cadasides, Calcium-Dependent Acidic Lipopeptides from the Soil Metagenome That Are Active against Multidrug-Resistant Bacteria. Journal of the American Chemical Society 0, null. <https://doi.org/10.1021/jacs.8b12087>

Yu, R., Ruddell, B.L., Kang, M., Kim, J., Childers, D., 2019. Anticipating global terrestrial ecosystem state change using FLUXNET. Global Change Biology 0. <https://doi.org/10.1111/gcb.14602>

Zhang, Lexin, Lei, H., Shen, H., Cong, Z., Yang, D., Liu, T., 2019. Evaluating the Representation of Vegetation Phenology in the Community Land Model 4.5 in a Temperate Grassland. Journal of Geophysical Research: Biogeosciences 0, NA. <https://doi.org/10.1029/2018JG004866>

Zhang, Lifu, Qiao, N., Huang, C., Wang, S., 2019. Monitoring Drought Effects on Vegetation Productivity Using Satellite Solar-Induced Chlorophyll Fluorescence. Remote Sensing 11, 378. <https://doi.org/10.3390/rs11040378>

Zhang, Y., Kong, D., Gan, R., Chiew, F.H.S., McVicar, T.R., Zhang, Q., Yang, Y., 2019. Coupled estimation of 500 m and 8-day resolution global evapotranspiration and gross primary production in 2002–2017. Remote Sensing of Environment 222, 165–182. <https://doi.org/10.1016/j.rse.2018.12.031>

Zhao, C.S., Yang, Y., Yang, S.T., Xiang, H., Zhang, Y., Wang, Z.Y., Chen, X., Mitrovic, S.M., 2019. Predicting future river health in a minimally influenced mountainous area under climate change. Science of the Total Environment 656, 1373–1385. <https://doi.org/10.1016/j.scitotenv.2018.11.430>

Zhou, S., Zhang, Y., Park Williams, A., Gentine, P., 2019. Projected increases in intensity, frequency, and terrestrial carbon costs of compound drought and aridity events. Sci Adv 5, eaau5740. <https://doi.org/10.1126/sciadv.aau5740>

---

## 2018

---

Adole, T., Dash, J., Atkinson, P.M., 2018. Characterising the land surface phenology of Africa using 500 m {MODIS} {EVI}. *Applied Geography* 90, 187–199. <https://doi.org/10.1016/j.apgeog.2017.12.006>

Anderegg, W.R.L., Konings, A.G., Trugman, A.T., Yu, K., Bowling, D.R., Gabbitas, R., Karp, D.S., Pacala, S., Sperry, J.S., Sulman, B.N., Zenes, N., 2018. Hydraulic diversity of forests regulates ecosystem resilience during drought. *Nature* 561, 538–541. <https://doi.org/10.1038/s41586-018-0539-7>

Anderson, T.M., Griffith, D.M., Grace, J.B., Lind, E.M., Adler, P.B., Biederman, L.A., Blumenthal, D.M., Daleo, P., Firn, J., Hagenah, N., Harpole, W.S., MacDougall, A.S., McCulley, R.L., Prober, S.M., Risch, A.C., Sankaran, M., Schutz, M., Seabloom, E.W., Stevens, C.J., Sullivan, L.L., Wragg, P.D., Borer, E.T., 2018. Herbivory and eutrophication mediate grassland plant nutrient responses across a global climatic gradient. *Ecology* 99, 822–831. <https://doi.org/10.1002/ecy.2175>

Arrouays, D., Richer-de-Forges, A., McBratney, A., Hartemink, A., Minasny, B., Savin, I., Grundy, M., Leenaars, J., Poggio, L., Roudier, P., Libohova, Z., McKenzie, N., van den Bosch, H., Kempen, B., Mulder, V., Lacoste, M., Chen, S., Saby, N., Martin, M., Román Dobarco, M., Cousin, I., Loiseau, T., Lehmann, S., Caubet, M., Lemercier, B., Walter, C., Vaudour, E., Gomez, C., Martelet, G., Krasilnikov, P., Lagacherie, P., 2018. The GlobalSoilMap project: Past, present, future, and national examples from France. *Bulletin of V.V. Dokuchaev Soil Science Institute* 95, 3–22. <https://doi.org/10.19047/0136-1694-2018-95-3-22>

Asbridge, E., Lucas, R., Rogers, K., Accad, A., 2018. The extent of mangrove change and potential for recovery following severe Tropical Cyclone Yasi, Hinchinbrook Island, Queensland, Australia. *Ecology and evolution* 8, 10416–10434. <https://doi.org/10.1002/ece3.4485>

Assaf, I., Petter, N., K, R.F., J, L.P.N., J, S.G., 2018. Climate Dictates Magnitude of Asymmetry in Soil Depth and Hillslope Gradient. *Geophysical Research Letters* 0, 9. <https://doi.org/10.1029/2018GL077629>

Aubinet, M., Hurdebié, Q., Chopin, H., Debacq, A., De Ligne, A., Heinesch, B., Manise, T., Vincke, C., 2018. Inter-annual variability of Net Ecosystem Productivity for a temperate mixed forest: A predominance of carry-over effects? *Agricultural and Forest Meteorology* 262, 340–353. <https://doi.org/10.1016/j.agrformet.2018.07.024>

Bai, Y., Zhang, J., Zhang, S., Yao, F., Magliulo, V., 2018. A remote sensing-based two-leaf canopy conductance model: Global optimization and applications in modeling gross primary productivity and evapotranspiration of crops. *Remote Sensing of Environment* 215, 411–437. <https://doi.org/10.1016/j.rse.2018.06.005>

Baldocchi, D., Penuelas, J., 2018. The physics and ecology of mining carbon dioxide from the atmosphere by ecosystems. *Global Change Biology* 0. <https://doi.org/10.1111/gcb.14559>

Barnes, M.L., 2018. Flashy, Patchy and Coupled: Using Spectral and Gas Exchange Approaches to Refine Dryland Carbon Uptake Predictions Across Spatial and Temporal Scales (Doctor of Philosophy). THE UNIVERSITY OF ARIZONA, United States. ProQuest Dissertations Publishing.

Barraza Bernadas, V., Grings, F., Restrepo-Coupe, N., Huete, A., 2018. Comparison of the performance of latent heat flux products over southern hemisphere forest ecosystems: estimating latent heat flux error structure using in situ measurements and the triple collocation method. *International Journal of Remote Sensing* 39, 6300–6315. <https://doi.org/10.1080/01431161.2018.1458348>

Baruch, Z., Caddy-Retalic, S., Guerin, G.R., Sparrow, B., Leitch, E., Tokmakoff, A., Lowe, A.J., 2018. Floristic and structural assessment of Australian rangeland vegetation with standardized plot-based surveys. *PLOS ONE* 13, e0202073. <https://doi.org/10.1371/journal.pone.0202073>

Beggs, P.J., Davies, J.M., Milic, A., Haberle, S.G., Johnston, F.H., Jones, P.J., Katelaris, C.H., Newbiggin, E., 2018. Australian Airborne Pollen and Spore Monitoring Network Interim Standard and Protocols (Standards and Protocols No. 2). QUT, Macquarie University, AusPollen, Australia.

Bell, N., Griffin, P.C., Hoffmann, A.A., Miller, A.D., 2018. Spatial patterns of genetic diversity among Australian alpine flora communities revealed by comparative phylogenomics. *Journal of Biogeography* 45, 177–189. <https://doi.org/10.1111/jbi.13120>

Besnard, S., Carvalhais, N., Arain, M.A., Black, A., Bruun, S. de, Buchmann, N., Alessandro, C., Chen, J., Clevers, J.G.P.W., Desai, A.R., Gough, C.M., Havrankova, K., Martin, H., Hörtnagl, L., Jung, M., Knohl, A., Kruijt, B., Krupkova, L., Law, B.E., Anders, L., Noormets, A., Roupsard, O., Steinbrecher, R., Varlagin, A., Vincke, C., Markus, R., 2018. Quantifying the effect of forest age in annual net forest carbon balance. *Environmental Research Letters* 13, 124018. <https://doi.org/10.1088/1748-9326/aaeaeb>

Bishton, D., 2018. TERN expands climatic monitoring program in Australian first. Spatial Source. URL <https://www.spatialsource.com.au/gis-data/tern-expands-climatic-monitoring-program-in-australian-first>

Bland, Lucie M., Rowland, J.A., Regan, T.J., Keith, D.A., Murray, N.J., Lester, R.E., Linn, M., Rodríguez, J.P., Nicholson, E., 2018. Developing a standardized definition of ecosystem collapse for risk assessment. *Frontiers in Ecology and the Environment* 16, 29–36. <https://doi.org/10.1002/fee.1747>

Bland, L.M., Watermeyer, K.E., Keith, D.A., Nicholson, E., Regan, T.J., Shannon, L.J., 2018. Assessing risks to marine ecosystems with indicators, ecosystem models and experts. *Biological Conservation* 227, 19–28. <https://doi.org/10.1016/j.biocon.2018.08.019>

Bloomfield, K.J., Cernusak, L.A., Eamus, D., Ellsworth, D.S., Prentice, I.C., Wright, I.J., Boer, M.M., Bradford, M.G., Cale, P., Cleverly, J., Egerton, J.G., Evans, B.J., Hayes, L., Hutchinson, M.F., Liddell, M.J., Macfarlane, C., Meyer, W.S., Prober, S., Togashi, H.F., Wardlaw, T., Zhu, L., Atkin, O.K., 2018a. A continental-scale assessment of variability in leaf traits: within species, across sites and between seasons. *Functional Ecology* 32, 1492–1506. <https://doi.org/10.1111/1365-2435.13097>

Bloomfield, K.J., Prentice, I.C., Cernusak, L.A., Eamus, D., Medlyn, B.E., Rumman, R., Wright, I.J., Boer, M.M., Cale, P., Cleverly, J., Egerton, J.J.G., Ellsworth, D.S., Evans, B.J., Hayes, L.S., Hutchinson, M.F., Liddell, M.J., Macfarlane, C., Meyer, W.S., Togashi, H.F., Wardlaw, T., Zhu, L., Atkin, O.K., 2018b. The validity of optimal leaf traits modelled on environmental conditions. *New Phytologist* 0. <https://doi.org/10.1111/nph.15495>

Bodesheim, P., Jung, M., Gans, F., Mahecha, M.D., Reichstein, M., 2018. Upscaled diurnal cycles of land-atmosphere fluxes: a new global half-hourly data product. *Earth Syst. Sci. Data* 10, 1327–1365. <https://doi.org/10.5194/essd-10-1327-2018>

Bodesheim, Paul, Jung, M., Gans, F., Mahecha, M.D., Reichstein, M., 2018. Upscaled diurnal cycles of land-atmosphere fluxes: a new global half-hourly data product. *Earth System Science Data*. <https://doi.org/10.5194/essd-2017-130>

Boke-Olén, N., Lehsten, V., Abdi, A.M., Ardö, J., Khatir, A.A., 2018. Estimating Grazing Potentials in Sudan Using Daily Carbon Allocation in Dynamic Vegetation Model. *Rangeland Ecology & Management*. <https://doi.org/10.1016/j.rama.2018.06.006>

Bond-Lamberty, B., 2018. Data Sharing and Scientific Impact in Eddy Covariance Research. *Journal of Geophysical Research: Biogeosciences* 123, 1440–1443. <https://doi.org/10.1002/2018JG004502>

Bond-Lamberty, B., Bailey, V.L., Chen, M., Gough, C.M., Vargas, R., 2018. Globally rising soil heterotrophic respiration over recent decades. *Nature* 560, 80–83. <https://doi.org/10.1038/s41586-018-0358-x>

Botkin, A.N., 2018. Exploring Remote Sensing and Geographic Information Systems Technologies to Understand Vegetation Changes in Response to Land Management Practices at Finke Gorge National Park, Australia Between 1989 and 1999 (Master's Thesis). University of Southern California, California, USA.

Bruelheide, H., Dengler, J., Purschke, O., Lenoir, J., Jiménez-Alfaro, B., Hennekens, S.M., Botta-Dukát, Z., Chytrý, M., Field, R., Jansen, F., Kattge, J., Pillar, V.D., Schrodt, F., Mahecha, M.D., Peet, R.K., Sandel, B., van Bodegom, P., Altman, J., Alvarez-Dávila, E., Arfin Khan, M.A.S., Attorre, F., Aubin, I., Baraloto, C., Barroso, J.G., Bauters, M., Bergmeier, E., Biurrun, I., Bjorkman, A.D., Blonder, B., Čarní, A., Cayuela, L., Černý, T., Cornelissen, J.H.C., Craven, D., Dainese, M., Derroire, G., De Sanctis, M., Díaz, S., Doležal, J., Farfan-Rios, W., Feldpausch, T.R., Fenton, N.J., Garnier, E., Guerin, G.R., Gutiérrez, A.G., Haider, S., Hattab, T., Henry, G., Hérault, B., Higuchi, P., Hölzel, N., Homeier, J., Jentsch, A., Jürgens, N., Kącki, Z., Karger, D.N., Kessler, M., Kleyer, M., Knollová, I., Korolyuk, A.Y., Kühn, I., Laughlin, D.C., Lens, F., Loos, J., Louault, F., Lyubenova, M.I., Malhi, Y., Marcenò, C., Mencuccini, M., Müller, J.V., Munzinger, J., Myers-Smith, I.H., Neill, D.A., Niinemets, Ü., Orwin, K.H., Ozinga, W.A., Penuelas, J., Pérez-Haase, A., Petřík, P., Phillips, O.L., Pärtel, M., Reich, P.B., Römermann, C., Rodrigues, A.V., Sabatini, F.M., Sardans, J., Schmidt, M., Seidler, G., Silva Espejo, J.E., Silveira, M., Smyth, A., Sporbert, M., Svenning, J.-C., Tang, Z., Thomas, R., Tsiripidis, I., Vassilev, K., Violette, C., Virtanen, R., Weiher, E., Welk, E., Wesche, K., Winter, M., Wirth, C., Jandt, U., 2018. Global trait–environment relationships of plant communities. *Nature Ecology & Evolution* 2, 1906–1917. <https://doi.org/10.1038/s41559-018-0699-8>

Buermann, W., Forkel, M., O'Sullivan, M., Sitch, S., Friedlingstein, P., Haverd, V., Jain, A.K., Kato, E., Kautz, M., Liennert, S., Lombardozzi, D., Nabel, J.E.M.S., Tian, H., Wiltshire, A.J., Zhu, D., Smith, W.K., Richardson, A.D., 2018. Widespread seasonal compensation effects of spring warming on northern plant productivity. *Nature* 562, 110–114. <https://doi.org/10.1038/s41586-018-0555-7>

Buettel, J.C., Cole, A., Dickey, J.M., Brook, B.W., 2018. Analyzing linear spatial features in ecology. *Ecology*. <https://doi.org/10.1002/ecy.2215>

Bui, E.N., 2018. High-resolution mapping of acid sulfate soils in Northern Australia through predictive models. *Environmental Chemistry Letters* 1–7. <https://doi.org/10.1007/s10311-018-0753-4>

Burns, E.L., Tennant, P., Dickman, C.R., Gillespie, G., Green, P.T., Hoffmann, A., Keith, D.A., Lindenmayer, D.B., Metcalfe, D.J., Morgan, J.W., Russell-Smith, J., Wardle, G.M., 2018. Making monitoring work: insights and lessons from Australia's Long Term Ecological Research Network. *Australian Zoologist* 39, 755–768. <https://doi.org/10.7882/AZ.2018.030>

Burrell, A.L., Evans, J.P., Liu, Y., 2018. The impact of dataset selection on land degradation assessment. *ISPRS Journal of Photogrammetry and Remote Sensing* 146, 22–37. <https://doi.org/10.1016/j.isprsjprs.2018.08.017>

Burt, A., Disney, M., Calders, K., 2018. Extracting individual trees from lidar point clouds using treeseg. *Methods in Ecology and Evolution* NA. <https://doi.org/10.1111/2041-210X.13121>

Butt, N., Gallagher, R., 2018. Using species traits to guide conservation actions under climate change. *Climatic Change* 1–16. <https://doi.org/10.1007/s10584-018-2294-z>

C, P.J., A, G.T., C, B.S., C, K.K., B, L.D., 2018. Relationship between effective and demographic population size in continuously distributed populations. *Evolutionary Applications* NA. <https://doi.org/10.1111/eva.12636>

Caddy-Retalic, S., Hoffmann, B.D., Guerin, G.R., Andersen, A.N., Wardle, G.M., McInerney, F.A., Lowe, A.J., 2018. Plant and ant assemblages predicted to decouple under climate change. *Diversity and Distributions* 0. <https://doi.org/10.1111/ddi.12858>

Cahir, F., Clark, I., Clarke, P., 2018. Aboriginal Biocultural Knowledge in South-eastern Australia: Perspectives of Early Colonists. CSIRO PUBLISHING.

Calders, K., Origo, N., Disney, M., Nightingale, J., Woodgate, W., Armston, J., Lewis, P., 2018. Variability and bias in active and passive ground-based measurements of effective plant, wood and leaf area index. *Agric. For. Meteorol.* 252, 231–240.

Camino-Serrano, M., Guenet, B., Luyssaert, S., Ciais, P., Bastrikov, V., De Vos, B., Gielen, B., Gleixner, G., Jornet-Puig, A., Kaiser, K., Kothawala, D., Lauerwald, R., Peñuelas, J., Schrumpf, M., Vicca, S., Vuichard, N., Walmsley, D., Janssens, I.A., 2018. ORCHIDEE-SOM: modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe. *Geoscientific Model Development* 11, 937–957.  
<https://doi.org/10.5194/gmd-11-937-2018>

Cernusak, L.A., 2018. Gas exchange and water-use efficiency in plant canopies. *Plant Biology* 0.  
<https://doi.org/10.1111/plb.12939>

Chaivaranont, W., Evans, J.P., Liu, Y.Y., Sharples, J.J., 2018. Estimating grassland curing with remotely sensed data. *Natural Hazards and Earth System Sciences* 18, 1535–1554. <https://doi.org/10.5194/nhess-18-1535-2018>

Chappell, A., Webb, N.P., Guerschman, J.P., Thomas, D.T., Mata, G., Handcock, R.N., Leys, J.F., Butler, H.J., 2018. Improving ground cover monitoring for wind erosion assessment using MODIS BRDF parameters. *Remote Sensing of Environment* 204, 756–768. <https://doi.org/10.1016/j.rse.2017.09.026>

Cheeseman, M.J., 2018. PRODUCTIVITY AND PHENOLOGY IN A PROCESS-DRIVEN CARBON CYCLE MODEL (Degree of Master of Science). Colorado State University, Colorado, USA.

Chen, G., Hobbie, S.E., Reich, P.B., Yang, Y., Robinson, D., 2018. Allometry of fine roots in forest ecosystems. *Ecology Letters* 22, 322–331. <https://doi.org/10.1111/ele.13193>

Clancy, T., Bryan, B.A., Guru, S.M., 2018. Chapter 16: The Future for Land Use Mapping: National E-Infrastructure, Modelling Analytics, Synthesis and Securing Institutional Capacity, in: *Land Use in Australia: Past Present and Future*. ANU eView, The Australian National University, ACT, Australia, pp. 253–262.

Colin, B., Schmidt, M., Clifford, S., Woodley, A., Mengersen, K., 2018. Influence of Spatial Aggregation on Prediction Accuracy of Green Vegetation Using Boosted Regression Trees. *Remote Sensing* 10, 1260.  
<https://doi.org/10.3390/rs10081260>

Collalti, A., Trotta, C., Keenan, T.F., Ibrom, A., Bond-Lamberty, B., Grote, R., Vicca, S., Reyer, C.P.O., Migliavacca, M., Veroustraete, F., Anav, A., Campioli, M., Scoccimarro, E., Šigut, L., Grieco, E., Cescatti, A., Matteucci, G., 2018. Thinning can reduce losses in carbon use efficiency and carbon stocks in managed forests under warmer climate. *Journal of Advances in Modeling Earth Systems* Not yet available, Not-yet available.  
<https://doi.org/10.1029/2018MS001275>

Colliander, A., Jackson, T.J., Chan, S.K., O'Neill, P., Bindlish, R., Cosh, M.H., Caldwell, T., Walker, J.P., Berg, A., McNairn, H., Thibeault, M., Martínez-Fernández, J., Jensen, K.H., Asanuma, J., Seyfried, M.S., Bosch, D.D., Starks, P.J., Holifield Collins, C., Prueger, J.H., Su, Z., Lopez-Baeza, E., Yueh, S.H., 2018. An assessment of the differences between spatial resolution and grid size for the SMAP enhanced soil moisture product over homogeneous sites. *Remote Sensing of Environment* 207, 65–70. <https://doi.org/10.1016/j.rse.2018.02.006>

Crago, R.D., Qualls, R.J., 2018. Evaluation of the Generalized and Rescaled Complementary Evaporation Relationships. *Water Resources Research* Not yet available, Not-yet available.  
<https://doi.org/10.1029/2018WR023401>

Dai, S.-Q., Li, H., Xiong, J., Ma, J., Guo, H.-Q., Xiao, X., Zhao, B., 2018. Assessing the Extent and Impact of Online Data Sharing in Eddy Covariance Flux Research. *Journal of Geophysical Research: Biogeosciences* n/a-n/a.  
<https://doi.org/10.1002/2017JG004277>

Dalrymple, R.L., Flores-Moreno, H., Kemp, D.J., White, T.E., Laffan, S.W., Hemmings, F.A., Hitchcock, T.D., Moles, A.T., 2018. Abiotic and biotic predictors of macroecological patterns in bird and butterfly coloration. Ecological Monographs n/a-n/a. <https://doi.org/10.1002/ecm.1287>

Dayal, K.S., Deo, R.C., Apan, A.A., 2018. Spatio-temporal drought risk mapping approach and its application in the drought-prone region of south-east Queensland, Australia. Natural Hazards 1–25.  
<https://doi.org/10.1007/s11069-018-3326-8>

Dayalu, A., Munger, J.W., Wofsy, S.C., Wang, Y., Nehrkorn, T., Zhao, Y., McElroy, M.B., Nielsen, C.P., Luus, K., 2018. Assessing biotic contributions to CO<sub>2</sub> fluxes in northern China using the Vegetation, Photosynthesis and Respiration Model (VPRM-CHINA) and observations from 2005 to 2009. Biogeosciences 15, 6713–6729.  
<https://doi.org/10.5194/bg-15-6713-2018>

De Kauwe, M.G., Medlyn, B.E., Pitman, A.J., Drake, J.E., Ukkola, A., Griebel, A., Pendall, E., Prober, S., Roderick, M., 2018. Examining the evidence for sustained transpiration during heat extremes. Biogeosciences Discussions 2018, 1–17. <https://doi.org/10.5194/bg-2018-399>

Del Toro, I., Ribbons, R.R., Hayward, J., Andersen, A.N., 2018. Are stacked species distribution models accurate at predicting multiple levels of diversity along a rainfall gradient? Austral Ecology 0.  
<https://doi.org/10.1111/aec.12658>

Devadas, R., Huete, A.R., Vicendese, D., Erbas, B., Beggs, P.J., Medek, D., Haberle, S.G., Newnham, R.M., Johnston, F.H., Jaggard, A.K., Campbell, B., Burton, P.K., Katelaris, C.H., Newbigin, E., Thibaudon, M., Davies, J.M., 2018. Dynamic ecological observations from satellites inform aerobiology of allergenic grass pollen. Science of the Total Environment 633, 441–451. <https://doi.org/10.1016/j.scitotenv.2018.03.191>

Djukic, I., Kepfer-Rojas, S., Schmidt, I.K., Larsen, K.S., Beier, C., Berg, B., Verheyen, K., Caliman, A., Paquette, A., Gutierrez-Giron, A., Humber, A., Valdecantos, A., Petraglia, A., Alexander, H., Augustaitis, A., Saillard, A., Fernandez, A.C.R., Sousa, A.I., Lillebo, A.I., Gripp, A.D., Francez, A.J., Fischer, A., Bohner, A., Malyshev, A., Andric, A., Smith, A., Stanisci, A., Seres, A., Schmidt, A., Avila, A., Probst, A., Ouin, A., Khuroo, A.A., Verstraeten, A., Palabral-Aguilera, A.N., Stefanski, A., Gaxiola, A., Muys, B., Bosman, B., Ahrends, B., Parker, B., Sattler, B., Yang, B., Jurani, B., Erschbamer, B., Ortiz, C.E.R., Christiansen, C.T., Adair, E.C., Meredieu, C., Mony, C., Nock, C.A., Chen, C.L., Wang, C.P., Baum, C., Rixen, C., Delire, C., Piscart, C., Andrews, C., Rebmann, C., Branquinho, C., Polyanskaya, D., Delgado, D.F., Wundram, D., Radeideh, D., Ordonez-Regil, E., Crawford, E., Preda, E., Tropina, E., Groner, E., Lucot, E., Hornung, E., Gacia, E., Levesque, E., Benedito, E., Davydov, E.A., Ampoorter, E., Bolzan, F.P., Varela, F., Kristofel, F., Maestre, F.T., Maunoury-Danger, F., Hofhansl, F., Kitz, F., Sutter, F., Cuesta, F., Lobo, F.D., de Souza, F.L., Berninger, F., Zehetner, F., Wohlfahrt, G., Vourlitis, G., Carreno-Rocabado, G., Arena, G., Pinha, G.D., Gonzalez, G., Canut, G., Lee, H., Verbeeck, H., Auge, H., Pauli, H., Nacro, H.B., Bahamonde, H.A., Feldhaar, H., Jager, H., Serrano, H.C., Verheyden, H., Bruelheide, H., Meesenburg, H., Jungkunst, H., Jactel, H., Shibata, H., Kurokawa, H., Rosas, H.L., Villalobos, H.L.R., Yesilonis, I., Melece, I., Van Halder, I., Quiros, I.G., Makelele, I., Senou, I., Fekete, I., Mihal, I., Ostonen, I., Borovska, J., Roales, J., Shoqeir, J., Lata, J.C., Theurillat, J.P., Probst, J.L., Zimmerman, J., Vijayanathan, J., Tang, J.W., Thompson, J., Dolezal, J., Sanchez-Cabeza, J.A., Merlet, J., Henschel, J., Neirynck, J., Knops, J., Loehr, J., von Oppen, J., Porlaksdottir, J.S., Loffler, J., Cardoso-Mohedano, J.G., Benito-Alonso, J.L., Torezan, J.M., Morina, J.C., Jimenez, J.J., Quinde, J.D., Alatalo, J., Seeber, J., Stadler, J., Kriiska, K., Coulibaly, K., Fukuzawa, K., Szlavecz, K., Gerhatova, K., Lajtha, K., Kappeler, K., Jennings, K.A., Tielborger, K., Hoshizaki, K., Green, K., Ye, L., Pazianoto, L.H.R., Dienstbach, L., Williams, L., Yahdjian, L., Brigham, L.M., van den Brink, L., Rustad, L., Zhang, L.P., Morillas, L., Lu, X.K., Carneiro, L.S., Di Martino, L., Villar, L., Bader, M.Y., Morley, M., Lebouvier, M., Tomaselli, M., Sternberg, M., Schaub, M., Santos-Reis, M., Glushkova, M., Torres, M.G.A., Giroux, M.A., de Graaff, M.A., Pons, M.N., Bauters, M., Mazon, M., Frenzel, M., Didion, M., Wagner, M., Hamid, M., Lopes, M.L., Apple, M., Schadler, M., Weih, M., Gualmini, M., Vadéboncoeur, M.A., Bierbaumer, M., Danger, M., Liddell, M., Mirtl, M., Scherer-Lorenzen, M., Ruzek, M., Carbognani, M., Di Musciano, M., Matsushita, M., Zhiyanski, M., Puscas, M., Barna, M., Ataka, M., Mo, J.M., Alsafran, M., Carnol, M., Barsoum, N., Tokuchi, N., Eisenhauer, N., Lecomte, N., Filippova, N., Holzel, N., Ferlian, O., Romero, O., Pinto, O.B., Peri, P., Weber, P., Vittoz, P., Turtureanu, P.D., Fleischer, P., Macreadie, P., Haase, P., Reich, P., Petrik, P., Choler, P., Marmonier, P., Muriel, P., Ponette, Q., Guariento, R.D., Canessa, R., Kiese, R., Hewitt, R., Ronn, R., Adrian, R., Kanka, R., Weigel, R., Gatti, R.C., Martins, R.L., Georges, R., Meneses, R.I., Gavilan, R.G.,

Dasgupta, S., Wittlinger, S., Puijalon, S., Freda, S., Suzuki, S., Charles, S., Gogo, S., Drollinguer, S., Mereu, S., Wipf, S., Trevathan-Tackett, S., Lofgren, S., Stoll, S., Trogisch, S., Hoeber, S., Seitz, S., Glatzel, S., Milton, S.J., Dousset, S., Mori, T., Sato, T., Ise, T., Hishi, T., Kenta, T., Nakaji, T., Michelan, T.S., Camboulive, T., Mozdzer, T.J., Scholten, T., Spiegelberger, T., Zechmeister, T., Kleinebecker, T., Hiura, T., Enoki, T., Ursu, T.M., di Cellia, U.M., Hamer, U., Klaus, V.H., Rego, V.M., Di Cecco, V., Busch, V., Fontana, V., Piscova, V., Carbonell, V., Ochoa, V., Bretagnolle, V., Maire, V., Farjalla, V., Zhou, W.J., Luo, W.T., McDowell, W.H., Hu, Y.L., Utsumi, Y., Kominami, Y., Zaika, Y.L., Rozhkov, Y., Kotroczo, Z., Toth, Z., TeaComposition, 2018. Early stage litter decomposition across biomes. *Sci. Total Environ.* 628–629, 1369–1394. <https://doi.org/10.1016/j.scitotenv.2018.01.012>

Draper, C.S., Reichle, R.H., Koster, R.D., 2018. Assessment of MERRA-2 Land Surface Energy Flux Estimates. *Journal of Climate* 31, 671–691. <https://doi.org/10.1175/JCLI-D-17-0121.1>

Duarte, L., Teodoro, A.C., Monteiro, A.T., Cunha, M., Gonçalves, H., 2018. QPhenoMetrics: An open source software application to assess vegetation phenology metrics. *Computers and Electronics in Agriculture* 148, 82–94. <https://doi.org/10.1016/j.compag.2018.03.007>

Ducker, J.A., Holmes, C.D., Keenan, T.F., Fares, S., Goldstein, A.H., Mammarella, I., Munger, J.W., Schnell, J., 2018. Synthetic ozone deposition and stomatal uptake at flux tower sites. *Biogeosciences* 15, 5395–5413. <https://doi.org/10.5194/bg-15-5395-2018>

Duveiller, G., Hooker, J., Cescatti, A., 2018. A dataset mapping the potential biophysical effects of vegetation cover change. *Scientific Data* 5, 180014. <https://doi.org/10.1038/sdata.2018.14>

Edwards, A.C., Russell-Smith, J., Maier, S.W., 2018. A comparison and validation of satellite-derived fire severity mapping techniques in fire prone north Australian savannas: Extreme fires and tree stem mortality. *Remote Sens. Environ.* 206, 287–299. <https://doi.org/10.1016/j.rse.2017.12.038>

Edwards, W., Liddell, M.J., Franks, P., Nichols, C., Laurance, S.G.W., 2018. Seasonal patterns in rainforest litterfall: Detecting endogenous and environmental influences from long-term sampling. *Austral Ecol.* 43, 225–235. <https://doi.org/10.1111/aec.12559>

Einoder, L.D., Southwell, D.M., Lahoz-Monfort, J.J., Gillespie, G.R., Fisher, A., Wintle, B.A., 2018. Occupancy and detectability modelling of vertebrates in northern Australia using multiple sampling methods. *PLOS ONE* 13, 1–21. <https://doi.org/10.1371/journal.pone.0203304>

Englert Duursma, D., Gallagher, R.V., Griffith, S.C., 2018a. Variation in the timing of avian egg-laying in relation to climate. *Ecography* Not yet available. <https://doi.org/10.1111/ecog.03602>

Englert Duursma, D., Gallagher, R.V., Price, J.J., Griffith, S.C., 2018b. Variation in avian egg shape and nest structure is explained by climatic conditions. *Scientific Reports* 8, 4141. <https://doi.org/10.1038/s41598-018-22436-0>

Famiglietti, C.A., Fisher, J.B., Halverson, G., Borbas, E.E., 2018. Global Validation of MODIS Near-Surface Air and Dew Point Temperatures. *Geophys. Res. Lett.* 45, 7772–7780. <https://doi.org/10.1029/2018gl077813>

Farina, A., 2018. Perspectives in ecoacoustics: A contribution to defining a discipline. *J. Ecoacoust.* 2. <https://doi.org/10.22261/JEA.TRZD51>

Farley, S.S., Dawson, A., Goring, S.J., Williams, J.W., 2018. Situating Ecology as a Big-Data Science: Current Advances, Challenges, and Solutions. *BioScience* 68, 563–576. <https://doi.org/10.1093/biosci/biy068>

Fei, X., Song, Q., Zhang, Y., Liu, Y., Sha, L., Yu, G., Zhang, L., Duan, C., Deng, Y., Wu, C., Lu, Z., Luo, K., Chen, A., Xu, K., Liu, W., Huang, H., Jin, Y., Zhou, R., Li, J., Lin, Y., Zhou, L., Fu, Y., Bai, X., Tang, X., Gao, J., Zhou, W., Grace, J., 2018. Carbon exchanges and their responses to temperature and precipitation in forest ecosystems in Yunnan,

Southwest China. *Science of The Total Environment* 616–617, 824–840.  
<https://doi.org/10.1016/j.scitotenv.2017.10.239>

Fisher, A., Scarth, P., Armston, J., Danaher, T., 2018. Relating foliage and crown projective cover in Australian tree stands. *Agric. For. Meteorol.* 259, 39–47. <https://doi.org/10.1016/j.agrformet.2018.04.016>

Frost, A.J., Ramchurn, A., Smith, A., 2018. The Australian Landscape Water Balance model (AWRA-L v6) (Technical Report No. 3.0), Technical Description of the Australian Water Resources Assessment Landscape model version 6. Bureau of Meteorology, Melbourne, Australia.

Frost, A.J., Wright, D.P., 2018. The Australian water resource assessment landscape model - AWRA-L: Improved performance and regional calibration, in: Water and Communities. Presented at the Hydrology and Water Resources Symposium (HWRS 2018), Engineers Australia, Melbourne, pp. 933–949.

Fu, Z., Gerken, T., Bromley, G., Araújo, A., Bonal, D., Burban, B., Ficklin, D., Fuentes, J.D., Goulden, M., Hirano, T., Kosugi, Y., Liddell, M., Nicolini, G., Niu, S., Rouspard, O., Stefani, P., Mi, C., Tofte, Z., Xiao, J., Valentini, R., Wolf, S., Stoy, P.C., 2018. The surface-atmosphere exchange of carbon dioxide in tropical rainforests: Sensitivity to environmental drivers and flux measurement methodology. *Agricultural and Forest Meteorology* 263, 292–307. <https://doi.org/10.1016/j.agrformet.2018.09.001>

Fürstenau Togashi, H., Prentice, I.C., Atkin, O.K., Macfarlane, C., Prober, S.M., Bloomfield, K.J., Evans, B.J., 2018. Thermal acclimation of leaf photosynthetic traits in an evergreen woodland, consistent with the coordination hypothesis. *Biogeosciences* 15, 3461–3474. <https://doi.org/10.5194/bg-15-3461-2018>

Gaillardet, J., Braud, I., Hankard, F., Anquetin, S., Bour, O., Dorfliger, N., de Dreuzy, J.R., Galle, S., Galy, C., Gogo, S., Gourcy, L., Habets, F., Laggoun, F., Longuevergne, L., Le Borgne, T., Naaim-Bouvet, F., Nord, G., Simonneaux, V., Six, D., Tallec, T., Valentin, C., Abril, G., Allemand, P., Arenes, A., Arfib, B., Arnaud, L., Arnaud, N., Arnaud, P., Audry, S., Comte, V.B., Batiot, C., Battaïs, A., Bellot, H., Bernard, E., Bertrand, C., Bessière, H., Binet, S., Bodin, J., Bodin, X., Boithias, L., Bouchez, J., Boudevillain, B., Moussa, I.B., Branger, F., Braun, J.J., Brunet, P., Caceres, B., Calmels, D., Cappelaere, B., Celle-Jeanton, H., Chabaux, F., Chalikakis, K., Champollion, C., Copard, Y., Cotel, C., Davy, P., Deline, P., Delrieu, G., Demarty, J., Dessert, C., Dumont, M., Emblanch, C., Ezzahar, J., Esteves, M., Favier, V., Faucheuix, M., Filizola, N., Flammarion, P., Flory, P., Fovet, O., Fournier, M., Francez, A.J., Gandois, L., Gascuel, C., Gayer, E., Genthon, C., Gerard, M.F., Gilbert, D., Gouttevin, I., Grippa, M., Gruau, G., Jardani, A., Jeanneau, L., Join, J.L., Jourde, H., Karbou, F., Labat, D., Lagadeuc, Y., Lajeunesse, E., Lastennet, R., Lavado, W., Lawin, E., Lebel, T., Le Bouteiller, C., Legout, C., Lejeune, Y., Le Meur, E., Le Moigne, N., Lions, J., Lucas, A., Malet, J.P., Marais-Sicre, C., Marechal, J.C., Marlin, C., Martin, P., Martins, J., Martinez, J.M., Massei, N., Mauclerc, A., Mazzilli, N., Molenat, J., Moreira-Turcq, P., Mougin, E., Morin, S., Ngoupayou, J.N., Panthou, G., Peugeot, C., Picard, G., Pierret, M.C., Porel, G., Probst, A., Probst, J.L., Rabatel, A., Raclot, D., Ravanel, L., Rejiba, F., Rene, P., Ribolzi, O., Riotte, J., Riviere, A., Robain, H., Ruiz, L., Sanchez-Perez, J.M., Santini, W., Sauvage, S., Schoeneich, P., Seidel, J.L., Sekhar, M., Sengtaheuanghong, O., Silvera, N., Steinmann, M., Soruco, A., Tallec, G., Thibert, E., Lao, D.V., Vincent, C., Viville, D., Wagnon, P., Zitouna, R., 2018. OZCAR: The French Network of Critical Zone Observatories. *Vadose Zone J.* 17, 24. <https://doi.org/10.2136/vzj2018.04.0067>

Gan, R., Zhang, Y., Shi, H., Yang, Y., Eamus, D., Cheng, L., Chiew Francis, H.S., Yu, Q., 2018. Use of satellite leaf area index estimating evapotranspiration and gross assimilation for Australian ecosystems. *Ecohydrology* 11, e1974. <https://doi.org/10.1002/eco.1974>

Gellie, N.J.H., Hunter, J.T., Benson, J.S., Kirkpatrick, J.B., Cheal, D.C., McCreery, K., Brocklehurst, P., 2018. Overview of plot-based vegetation classification approaches within Australia. *Phytocoenologia* 48, 251–272. <https://doi.org/10.1127/phyto/2017/0173>

Gerken, T., Ruddell, B.L., Fuentes, J.D., Araújo, A., Brunsell, N.A., Maia, J., Manzi, A., Mercer, J., dos Santos, R.N., von Randow, C., Stoy, P.C., 2018. Investigating the mechanisms responsible for the lack of surface energy balance closure in a central Amazonian tropical rainforest. *Agricultural and Forest Meteorology* 255, 92–103. <https://doi.org/10.1016/j.agrformet.2017.03.023>

Gevaert, A.I., Renzullo, L.J., van Dijk, A., van der Woerd, H.J., Weerts, A.H., de Jeu, R.A.M., 2018. Joint assimilation of soil moisture retrieved from multiple passive microwave frequencies increases robustness of soil moisture state estimation. *Hydrol. Earth Syst. Sci.* 22, 4605–4619. <https://doi.org/10.5194/hess-22-4605-2018>

Gibb, H., Grossman, B.F., Dickman, C.R., Wardle, G., 2018. Over what timeframes do desert ants respond to variation in climate and resources? *Australian Zoologist* 39, 646–657. <https://doi.org/10.7882/AZ.2018.016>

Goldbergs, G., Levick, S.R., Lawes, M., Edwards, A., 2018. Hierarchical integration of individual tree and area-based approaches for savanna biomass uncertainty estimation from airborne LiDAR. *Remote Sens. Environ.* 205, 141–150. <https://doi.org/10.1016/j.rse.2017.11.010>

Goldbergs, Grigorijs, Maier, S.W., Levick, S.R., Edwards, A., 2018. Efficiency of Individual Tree Detection Approaches Based on Light-Weight and Low-Cost UAS Imagery in Australian Savannas. *Remote Sensing* 10, 161. <https://doi.org/10.3390/rs10020161>

Goll, D.S., Joetzjer, E., Huang, M., Ciais, P., 2018. Low phosphorus availability decreases susceptibility of tropical primary productivity to droughts. *Geophysical Research Letters*. <https://doi.org/10.1029/2018GL077736>

Gosper, C.R., Yates, C.J., Cook, G.D., Harvey, J.M., Liedloff, A.C., McCaw, W.L., Thiele, K.R., Prober, S.M., 2018. A conceptual model of vegetation dynamics for the unique obligate-seeder eucalypt woodlands of south-western Australia. *Austral Ecology* 43, 681–695. <https://doi.org/10.1111/aec.12613>

Gow, L.J., Barrett, D.J., O'Grady, A.P., Renzullo, L.J., Phinn, S.R., 2018. Subsurface water-use strategies and physiological responses of subtropical eucalypt woodland vegetation under changing water-availability conditions. *Agric. For. Meterol.* 248, 348–360. <https://doi.org/10.1016/j.agrformet.2017.10.005>

Gray, M.A., McGowan, H.A., Guyot, A., Lockington, D.A., 2018. Impacts of Fire and Flood on Land-Surface–Atmosphere Energetics in a Sub-tropical Barrier Island Freshwater Swamp. *Boundary-Layer Meteorology* 1–21. <https://doi.org/10.1007/s10546-018-0414-y>

Greenville, A.C., Burns, E., Dickman, C.R., Keith, D.A., Lindenmayer, D.B., Morgan, J.W., Heinze, D., Mansergh, I., Gillespie, G.R., Einoder, L., Fisher, A., Russell-Smith, J., Metcalfe, D.J., Green, P.T., Hoffmann, A.A., Wardle, G.M., 2018a. Biodiversity responds to increasing climatic extremes in a biome-specific manner. *Science of The Total Environment* 634, 382–393. <https://doi.org/10.1016/j.scitotenv.2018.03.285>

Greenville, A.C., Nguyen, V., Wardle, G.M., Dickman, C.R., 2018b. Making the most of incomplete long-term datasets: the MARSS solution. *Australian Zoologist* 39, 733–747. <https://doi.org/10.7882/AZ.2018.018>

Grimbacher, P.S., Edwards, W., Liddell, M.J., Nelson, P.N., Nichols, C., Wardhaugh, C.W., Stork, N.E., 2018. Temporal variation in abundance of leaf litter beetles and ants in an Australian lowland tropical rainforest is driven by climate and litter fall. *Biodivers. Conserv.* 27, 2625–2640. <https://doi.org/10.1007/s10531-018-1558-2>

Gu, Chunjie, Ma, J., Zhu, G., Yang, H., Zhang, K., Wang, Y., Gu, Chunli, 2018. Partitioning evapotranspiration using an optimized satellite-based ET model across biomes. *Agricultural and Forest Meteorology* 259, 355–363. <https://doi.org/10.1016/j.agrformet.2018.05.023>

Guerin, Greg R., Andersen, A.N., Rossetto, M., van Leeuwen, S., Byrne, M., Sparrow, B., Rodrigo, M., Lowe, A.J., 2018a. When macroecological transitions are a fiction of sampling: comparing herbarium records to plot-based species inventory data. *Ecography* 41, 1864–1875. <https://doi.org/10.1111/ecog.03607>

Guerin, G.R., Christmas, M.J., Sparrow, B., Lowe, A.J., 2018. Projected climate change implications for the South Australian flora. *Swainsona* 30, 25–31.

Guerin, G. R., Martin-Fores, I., Sparrow, B., Lowe, A.J., 2018b. The biodiversity impacts of non-native species should not be extrapolated from biased single-species studies. *Biodivers. Conserv.* 27, 785–790.  
<https://doi.org/10.1007/s10531-017-1439-0>

Guerin, G. R., O'Connor, P.J., Sparrow, B., Lowe, A.J., 2018c. An ecological climate change classification for South Australia. *Transactions of the Royal Society of South Australia* 142, 70–85.  
<https://doi.org/10.1080/03721426.2018.1438803>

Guo, D., Lintern, A., Webb, J.A., Ryu, S., Western, A.W., 2018. Integrated modelling of spatio-temporal variability in stream water quality across Victorian catchments, in: Water and Communities. Presented at the Hydrology and Water Resources Symposium (HWRS 2018), Engineers Australia, Melbourne.

Guo, Y., Graves, S., Flory, S.L., Bohlman, S., 2018. Hyperspectral Measurement of Seasonal Variation in the Coverage and Impacts of an Invasive Grass in an Experimental Setting. *Remote Sensing* 10.  
<https://doi.org/10.3390/rs10050784>

Haas, T.C., 2018. Automatic Acquisition and Sustainable Use of Political-Ecological Data. *Data Science Journal* 17, 17. <https://doi.org/10.5334/dsj-2018-017>

Haase, P., Tonkin, J.D., Stoll, S., Burkharde, B., Frenzel, M., Geijzendorffer, I.R., Hauser, C., Klotz, S., Kuhn, I., McDowell, W.H., Mirtl, M., Muller, F., Musche, M., Penner, J., Zacharias, S., Schmeller, D.S., 2018. The next generation of site-based long-term ecological monitoring: Linking essential biodiversity variables and ecosystem integrity. *Sci. Total Environ.* 613, 1376–1384. <https://doi.org/10.1016/j.scitotenv.2017.08.111>

Hammer, T.A., Macintyre, P.D., Nge, F.J., Davis, R.W., Mucina, L., Thiele, K.R., 2018. The noble and the exalted: a multidisciplinary approach to resolving a taxonomic controversy within *Ptilotus* (Amaranthaceae). *Aust. Systematic Bot.* 31, 262–280.

Han, Q., Wang, T., Jiang, Y., Fischer, R., Li, C., 2018. Phenological variation decreased carbon uptake in European forests during 1999–2013. *Forest Ecology and Management* 427, 45–51.  
<https://doi.org/10.1016/j.foreco.2018.05.062>

Haughton, N., Abramowitz, G., De Kauwe, M.G., Pitman, A.J., 2018a. Does predictability of fluxes vary between FLUXNET sites? *Biogeosciences* 15, 4495–4513. <https://doi.org/10.5194/bg-15-4495-2018>

Haughton, N., Abramowitz, G., Pitman, A.J., 2018b. On the predictability of land surface fluxes from meteorological variables. *Geosci. Model Dev.* 11, 195–212. <https://doi.org/10.5194/gmd-11-195-2018>

Hautier, Y., Isbell, F., Borer, E.T., Seabloom, E.W., Harpole, W.S., Lind, E.M., MacDougall, A.S., Stevens, C.J., Adler, P.B., Alberti, J., Bakker, J.D., Brudvig, L.A., Buckley, Y.M., Cadotte, M., Caldeira, M.C., Chaneton, E.J., Chu, C.J., Daleo, P., Dickman, C.R., Dwyer, J.M., Eskelinen, A., Fay, P.A., Firn, J., Hagenah, N., Hillebrand, H., Irribarne, O., Kirkman, K.P., Knops, J.M.H., La Pierre, K.J., McCulley, R.L., Morgan, J.W., Partel, M., Pascual, J., Price, J.N., Prober, S.M., Risch, A.C., Sankaran, M., Schuetz, M., Standish, R.J., Virtanen, R., Wardle, G.M., Yahdjian, L., Hector, A., 2018. Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. *Nat. Ecol. Evol.* 2, 50–56. <https://doi.org/10.1038/s41559-017-0395-0>

Hering, J.G., 2018. Implementation Science for the Environment. *Environ. Sci. Technol.* 52, 5555–5560.  
<https://doi.org/10.1021/acs.est.8b00874>

Houston, P., Bardsley, D.K., 2018. Climate change adaptation for peri-urban horticulture: a case study of the Adelaide Hills apple and pear industry. *South Australian Geographical Journal* 114, 29–42.  
<https://doi.org/10.21307/sagj-2018-005>

Howard, D., Edwards, G.C., 2018. Mercury fluxes over an Australian alpine grassland and observation of nocturnal atmospheric mercury depletion events. *ATMOSPHERIC CHEMISTRY AND PHYSICS* 18, 129–142. <https://doi.org/10.5194/acp-2017-580>

Howard, S., McInerney, F.A., Caddy-Retalic, S., Hall, P.A., Andrae, J.W., 2018. Modelling leaf wax n-alkane inputs to soils along a latitudinal transect across Australia. *Organic Geochemistry* 121, 126–137. <https://doi.org/10.1016/j.orggeochem.2018.03.013>

Huang, K., Xia, J., Wang, Y., Ahlström, A., Chen, J., Cook, R.B., Cui, E., Fang, Y., Fisher, J.B., Huntzinger, D.N., Li, Z., Michalak, A.M., Qiao, Y., Schaefer, K., Schwalm, C., Wang, J., Wei, Y., Xu, X., Yan, L., Bian, C., Luo, Y., 2018. Enhanced peak growth of global vegetation and its key mechanisms. *Nature Ecology & Evolution* 2, 1897–1905. <https://doi.org/10.1038/s41559-018-0714-0>

Huete, A., Koedsin, W., Wu, J., 2018. Hyperspectral Applications to Landscape Phenology, in: Advanced Applications in Remote Sensing of Agricultural Crops and Natural Vegetation. CRC Press, Florida, USA.

Hughes, P., McBratney, A.B., Minasny, B., Huang, J., Michel, E., Hempel, J., Jones, E., 2018. Comparisons between USDA soil taxonomy and the Australian Soil Classification system II: Comparison of order, suborder and great group taxa. *Geoderma* 322, 48–55. <https://doi.org/10.1016/j.geoderma.2018.02.022>

Jiménez, C., Martens, B., Miralles, D.M., Fisher, J.B., Beck, H.E., Fernández-Prieto, D., 2018. Exploring the merging of the global land evaporation WACMOS-ET products based on local tower measurements. *Hydrology and Earth System Sciences* 22, 4513–4533. <https://doi.org/10.5194/hess-22-4513-2018>

Johanson, L.G., Hoffmann, A.A., Walker, K.L., Nash, M.A., 2018. Bees of the Victorian Alps: Network structure and interactions of introduced species. *Austral Ecology* Not yet available. <https://doi.org/10.1111/aec.12669>

Joiner, J., Yoshida, Y., Zhang, Y., Duveiller, G., Jung, M., Lyapustin, A., Wang, Y., Tucker, C.J., 2018. Estimation of Terrestrial Global Gross Primary Production (GPP) with Satellite Data-Driven Models and Eddy Covariance Flux Data. *Remote Sensing* 10, 1346. <https://doi.org/10.3390/rs10091346>

Jones, M.O., Running, S.W., Kimball, J.S., Robinson, N.P., Allred, B.W., 2018. Terrestrial primary productivity indicators for inclusion in the National Climate Indicators System. *Climatic Change*. <https://doi.org/10.1007/s10584-018-2155-9>

Kai Wu, Z.J.H.S.L.N., 2018. Triple collocation-based estimation of spatially correlated observation error covariance in remote sensing soil moisture data assimilation. *Journal of Applied Remote Sensing* 12, 12-12–19. <https://doi.org/10.1117/1.JRS.12.016039>

Kearney, M.R., 2018. MicroclimOz – A microclimate data set for Australia, with example applications. *Austral Ecology* 0. <https://doi.org/10.1111/aec.12689>

Kearney, M.R., Deutscher, J., Kong, J.D., Hoffmann, A.A., 2018. Summer egg diapause in a matchstick grasshopper synchronises the life cycle and buffers thermal extremes. *Integrative Zoology*. <https://doi.org/10.1111/1749-4877.12314>

Kearney, M.R., Maino, J.L., 2018. Can next-generation soil data products improve soil moisture modelling at the continental scale? An assessment using a new microclimate package for the R programming environment. *Journal of Hydrology* 561, 662–673. <https://doi.org/10.1016/j.jhydrol.2018.04.040>

Keenan, T.F., Williams, C.A., 2018. The Terrestrial Carbon Sink. *Annual Review of Environment and Resources* 43, 219–243. <https://doi.org/10.1146/annurev-environ-102017-030204>

Knauer, J., El-Madany, T.S., Zaehle, S., Migliavacca, M., 2018a. Bigleaf—An R package for the calculation of physical and physiological ecosystem properties from eddy covariance data. PLOS ONE 13, 1–26. <https://doi.org/10.1371/journal.pone.0201114>

Knauer, J., Zaehle, S., Medlyn, B.E., Reichstein, M., Williams, C.A., Migliavacca, M., De Kauwe, M.G., Werner, C., Keitel, C., Kolari, P., Limousin, J.-M., Linderson, M.-L., 2018b. Towards physiologically meaningful water-use efficiency estimates from eddy covariance data. Global Change Biology 24, 694–710. <https://doi.org/10.1111/gcb.13893>

Kolassa, J., Reichle, R.H., Liu, Q., Alemohammad, S.H., Gentine, P., Aida, K., Asanuma, J., Bircher, S., Caldwell, T., Colliander, A., Cosh, M., Holifield Collins, C., Jackson, T.J., Martínez-Fernández, J., McNairn, H., Pacheco, A., Thibeault, M., Walker, J.P., 2018. Estimating surface soil moisture from SMAP observations using a Neural Network technique. Remote Sensing of Environment 204, 43–59. <https://doi.org/10.1016/j.rse.2017.10.045>

Laubach, J., Hunt, J.E., 2018. Greenhouse-gas budgets for irrigated dairy pasture and a winter-forage kale crop. Agricultural and Forest Meteorology 258, 117–134. <https://doi.org/10.1016/j.agrformet.2017.04.013>

Legge, S., Robinson, N., Lindenmayer, D., Scheele, B., Southwell, D., Wintle, B., 2018. Monitoring Threatened Species and Ecological Communities, 1st ed. CSIRO Publishing.

Lesslie, R., Mewett, J., 2018. Chapter 3: Reprint: Land Use and Management - The Australian Context, in: Land Use in Australia: Past Present and Future. ANU eView, The Australian National University, ACT, Australia, pp. 31–57.

Leys, J., Strong, C., Heidenreich, S., Koen, T., 2018. Where She Blows! A Ten Year Dust Climatology of Western New South Wales Australia. Geosciences 8, 232. <https://doi.org/10.3390/geosciences8070232>

Li, L.H., Wang, Y.P., Arora, V.K., Eamus, D., Shi, H., Li, J., Cheng, L., Cleverly, J., Hajima, T., Ji, D.Y., Jones, C., Kawamiya, M., Li, W.P., Tjiputra, J., Wiltshire, A., Zhang, L., Yu, Q., 2018. Evaluating Global Land Surface Models in CMIP5: Analysis of Ecosystem Water- and Light-Use Efficiencies and Rainfall Partitioning. J. Clim. 31, 2995–3008. <https://doi.org/10.1175/jcli-d-16-0177.1>

Li, S., Wang, G., Sun, S., Chen, H., Bai, P., Zhou, S., Huang, Y., Wang, J., Deng, P., 2018. Assessment of Multi-Source Evapotranspiration Products over China Using Eddy Covariance Observations. Remote Sensing 10, 1692. <https://doi.org/10.3390/rs10111692>

Li, Ximeng, Blackman, C.J., Rymer, P.D., Quintans, D., Duursma, R.A., Choat, B., Medlyn, B.E., Tissue, D.T., 2018. Xylem embolism measured retrospectively is linked to canopy dieback in natural populations of *Eucalyptus piperita* following drought. Tree Physiology 38, 1193–1199. <https://doi.org/10.1093/treephys/tpy052>

Li, Xing, Xiao, J., He, B., 2018. Chlorophyll fluorescence observed by OCO-2 is strongly related to gross primary productivity estimated from flux towers in temperate forests. Remote Sensing of Environment 204. <https://doi.org/10.1016/j.rse.2017.09.034>

Li, Y., Shi, H., Zhou, L., Eamus, D., Huete, A., Li, L., Cleverly, J., Hu, Z., Harahap, M., Yu, Q., He, L., Wang, S., 2018. Disentangling climate and LAI effects on seasonal variability in water use efficiency across terrestrial ecosystems in China. Journal of Geophysical Research-Biogeosciences 123, 2429–2443. <https://doi.org/10.1029/2018JG004482>

Lian, S., Luis, G., Kaiyu, G., Liangzhi, Y., Alfredo, H., Weimin, J., Yongguang, Z., 2018. Satellite sun-induced chlorophyll fluorescence detects early response of winter wheat to heat stress in the Indian Indo-Gangetic Plains. Global Change Biology 24, 694–710. <https://doi.org/10.1111/gcb.14302>

Liddicoat, Craig, Bi, P., Waycott, M., Glover, J., Breed, M., Weinstein, P., 2018. Ambient soil cation exchange capacity inversely associates with infectious and parasitic disease risk in regional Australia. *Science of The Total Environment* 626, 117–125. <https://doi.org/10.1016/j.scitotenv.2018.01.077>

Liddicoat, C., Bi, P., Waycott, M., Glover, J., Lowe, A.J., Weinstein, P., 2018. Landscape biodiversity correlates with respiratory health in Australia. *J. Environ. Manage.* 206, 113–122. <https://doi.org/10.1016/j.jenvman.2017.10.007>

Liming, H., M, C.J., Alemu, G., Xiangzhong, L., Rong, W., Yang, L., Ronggao, L., 2018. Changes in the Shadow: The Shifting Role of Shaded Leaves in Global Carbon and Water Cycles Under Climate Change. *Geophysical Research Letters*. <https://doi.org/10.1029/2018GL077560>

Lin, C., Gentine, P., Huang, Y., Guan, K., Kimm, H., Zhou, S., 2018. Diel ecosystem conductance response to vapor pressure deficit is suboptimal and independent of soil moisture. *Agric. For. Meterol.* 250–251, 24–34. <https://doi.org/10.1016/j.agrformet.2017.12.078>

Lindenmayer, D.B., Blanchard, W., Blair, D., McBurney, L., Stein, J., Banks, S.C., 2018a. Empirical relationships between tree fall and landscape-level amounts of logging and fire. *PLOS ONE* 13, 1–12. <https://doi.org/10.1371/journal.pone.0193132>

Lindenmayer, D.B., Lane, P., Crane, M., Florance, D., Foster, C.N., Ikin, K., Michael, D., Sato, C.F., Scheele, B.C., Westgate, M.J., 2018b. Weather effects on birds of different size are mediated by long-term climate and vegetation type in endangered temperate woodlands. *Global Change Biology* 0. <https://doi.org/10.1111/gcb.14524>

Lindenmayer, D.B., MacGregor, C., Dexter, N., 2018c. Chapter 13: Progress in the conservation of populations of the eastern bristlebird from central coastal New South Wales and Jervis Bay Territory, in: Recovering Australian Threatened Species: A Book of Hope. CSIRO Publishing, pp. 115–124.

Lindenmayer, D.B., McBurney, L., Blair, D., Wood, J., Banks, S.C., Mukul, S., 2018d. From unburnt to salvage logged: Quantifying bird responses to different levels of disturbance severity. *Journal of Applied Ecology* 0. <https://doi.org/10.1111/1365-2664.13137>

Lindenmayer, D.B., Sato, C., 2018. Hidden collapse is driven by fire and logging in a socioecological forest ecosystem. *Proceedings of the National Academy of Sciences*. <https://doi.org/10.1073/pnas.1721738115>

Ling, J.E., Casanova, M.T., Shannon, I., Powell, M., 2018. Development of a wetland plant indicator list to inform the delineation of wetlands in New South Wales. *Mar. Freshwater Res.* Not yet available. <https://doi.org/10.1071/MF18114>

Lintern, A., Webb, J.A., Ryu, D., Liu, S., Bende-Michl, U., Watson, M., Waters, D., Leahy, P., Wilson, P., Western, A., 2018. Understanding the spatial variability in catchment dynamics: a case study of 107 stream catchments in Victoria. Presented at the MODSIM2017, 22nd International Congress on Modelling and Simulation, The Modelling and Simulation Society of Australia and New Zealand, Melbourne, Australia.

Lintern, A., Webb, J.A., Ryu, D., Liu, S., Waters, D., Leahy, P., Bende-Michl, U., Western, A.W., 2018. What are the key catchment characteristics affecting spatial differences in riverine water quality? *Water Resources Research*. <https://doi.org/10.1029/2017WR022172>

Liu, H., Wu, Q., Wang, M., Zhang, M., 2018. Multivariate Analysis of Water Quality of the Chenqi Basin, Inner Mongolia, China. *Mine Water and the Environment* 1–14. <https://doi.org/10.1007/s10230-018-0533-1>

Liu, N., Shaikh, M.A., Kala, J., Harper, R.J., Dell, B., Liu, S., Sun, G., 2018. Parallelization of a distributed ecohydrological model. *Environmental Modelling and Software* 101, 51–63.  
<https://doi.org/10.1016/j.envsoft.2017.11.033>

Liu, S., Ryu, D., Webb, J.A., Lintern, A., Waters, D., Guo, D., Western, A.W., 2018. Characterisation of spatial variability in water quality in the Great Barrier Reef catchments using multivariate statistical analysis. *Marine Pollution Bulletin* 137, 137–151. <https://doi.org/10.1016/j.marpolbul.2018.10.019>

Lunn, T.J., Gerwin, M., Buettel, J.C., Brook, B.W., 2018. Impact of intense disturbance on the structure and composition of wet-eucalypt forests: A case study from the Tasmanian 2016 wildfires. *PLoS ONE* 13. <https://doi.org/10.1371/journal.pone.0200905>

Lyons, M.B., Keith, D.A., Phinn, S.R., Mason, T.J., Elith, J., 2018. A comparison of resampling methods for remote sensing classification and accuracy assessment. *Remote Sensing of Environment* 208, 145–153.  
<https://doi.org/10.1016/j.rse.2018.02.026>

M, Z.L., R, B.D., Philipp, K., Christian, F., L, G.M., D, B.P., C, L.J., 2018. Solar-induced fluorescence detects inter-annual variation in gross primary production of coniferous forests in the western United States. *Geophysical Research Letters* 0. <https://doi.org/10.1029/2018GL077906>

MacBean, N., Maignan, F., Bacour, C., Lewis, P., Peylin, P., Guanter, L., Köhler, P., Gómez-Dans, J., Disney, M., 2018. Strong constraint on modelled global carbon uptake using solar-induced chlorophyll fluorescence data. *Scientific Reports* 8, 1973. <https://doi.org/10.1038/s41598-018-20024-w>

Mackey, B., 2018. Chapter 15: Elephants in the Kitchen; Responding to the Challenge of Rapidly Changing Climate and Land Use, in: *Land Use in Australia: Past Present and Future*. ANU eView, The Australian National University, ACT, Australia, pp. 241–250.

Maes, W., Huete, A., Avino, M., Boer, M., Dehaan, R., Pendall, E., Griebel, A., Steppe, K., 2018. Can UAV-Based Infrared Thermography Be Used to Study Plant-Parasite Interactions between Mistletoe and Eucalypt Trees? *Remote Sensing* 10, 2062. <https://doi.org/10.3390/rs10122062>

Maes, W.H., Gentine, P., Verhoest, N.E.C., Miralles, D.G., 2018. Potential evaporation at eddy covariance sites across the globe. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. <https://doi.org/10.5194/hess-2017-682>

Mallick, K., Toivonen, E., Trebs, I., Boegh, E., Cleverly, J., Eamus, D., Koivusalo, H., Drewry, D., Arndt, S.K., Griebel, A., Beringer, J., Garcia, M., 2018. Bridging Thermal Infrared Sensing and Physically-Based Evapotranspiration Modeling: From Theoretical Implementation to Validation Across an Aridity Gradient in Australian Ecosystems. *Water Resources Research* 54, 3409–3435. <https://doi.org/10.1029/2017WR021357>

Marchin, R.M., McHugh, I., Simpson, R.R., Ingram, L.J., Balas, D.S., Evans, B.J., Adams, M.A., 2018. Productivity of an Australian mountain grassland is limited by temperature and dryness despite long growing seasons. *Agric. For. Meterol.* 256–257, 116–124. <https://doi.org/10.1016/j.agrformet.2018.02.030>

Martens, B., de Jeu, R.A.M., Verhoest, N.E.C., Schuurmans, H., Kleijer, J., Miralles, D.G., 2018. Towards Estimating Land Evaporation at Field Scales Using GLEAM. *Remote Sensing* 10. <https://doi.org/10.3390/rs10111720>

Martínez, B., Sanchez-Ruiz, S., Gilabert, M.A., Moreno, A., Campos-Taberner, M., García-Haro, F.J., Trigo, I.F., Aurela, M., Brümmer, C., Carrara, A., Ligne, A.D., Gianelle, D., Grünwald, T., Limousin, J.M., Lohila, A., Mammarella, I., Sottocornola, M., Steinbrecher, R., Tagesson, T., 2018. Retrieval of daily gross primary production over Europe and Africa from an ensemble of SEVIRI/MSG products. *International Journal of Applied Earth Observation and Geoinformation* 65, 124–136. <https://doi.org/10.1016/j.jag.2017.10.011>

Massmann, A., Gentine, P., Lin, C., 2018. When does vapor pressure deficit drive or reduce evapotranspiration? ArXiv e-prints 46.

McBratney, A.B., Minasny, B., Stockmann, U., 2018. Pedometrics, Progress in Soil Science. Springer International Publishing.

McCombs, A.G., Hiscox, A.L., Wang, C., Desai, A.R., Suyker, A.E., Biraud, S.C., 2018. Carbon Flux Phenology from the sky: Evaluation for Maize and Soybean. Journal of Atmospheric and Oceanic Technology. <https://doi.org/10.1175/JTECH-D-17-0004.1>

McDonald, T., Prober, S.M., 2018. Piecing together our woodlands - Interview with Suzanne Prober. Ecol. Manag. Restor. 19, 180–188. <https://doi.org/10.1111/emr.12339>

McKenzie, N., 2018. Chapter 10: Understanding Soil Change: Institutional Requirements to Ensure Australia's National Preparedness, in: Land Use in Australia: Past Present and Future. ANU eView, The Australian National University, ACT, Australia, pp. 145–165.

Melville, B., Lucieer, A., Aryal, J., 2018. Object-based random forest classification of Landsat ETM+ and WorldView-2 satellite imagery for mapping lowland native grassland communities in Tasmania, Australia. International Journal of Applied Earth Observation and Geoinformation 66, 46–55. <https://doi.org/10.1016/j.jag.2017.11.006>

Mercado, L.M., Medlyn, B.E., Huntingford, C., Oliver, R.J., Clark, D.B., Sitch, S., Zelazowski, P., Kattge, J., Harper, A.B., Cox, P.M., 2018. Large sensitivity in land carbon storage due to geographical and temporal variation in the thermal response of photosynthetic capacity. New Phytologist 0. <https://doi.org/10.1111/nph.15100>

Miao, G., Guan, K., Yang, X., Bernacchi, C.J., Berry, J.A., DeLucia, E.H., Wu, J., Moore, C.E., Meacham, K., Cai, Y., Peng, B., Kimm, H., Masters, M.D., 2018. Sun-Induced Chlorophyll Fluorescence, Photosynthesis, and Light Use Efficiency of a Soybean Field from Seasonally Continuous Measurements. Journal of Geophysical Research: Biogeosciences 123, 610–623. <https://doi.org/10.1002/2017JG004180>

Mirtl, M., T. Borer, E., Djukic, I., Forsius, M., Haubold, H., Hugo, W., Jourdan, J., Lindenmayer, D., McDowell, W.H., Muraoka, H., Orenstein, D.E., Pauw, J.C., Peterseil, J., Shibata, H., Wohner, C., Yu, X., Haase, P., 2018. Genesis, goals and achievements of Long-Term Ecological Research at the global scale: A critical review of ILTER and future directions. Science of The Total Environment 626, 1439–1462. <https://doi.org/10.1016/j.scitotenv.2017.12.001>

Mollenhauer, H., Kasner, M., Haase, P., Peterseil, J., Wohner, C., Frenzel, M., Mirtl, M., Schima, R., Bumberger, J., Zacharias, S., 2018. Long-term environmental monitoring infrastructures in Europe: observations, measurements, scales, and socio-ecological representativeness. Science of The Total Environment 624, 968–978. <https://doi.org/10.1016/j.scitotenv.2017.12.095>

Moore, C.E., Beringer, J., Donohue, R.J., Evans, B., Exbrayat, J., Hutley, L.B., Tapper, N.J., 2018. Seasonal, interannual and decadal drivers of tree and grass productivity in an Australian tropical savanna. Global Change Biology 24, 2530–2544. <https://doi.org/10.1111/gcb.14072>

Moran, C., Boulter, S., 2018. Biodiversity and Ecosystems Climate Adaptation Plan (Plan). Queensland Government, Brisbane, Australia.

Munier, S., Aires, F., 2018. A new global method of satellite dataset merging and quality characterization constrained by the terrestrial water budget. Remote Sensing of Environment 205, 119–130. <https://doi.org/10.1016/j.rse.2017.11.008>

Nauer, P.A., Hutley, L.B., Arndt, S.K., 2018. Termite mounds mitigate half of termite methane emissions. Proceedings of the National Academy of Sciences 115, 13306–13311.  
<https://doi.org/10.1073/pnas.1809790115>

Ndalila, M.N., Williamson, G.J., Bowman, D.M.J.S., 2018. Geographic Patterns of Fire Severity Following an Extreme Eucalyptus Forest Fire in Southern Australia: 2013 Forcett-Dunalley Fire. Fire 1.  
<https://doi.org/10.3390/fire1030040>

Ndunge, C.I.H., 2018. Assessment of woody plant and grass competitive interactions using reciprocal transplants along a rainfall gradient in Namibian savannas (Masters Thesis). The University of Namibia, Namibia.

Nelson, Jacob A., Carvalhais, N., Cuntz, M., Delpierre, N., Knauer, J., Ogée, J., Migliavacca, M., Reichstein, M., Jung, M., 2018. Coupling Water and Carbon Fluxes to Constrain Estimates of Transpiration: The TEA Algorithm. Journal of Geophysical Research: Biogeosciences 123, 3617–3632. <https://doi.org/10.1029/2018JG004727>

Nelson, J. A., Carvalhais, N., Migliavacca, M., Reichstein, M., Jung, M., 2018. Water-stress-induced breakdown of carbon–water relations: indicators from diurnal FLUXNET patterns. Biogeosciences 15, 2433–2447.  
<https://doi.org/10.5194/bg-15-2433-2018>

Nolan, R.H., Tarin, T., Rumman, R., Cleverly, J., Fairweather, K.A., Zolfaghar, S., Santini, N.S., O’Grady, A.P., Eamus, D., 2018. Contrasting ecophysiology of two widespread arid zone tree species with differing access to water resources. Journal of Arid Environments 153, 1–10. <https://doi.org/10.1016/j.jaridenv.2018.01.003>

Novick, K.A., Biederman, J.A., Desai, A.R., Litvak, M.E., Moore, D.J.P., Scott, R.L., Torn, M.S., 2018. The AmeriFlux network: A coalition of the willing. Agric. For. Meteorol. 249, 444–456.  
<https://doi.org/10.1016/j.agrformet.2017.10.009>

O’Brien, K.R., Adams, M.P., Ferguson, A.J.P., Samper-Villarreal, J., Maxwell, P.S., Baird, M.E., Collier, C., 2018. Seagrass Resistance to Light Deprivation: Implications for Resilience, in: Larkum, A.W.D., Kendrick, G.A., Ralph, P.J. (Eds.), Seagrasses of Australia: Structure, Ecology and Conservation. Springer International Publishing, pp. 287–311. [https://doi.org/10.1007/978-3-319-71354-0\\_10](https://doi.org/10.1007/978-3-319-71354-0_10)

Oliphant, A.J., Stoy, P.C., 2018. An Evaluation of Semiempirical Models for Partitioning Photosynthetically Active Radiation Into Diffuse and Direct Beam Components. Journal of Geophysical Research: Biogeosciences 123, 889–901. <https://doi.org/10.1002/2017JG004370>

Palle gedara Dewage, S.N.S., 2018. Novel techniques for mapping soil carbon (Doctor of Philosophy). University of Sydney, New South Wales, Australia.

Patel, N.R., Padalia, H., Kushwaha, S.P.S., Nandy, S., Watham, T., Ahongshangbam, J., Kumar, R., Dadhwal, V.K., Senthil Kumar, A., 2018. CO<sub>2</sub> Flux Tower and Remote Sensing: Tools for Monitoring Carbon Exchange over Ecosystem Scale in Northwest Himalaya, in: Navalgund, R.R., Kumar, A.S., Nandy, S. (Eds.), Remote Sensing of Northwest Himalayan Ecosystems. Springer Singapore, Singapore, pp. 313–327.

Paterson, S.E., 2018. Soil Spatial Scaling: Modelling variability of soil properties across scales using legacy data (Doctor of Philosophy). The University of Sydney, Sydney, NSW, Australia.

Paul-Limoges, E., Damm, A., Hueni, A., Liebisch, F., Eugster, W., Schaepman, M.E., Buchmann, N., 2018. Effect of environmental conditions on sun-induced fluorescence in a mixed forest and a cropland. Remote Sens. Environ. 219, 310–323. <https://doi.org/10.1016/j.rse.2018.10.018>

Payne, C.J., 2018. LONG-TERM TEMPORAL DYNAMICS OF THE DUKE FOREST (Doctor of Philosophy). University of North Carolina, Chapel Hill, USA.

Pfeifer, M., Gonsamo, A., Woodgate, W., Cayuela, L., Marshall, A.R., Ledo, A., Paine, T.C.E., Marchant, R., Burt, A., Calders, K., Courtney-Mustaphi, C., Cuni-Sanchez, A., Deere, N.J., Denu, D., de Tanago, J.G., Hayward, R., Lau, A., Macia, M.J., Olivier, P.I., Pellikka, P., Seki, H., Shirima, D., Trevithick, R., Wedeux, B., Wheeler, C., Munishi, P.K.T., Martin, T., Mustari, A., Platts, P.J., 2018. Tropical forest canopies and their relationships with climate and disturbance: results from a global dataset of consistent field-based measurements. *For. Ecosyst.* 5, 14. <https://doi.org/10.1186/s40663-017-0118-7>

Piggott, M.P., Banks, S.C., MacGregor, C., Lindenmayer, D.B., 2018. Population genetic patterns in an irruptive species, the long-nosed bandicoot (*Perameles nasuta*). *Conservation Genetics* 1–9. <https://doi.org/10.1007/s10592-017-1044-5>

Potter, T. I., Greenville, A.C., Dickman, C.R., 2018. Assessing the potential for intraguild predation among taxonomically disparate micro-carnivores: Marsupials and arthropods. *Royal Society Open Science* 5, 19. <https://doi.org/10.1098/rsos.171872>

Potter, Tamara I., Stannard, H.J., Greenville, A.C., Dickman, C.R., 2018. Understanding selective predation: Are energy and nutrients important? *PLOS ONE* 13, 1–12. <https://doi.org/10.1371/journal.pone.0201300>

Pringle, M.J., Schmidt, M., Tindall, D.R., 2018. Multi-decade, multi-sensor time-series modelling—based on geostatistical concepts—to predict broad groups of crops. *Remote Sensing of Environment* 216, 183–200. <https://doi.org/10.1016/j.rse.2018.06.046>

Prober, S.M., Doerr, V.A.J., Broadhurst, L.M., Williams, K.J., Dickson, F., 2018. Shifting the conservation paradigm: a synthesis of options for renovating nature under climate change. *Ecological Monographs Not yet available, Not-yet available.* <https://doi.org/10.1002/ecm.1333>

Qinggaozi, Z., 2018. Modelling rainfall erosivity for dynamic hillslope erosion estimation in events of wildland fires, snowmelt, and extreme rainfall (PhD & Masters Theses). University of Technology, Sydney, Sydney, NSW.

Raes, E.J., Bodrossy, L., Van De Kamp, J., Bissett, A., Ostrowski, M., Brown, M.V., Sow, S.L.S., Sloyan, B., Waite, A.M., 2018. Oceanographic boundaries constrain microbial diversity gradients in the south pacific ocean. *Proceedings of the National Academy of Sciences of the United States of America* 115, E8266–E8275. <https://doi.org/10.1073/pnas.1719335115>

Raiter, K.G., Hobbs, R.J., Possingham, H.P., Valentine, L.E., Prober, S.M., 2018a. Vehicle tracks are predator highways in intact landscapes. *Biol. Conserv.* 228, 281–290. <https://doi.org/10.1016/j.biocon.2018.10.011>

Raiter, K.G., Prober, S.M., Possingham, H.P., Westcott, F., Hobbs, R.J., 2018b. Linear infrastructure impacts on landscape hydrology. *J. Environ. Manage.* 206, 446–457. <https://doi.org/10.1016/j.jenvman.2017.10.036>

Regmi, B.R., Paudyal, A., 2018. Chapter 2: Impact of Climate Change on Agriculture and Food Security from Socio-Economic Perspectives in Nepal, in: Climate Change Management: Special Topics in the Context of Asia. Business Expert Press, New York, p. 204.

Reiter, N., Lawrie, A.C., Linde, C.C., 2018. Matching symbiotic associations of an endangered orchid to habitat to improve conservation outcomes. *Annals of Botany* mcy094. <https://doi.org/10.1093/aob/mcy094>

Ren, S., Chen, X., Lang, W., Schwartz, M.D., 2018. Climatic Controls of the Spatial Patterns of Vegetation Phenology in Midlatitude Grasslands of the Northern Hemisphere. *Journal of Geophysical Research: Biogeosciences*. <https://doi.org/10.1029/2018JG004616>

Renchon, A.A., Griebel, A., Metzen, D., Williams, C.A., Medlyn, B., Duursma, R.A., Barton, C.V.M., Maier, C., Boer, M.M., Isaac, P., Tissue, D., Resco de Dios, V., Pendall, E., 2018. Upside-down fluxes Down Under: CO<sub>2</sub> net sink in

winter and net source in summer in a temperate evergreen broadleaf forest. *Biogeosciences* 15, 3703–3716. <https://doi.org/10.5194/bg-15-3703-2018>

Requena-Mullor, J.M., Reyes, A., Escribano, P., Cabello, J., 2018. Assessment of ecosystem functioning from space: Advancements in the Habitats Directive implementation. *Ecological Indicators* 89, 893–902. <https://doi.org/10.1016/j.ecolind.2017.12.036>

Richer-de-Forges, A.C., Carré, F., McBratney, A., Bouma, J., Arrouays, D. (Eds.), 2018. Global Soil Security: Towards More Science-Society Interfaces Proceedings of the Global Soil Security 2016 Conference, December 5–6, 2016, Paris, France, 1st Edition. ed. CRC Press, London.

Riihelä, A., Manninen, T., Key, J., Sun, Q., Sütterlin, M., Lattanzio, A., Schaaf, C., 2018. A Multisensor Approach to Global Retrievals of Land Surface Albedo. *Remote Sensing* 10, 848. <https://doi.org/10.3390/rs10060848>

Robinson, N.J., Dahlhaus, P.G., Wong, M., Macleod, A., Jones, D., Nicholson, C., 2018. Testing the public-private soil data and information sharing model for sustainable soil management outcomes. *Soil Use and Management* 0, NA. <https://doi.org/10.1111/sum.12472>

Robinson, N.M., MacGregor, C.I., Hradsky, B.A., Dexter, N., Lindenmayer, D.B., 2018. Bandicoots return to Booderee: initial survival, dispersal, home range and habitat preferences of reintroduced southern brown bandicoots (eastern sub species; *Isoodon obesulus obesulus*). *Wildl. Res.* 45, 132–142. <https://doi.org/10.1071/WR17040>

Robinson, N.P., Allred, B.W., Smith, W.K., Jones, M.O., Moreno, A., Erickson, T.A., Naugle, D.E., Running, S.W., Pettorelli, N., Paruelo, J., 2018. Terrestrial primary production for the conterminous United States derived from Landsat 30 m and MODIS 250 m. *Remote Sensing in Ecology and Conservation* 0. <https://doi.org/10.1002/rse2.74>

Rödenbeck, Christian, Sönke, Z., Keeling, R., Heimann, M., 2018. How does the terrestrial carbon exchange respond to interannual climatic variations? A quantification based on atmospheric CO<sub>2</sub> data. *Biogeosciences Discussions*. <https://doi.org/10.5194/bg-2018-34>

Rödenbeck, C., Zaehle, S., Keeling, R., Heimann, M., 2018. How does the terrestrial carbon exchange respond to inter-annual climatic variations? A quantification based on atmospheric CO<sub>2</sub> data. *Biogeosciences* 15, 2481–2498. <https://doi.org/10.5194/bg-15-2481-2018>

Rödig, E., Cuntz, M., Rammig, A., Fischer, R., Taubert, F., Huth, A., 2018. The importance of forest structure for carbon fluxes of the Amazon rainforest. *Environ. Res. Lett.* 13, 11. <https://doi.org/10.1088/1748-9326/aabc61>

Rödig, E., Cuntz, M., Rammig, A., Fischer, R., Taubert, F., Huth, A., 2018. The importance of forest structure for carbon flux estimates in the Amazon rainforest. *Environmental Research Letters*.

Rossetto, M., Bragg, J., Kilian, A., McPherson, H., van der Merwe, M., Wilson, P.D., 2018. Restore and Renew: a genomics-era framework for species provenance delimitation. *Restoration Ecology* Not yet available. <https://doi.org/10.1111/rec.12898>

Rowland, J.A., Nicholson, E., Keith, D.A., Lester, R.E., Bland, L.M., 2018. Selecting and applying indicators of ecosystem collapse for risk assessments. *Conservation Biolog.* <https://doi.org/10.1111/cobi.13107>

Rudiyanto, Minasny, B., Setiawan, B.I., Saptomo, S.K., McBratney, A.B., 2018. Open digital mapping as a cost-effective method for mapping peat thickness and assessing the carbon stock of tropical peatlands. *Geoderma* 313, 25–40. <https://doi.org/10.1016/j.geoderma.2017.10.018>

Rumman, R., Cleverly, J., Nolan, R.H., Tarin, T., Eamus, D., 2018. Speculations on the application of foliar  $^{13}\text{C}$  discrimination to reveal groundwater dependency of vegetation and provide estimates of root depth and rates of groundwater use. *Hydrology and Earth System Sciences* 22, 4875–4889. <https://doi.org/10.5194/hess-22-4875-2018>

Ryan, P.R., 2018. Assessing the role of genetics for improving the yield of Australia's major grain crops on acid soils. *Crop Pasture Sci.* 69, 242–264. <https://doi.org/10.1071/CP17310>

Ryu, Y., Jiang, C., Kobayashi, H., Detto, M., 2018. MODIS-derived global land products of shortwave radiation and diffuse and total photosynthetically active radiation at 5km resolution from 2000. *Remote Sensing of Environment* 204, 812–825. <https://doi.org/10.1016/j.rse.2017.09.021>

Setyantha, G.R., Utami, S.S., Hadi, S., 2018. Exploring the biodiversity in Alas Purwo National Park, East Java through soundscape ecology. *Journal of Physics: Conference Series* 1075, 012003. <https://doi.org/10.1088/1742-6596/1075/1/012003>

Shen, J., Huete, A., Tran, N.N., Devadas, R., Ma, X., Eamus, D., Yu, Q., 2018. Diverse sensitivity of winter crops over the growing season to climate and land surface temperature across the rainfed cropland-belt of eastern Australia. *Agric. Ecosyst. Environ.* 254, 99–110. <https://doi.org/10.1016/j.agee.2017.11.023>

Shokri, A., Walker, J.P., Dijk, A.I.J.M., Pauwels, V.R.N., 2018a. Performance of Different Ensemble Kalman Filter Structures to Assimilate GRACE Terrestrial Water Storage Estimates Into a High-Resolution Hydrological Model: A Synthetic Study. *Water Resources Research*. <https://doi.org/10.1029/2018WR022785>

Shokri, A., Walker, J.P., Dijk, A.I.J.M. van, Wright, A.J., Pauwels, V.R.N., 2018b. Application of the patient rule induction method to detect hydrologic model behavioural parameters and quantify uncertainty. *Hydrological Processes* 0. <https://doi.org/10.1002/hyp.11464>

Smith, A.L., Kujala, H., Lahoz-Monfort, J.J., Guja, L.K., Burns, E.L., Nathan, R., Alacs, E., Barton, P.S., Bau, S., Driscoll, D.A., Lentini, P.E., Mortelliti, A., Rowe, R., Buckley, Y.M., 2018. Managing uncertainty in movement knowledge for environmental decisions. *Conservation Letters* 0, e12620. <https://doi.org/10.1111/conl.12620>

Smith, W.K., Biederman, J.A., Scott, R.L., Moore, D.J.P., He, M., Kimball, J.S., Yan, D., Hudson, A., Barnes, M.L., MacBean, N., Fox, A.M., Litvak, M.E., 2018. Chlorophyll Fluorescence Better Captures Seasonal and Interannual Gross Primary Productivity Dynamics Across Dryland Ecosystems of Southwestern North America. *Geophys. Res. Lett.* 45, 748–757. <https://doi.org/10.1002/2017gl075922>

Specht, A., Bolton, M.P., Kingsford, B., Specht, R.L., Belbin, L., 2018. A story of data won, data lost and data re-found: the realities of ecological data preservation. *Biodiversity Data Journal* 6, e28073. <https://doi.org/10.3897/BDJ.6.e28073>

Stein, J.L., 2018. An Enhanced Pfafstetter Catchment Reference System. *Water Resources Research* 54, 9951–9963. <https://doi.org/10.1029/2018WR023218>

Stocker, B.D., Zscheischler, J., Keenan, T.F., Prentice, I.C., Peñuelas, J., Seneviratne, S.I., 2018. Quantifying soil moisture impacts on light use efficiency across biomes. *New Phytologist* 218, 1430–1449. <https://doi.org/10.1111/nph.15123>

Su, Y., Feng, Q., Zhu, G., Gu, C., Wang, Y., Shang, S., Zhang, K., Han, T., Chen, H., Ma, J., 2018. A hierarchical Bayesian approach for multi-site optimization of a satellite-based evapotranspiration model. *Hydrological Processes* 32, 3907–3923. <https://doi.org/10.1002/hyp.13298>

Sun, Q., Meyer, W.S., Marschner, P., 2018a. Direct and carry-over effects of summer rainfall on ecosystem carbon uptake and water use efficiency in a semi-arid woodland. *Agricultural and Forest Meteorology* 263, 15–24. <https://doi.org/10.1016/j.agrformet.2018.07.027>

Sun, Q., Meyer, W.S., Marschner, P., 2018b. Repeated rainfall in summer induces prolonged high soil respiration in a semi-arid floodplain woodland. *Ecohydrology* 11, e1984. <https://doi.org/10.1002/eco.1984>

Sun, Y., Frankenberg, C., Jung, M., Joiner, J., Guanter, L., Köhler, P., Magney, T., 2018. Overview of Solar-Induced chlorophyll Fluorescence (SIF) from the Orbiting Carbon Observatory-2: Retrieval, cross-mission comparison, and global monitoring for GPP. *Remote Sensing of Environment* 209, 808–823. <https://doi.org/10.1016/j.rse.2018.02.016>

Sun, Z., Wang, X., Yamamoto, H., Tani, H., Zhong, G., Yin, S., 2018. An attempt to introduce atmospheric CO<sub>2</sub> concentration data to estimate the gross primary production by the terrestrial biosphere and analyze its effects. *Ecological Indicators* 84, 218–234. <https://doi.org/10.1016/j.ecolind.2017.08.057>

Swenson, S.C., Burns, S.P., Lawrence, D.M., 2018. The Impact of Biomass Heat Storage on the Canopy Energy Balance and Atmospheric Stability in the Community Land Model. *Journal of Advances in Modeling Earth Systems* 0, NA. <https://doi.org/10.1029/2018MS001476>

Teng, H., Viscarra Rossel, R., Shi, Z., Behrens, T., 2018. Updating a national soil classification with spectroscopic predictions and digital soil mapping. *Catena* 164, 125–134.

Thackway, R., 2018. Chapter 9: National Coordination of Data and Information to Inform Land Use Policies and Programs: The Recent Past, the Present and Ideas for the Future, in: *Land Use in Australia: Past Present and Future*. ANU eView, The Australian National University, ACT, Australia, pp. 129–143.

Togashi, H.F., Atkin, O.K., Bloomfield, K.J., Bradford, M., Cao, K., Dong, N., Evans, B.J., Fan, Z., Harrison, S.P., Hua, Z., Liddell, M.J., Lloyd, J., Ni, J., Wang, H., Weerasinghe, L.K., Prentice, I.C., 2018. Functional trait variation related to gap dynamics in tropical moist forests: A vegetation modelling perspective. *Perspectives in Plant Ecology, Evolution and Systematics* 35, 52–64. <https://doi.org/10.1016/j.ppees.2018.10.004>

Tulloch, A.I.T., Auerbach, N., Avery-Gomm, S., Bayraktarov, E., Butt, N., Dickman, C.R., Ehmke, G., Fisher, D.O., Grantham, H., Holden, M.H., Lavery, T.H., Leseberg, N.P., Nicholls, M., O'Connor, J., Roberson, L., Smyth, A.K., Stone, Z., Tulloch, V., Turak, E., Wardle, G.M., Watson, J.E.M., 2018. A decision tree for assessing the risks and benefits of publishing biodiversity data. *Nature Ecology and Evolution* 2, 1209–1217. <https://doi.org/10.1038/s41559-018-0608-1>

Ukkola, A.M., Pitman, A.J., Donat, M.G., De Kauwe, M.G., Angélil, O., 2018. Evaluating the Contribution of Land-Atmosphere Coupling to Heat Extremes in CMIP5 Models. *Geophysical Research Letters* 0. <https://doi.org/10.1029/2018GL079102>

van Delden, L., Rowlings, D.W., Scheer, C., De Rosa, D., Grace, P.R., 2018. Effect of urbanization on soil methane and nitrous oxide fluxes in subtropical Australia. *Glob. Change Biol.* 24, 5695–5707. <https://doi.org/10.1111/gcb.14444>

van Gorsel, E., Cleverly, J., Beringer, J., Cleugh, H., Eamus, D., Hutley, L.B., Isaac, P., Prober, S., 2018. Preface: Ozflux: a network for the study of ecosystem carbon and water dynamics across Australia and New Zealand. *Biogeosciences* 15, 349–352. <https://doi.org/10.5194/bg-15-349-2018>

Verburg, K., Stockmann, U., Cocks, B., Manning, B., Austin, J., Glover, M., Thomas, M., Gallant, J., 2018. Soil water - methods to predict plant available water capacity (PAWC) using soil-landscape associations (Research Update), Gunnedah GRDC Grains Research Update 2018. Grains Research and Development Corporation, Gunnedah, NSW.

Volkova, L., Meyer, C.P., Haverd, V., Weston, C.J., 2018. A data - Model fusion methodology for mapping bushfire fuels for smoke emissions forecasting in forested landscapes of south-eastern Australia. *Journal of Environmental Management* 222, 21–29. <https://doi.org/10.1016/j.jenvman.2018.05.060>

von Buttlar, J., Zscheischler, J., Rammig, A., Sippel, S., Reichstein, M., Knohl, A., Jung, M., Menzer, O., Arain, M.A., Buchmann, N., Cescatti, A., Gianelle, D., Kiely, G., Law, B.E., Magliulo, V., Margolis, H., McCaughey, H., Merbold, L., Migliavacca, M., Montagnani, L., Oechel, W., Pavelka, M., Peichl, M., Rambal, S., Raschi, A., Scott, R.L., Vaccari, F.P., van Gorsel, E., Varlagin, A., Wohlfahrt, G., Mahecha, M.D., 2018. Impacts of droughts and extreme-temperature events on gross primary production and ecosystem respiration: a systematic assessment across ecosystems and climate zones. *Biogeosciences* 15, 1293–1318. <https://doi.org/10.5194/bg-15-1293-2018>

W, A.J., A, M.F., J, P.P., K, S.J.M., S, H., A, H.P., R, P.S., 2018. Initial Expansion of C4 Vegetation in Australia During the Late Pliocene. *Geophysical Research Letters*. <https://doi.org/10.1029/2018GL077833>

Wang, B., Waters, C., Orgill, S., Cowie, A., Clark, A., Liu, D.L., Simpson, M., McGowen, I., Sides, T., 2018a. Estimating soil organic carbon stocks using different modelling techniques in the semi-arid rangelands of eastern Australia. *Ecological Indicators* 88, 425–438. <https://doi.org/10.1016/j.ecolind.2018.01.049>

Wang, B., Waters, C., Orgill, S., Gray, J., Cowie, A., Clark, A., Liu, D.L., 2018b. High resolution mapping of soil organic carbon stocks using remote sensing variables in the semi-arid rangelands of eastern Australia. *Science of The Total Environment* 630, 367–378. <https://doi.org/10.1016/j.scitotenv.2018.02.204>

Wang, C., Chen, J., Tang, Y., Black, T.A., 2018. A Novel Method for Removing Snow Melting-Induced Fluctuation in GIMMS NDVI3g Data for Vegetation Phenology Monitoring: A Case Study in Deciduous Forests of North America. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* 11, 800–807. <https://doi.org/10.1109/JSTARS.2017.2778076>

Wang, E., Smith, C.J., Macdonald, B.C.T., Hunt, J.R., Xing, H., Denmead, O.T., Zeglin, S., Zhao, Z., Isaac, P., 2018. Making sense of cosmic-ray soil moisture measurements and eddy covariance data with regard to crop water use and field water balance. *Agricultural Water Management* 204, 271–280. <https://doi.org/10.1016/j.agwat.2018.04.017>

Wang, M., Chen, Y., Wu, X., Bai, Y., 2018. Forest-Type-Dependent Water Use Efficiency Trends Across the Northern Hemisphere. *Geophysical Research Letters* 0. <https://doi.org/10.1029/2018GL079093>

Wang, Z., Schaaf, C.B., Sun, Q., Shuai, Y., Román, M.O., 2018. Capturing rapid land surface dynamics with Collection V006 MODIS BRDF/NBAR/Albedo (MCD43) products. *Remote Sensing of Environment* 207, 50–64. <https://doi.org/10.1016/j.rse.2018.02.001>

Wardlaw, T.J., Grove, S.J., Hingston, A.B., Balmer, J.M., Forster, L.G., Musk, R.A., Read, S.M., 2018. Responses of flora and fauna in wet eucalypt production forest to the intensity of disturbance in the surrounding landscape. *Forest Ecology and Management* 409, 694–706. <https://doi.org/10.1016/j.foreco.2017.11.060>

Waters, C.M., Gonsalves, L., Law, B., Melville, G., Toole, I., Brassil, T., Tap, P., 2018. The effect of thinning on structural attributes of a low rainfall forest in eastern Australia. *Forest Ecology and Management* 409, 571–583. <https://doi.org/10.1016/j.foreco.2017.11.054>

Webb, J.R., Santos, I.R., Maher, D.T., Macdonald, B., Robson, B., Isaac, P., McHugh, I., 2018. Terrestrial versus aquatic carbon fluxes in a subtropical agricultural floodplain over an annual cycle. *Agricultural and Forest Meteorology* 260–261, 262–272. <https://doi.org/10.1016/j.agrformet.2018.06.015>

Wei, S., 2018. Impacts of Climate Extremes on Terrestrial Productivity (Ph.D). The City University of New York, New York, USA.

Wu, X., Xiao, X., Zhang, Y., He, W., Wolf, S., Chen, J., He, M., Gough, C.M., Qin, Y., Zhou, Y., Doughty, R., Blanken, P.D., 2018. Spatiotemporal Consistency of Four Gross Primary Production Products and Solar-Induced Chlorophyll Fluorescence in Response to Climate Extremes Across CONUS in 2012. *Journal of Geophysical Research: Biogeosciences* Not yet available, Not-yet available. <https://doi.org/10.1029/2018JG004484>

Wutzler, T., Lucas-Moffat, A., Migliavacca, M., Knauer, J., Sickel, K., Šigut, L., Menzer, O., Reichstein, M., 2018. Basic and extensible post-processing of eddy covariance flux data with REddyProc. *Biogeosciences Discussions* 2018, 1–39. <https://doi.org/10.5194/bg-2018-56>

Xia, S., Liu, Y., Yu, X., Fu, B., 2018. Challenges in coupling LTER with environmental assessments: An insight from potential and reality of the Chinese Ecological Research Network in servicing environment assessments. *Science of The Total Environment* 633, 1302–1313. <https://doi.org/10.1016/j.scitotenv.2018.03.284>

Xie, Y., Cook, P.G., Simmons, C.T., Partington, D., Crosbie, R., Batelaan, O., 2018a. Uncertainty of groundwater recharge estimated from a water and energy balance model. *Journal of Hydrology* 561, 1081–1093. <https://doi.org/10.1016/j.jhydrol.2017.08.010>

Xie, Y., Crosbie, R., Simmons, C.T., Cook, P.G., Zhang, L., 2018b. Uncertainty assessment of spatial-scale groundwater recharge estimated from unsaturated flow modelling. *Hydrogeology Journal*. <https://doi.org/10.1007/s10040-018-1840-0>

Xie, Y., Crosbie, R., Yang, J., Wu, J., Wang, W., 2018c. Usefulness of Soil Moisture and Actual Evapotranspiration Data for Constraining Potential Groundwater Recharge in Semiarid Regions. *Water Resources Research* 54, 4929–4945. <https://doi.org/10.1029/2018WR023257>

Xing, L., Jingfeng, X., Binbin, H., M.Altaf, A., Jason, B., R, D.A., Carmen, E., Y, H.D., Alisa, K., Ivan, M., M, N.S., Penélope, S.O., Camilo, R.-S., V, R.A., Andrej, V., 2018. Solar-induced chlorophyll fluorescence is strongly correlated with terrestrial photosynthesis for a wide variety of biomes: First global analysis based on OCO-2 and flux tower observations. *Global Change Biology*. <https://doi.org/10.1111/gcb.14297>

Xu, B., Li, J., Park, T., Liu, Q., Zeng, Y., Yin, G., Zhao, J., Fan, W., Yang, L., Knyazikhin, Y., Myneni, R.B., 2018a. An integrated method for validating long-term leaf area index products using global networks of site-based measurements. *Remote Sensing of Environment* 209, 134–151. <https://doi.org/10.1016/j.rse.2018.02.049>

Xu, B., Park, T., Yan, K., Chen, C., Zeng, Y., Song, W., Yin, G., Li, J., Liu, Q., Knyazikhin, Y., Myneni, R.B., 2018b. Analysis of Global LAI/FPAR Products from VIIRS and MODIS Sensors for Spatio-Temporal Consistency and Uncertainty from 2012–2016. *Forests* 9, 73. <https://doi.org/10.3390/f9020073>

Yang, J., Medlyn, B.E., De Kauwe, M.G., Duursma, R.A., 2018. Applying the Concept of Ecohydrological Equilibrium to Predict Steady State Leaf Area Index. *Journal of Advances in Modeling Earth Systems*. <https://doi.org/10.1029/2017MS001169>

Yang, K., Ryu, Y., Dechant, B., Berry, J.A., Hwang, Y., Jiang, C., Kang, M., Min, J., Kimm, H., Kornfeld, A., Yang, X., 2018. Sun-induced chlorophyll fluorescence is more strongly related to absorbed light than to photosynthesis at half-hourly resolution in a rice paddy. *Remote Sens. Environ.* 216, 658–673. <https://doi.org/10.1016/j.rse.2018.07.008>

Yang, X., Zhu, Q., Tulau, M., McInnes-Clarke, S., Sun, L., Zhang, X., 2018. Near real-time monitoring of post-fire erosion after storm events: a case study in Warrumbungle National Park, Australia. *Int. J. Wildland Fire*. <https://doi.org/10.1071/WF18011>

Yeganeh, B., Hewson, M.G., Clifford, S., Tavassoli, A., Knibbs, L.D., Morawska, L., 2018. Estimating the spatiotemporal variation of NO<sub>2</sub> concentration using an adaptive neuro-fuzzy inference system. *Environmental Modelling and Software* 100, 222–235. <https://doi.org/10.1016/j.envsoft.2017.11.031>

Yu, L., Wen, J., Chang, C.Y., Frankenberg, C., Sun, Y., 2018. High Resolution Global Contiguous Solar-Induced Chlorophyll Fluorescence (SIF) of Orbiting Carbon Observatory-2 (OCO-2). *Geophysical Research Letters* 0, NA. <https://doi.org/10.1029/2018GL081109>

Yuan, M., Wang, L., Lin, A., Liu, Z., Qu, S., 2018. Variations in land surface phenology and their response to climate change in Yangtze River basin during 1982–2015. *Theoretical and Applied Climatology* 1–16. <https://doi.org/10.1007/s00704-018-2699-7>

Zhang, S., Zhang, J., Bai, Y., Koju, U.A., Igbawua, T., Chang, Q., Zhang, D., Yao, F., 2018. Evaluation and improvement of the daily boreal ecosystem productivity simulator in simulating gross primary productivity at 41 flux sites across Europe. *Ecological Modelling* 368, 205–232. <https://doi.org/10.1016/j.ecolmodel.2017.11.023>

Zhang, Y., Xiao, X.M., Zhang, Y.G., Wolf, S., Zhou, S., Joiner, J., Guanter, L., Verma, M., Sun, Y., Yang, X., Paul-Limoges, E., Gough, C.M., Wohlfahrt, G., Gioli, B., van der Tol, C., Yann, N., Lund, M., de Grandcourt, A., 2018. On the relationship between sub-daily instantaneous and daily total gross primary production: Implications for interpreting satellite-based SIF retrievals. *Remote Sens. Environ.* 205, 276–289. <https://doi.org/10.1016/j.rse.2017.12.009>

Zhou, Y., Zhou, G., Du, H., Shi, Y., Mao, F., Liu, Y., Xu, L., Li, X., Xu, X., 2018. Biotic and abiotic influences on monthly variation in carbon fluxes in on-year and off-year Moso bamboo forest. *Trees* 1–17. <https://doi.org/10.1007/s00468-018-1765-1>

Zhu, L., Bloomfield, K.J., Hocart, C.H., Egerton, J.J.G., O'Sullivan, O.S., Penillard, A., Weerasinghe, L.K., Atkin, O.K., 2018. Plasticity of photosynthetic heat tolerance in plants adapted to thermally contrasting biomes. *Plant, Cell & Environment* n/a-n/a. <https://doi.org/10.1111/pce.13133>

---

## 2017

---

Alemohammad, S.H., Fang, B., Konings, A.G., Aires, F., Green, J.K., Kolassa, J., Miralles, D.G., Prigent, C., Gentine, P., 2017. Water, Energy, and Carbon with Artificial Neural Networks (WECANN): a statistically based estimate of global surface turbulent fluxes and gross primary productivity using solar-induced fluorescence. *Biogeosciences* 14, 4101–4124. <https://doi.org/10.5194/bg-14-4101-2017>

Algergawy, A., Karam, N., Klan, F., Jonquet, C., 2017. Proceedings of the 2nd International Workshop on Semantics for Biodiversity, S4BioDiv'17. CEUR, Vienna, Australia.

Apgaua, D.M.G., Tng, D.Y.P., Cernusak, L.A., Cheesman, A.W., Santos, R.M., Edwards, W.J., Laurance, S.G.W., 2017. Plant functional groups within a tropical forest exhibit different wood functional anatomy. *Funct. Ecol.* 31, 582–591. <https://doi.org/10.1111/1365-2435.12787>

Arcoverde, G.B., Andersen, A.N., Setterfield, S.A., 2017. Is livestock grazing compatible with biodiversity conservation? Impacts on savanna ant communities in the Australian seasonal tropics. *Biodivers. Conserv.* 26, 883–897. <https://doi.org/10.1007/s10531-016-1277-5>

Arrouays, D., Lagacherie, P., Hartemink, A.E., 2017. Digital soil mapping across the globe. *Geoderma Regional* 9, 1–4. <https://doi.org/10.1016/j.geodrs.2017.03.002>

Arrouays, Dominique, Leenaars, J.G.B., Richer-de-Forges, A.C., Adhikari, K., Ballabio, C., Greve, M., Grundy, M., Guerrero, E., Hempel, J., Hengl, T., Heuvelink, G., Batjes, N., Carvalho, E., Hartemink, A., Hewitt, A., Hong, S.-Y., Krailnikov, P., Lagacherie, P., Lelyk, G., Libohova, Z., Lilly, A., McBratney, A., McKenzie, N., Vasquez, G.M., Mulder, V.L., Minasny, B., Montanarella, L., Odeh, I., Padarian, J., Poggio, L., Roudier, P., Saby, N., Savin, I., Searle, R., Solbovoy, V., Thompson, J., Smith, S., Sulaeman, Y., Vintila, R., Rossel, R.V., Wilson, P., Zhang, G.-L., Swerts, M., Oorts, K., Karklins, A., Feng, L., Navarro, A.R.I., Levin, A., Laktionova, T., Dell'Acqua, M., Suvannang, N., Ruam, W., Prasad, J., Patil, N., Husnjak, S., Pásztor, L., Okx, J., Hallett, S., Keay, C., Farewell, T., Lilja, H., Juilleret, J., Marx, S., Takata, Y., Kazuyuki, Y., Mansuy, N., Panagos, P., Liedekerke, M.V., Skalsky, R., Sobocka, J., Kobza, J., Eftekhari, K., Alavipanah, S.K., Moussadek, R., Badraoui, M., Silva, M.D., Paterson, G., Gonçalves, M. da C., Theocaropoulos, S., Yemefack, M., Tedou, S., Vrscaj, B., Grob, U., Kozák, J., Boruvka, L., Dobos, E., Taboada, M., Moretti, L., Rodriguez, D., 2017a. Soil legacy data rescue via GlobalSoilMap and other international and national initiatives. *GeoResJ* 14, 1–19. <https://doi.org/10.1016/j.grj.2017.06.001>

Arrouays, Dominique, Minasny, B., McBratney, A., Grundy, M., McKenzie, N., Thompson, J., Gimona, A., Hong, S.Y., Smith, S., Hartemink, A., Chen, S., Martin, M.P., Mulder, V.L., Richer-de-Forges, A.C., Odeh, I., Padarian, J., Lelyk, G., Poggio, L., Savin, I., Stolbovoy, V., Sulaeman, Y., Nursyamsi, D., Zhang, G.-L., Greve, M.H., Libohova, Z., Lagacherie, P., Roudier, P., Leenaars, J.G.B., Heuvelink, G.B.M., Montanarella, L., Panagos, P., Hempel, J., 2017b. GlobalSoilMap for Soil Organic Carbon Mapping and as a Basis for Global Modeling. Presented at the GLOBAL SYMPOSIUM ON SOIL ORGANIC CARBON, p. 6.

Azmi, M., Rüdiger, C., Walker, J.P., 2017. Statistical analysis of short-term water stress conditions at Riggs Creek OzFlux tower site. *Theoretical and Applied Climatology* 130, 497–509. <https://doi.org/10.1007/s00704-016-1901-z>

Badgley, G., Field, C.B., Berry, J.A., 2017. Canopy near-infrared reflectance and terrestrial photosynthesis. *SCIENCE ADVANCES* 3. <https://doi.org/10.1126/sciadv.1602244>

Baker, T.R., Pennington, R.T., Dexter, K.G., Fine, P.V.A., Fortune-Hopkins, H., Honorio, E.N., Huamantupa-Chuquimaco, I., Klitgård, B.B., Lewis, G.P., Lima, H.C. de, Ashton, P., Baraloto, C., Davies, S., Donoghue, M.J., Kaye, M., Kress, W.J., Lehmann, C.E.R., Monteagudo, A., Phillips, O.L., Vasquez, R., 2017. Maximising Synergy among Tropical Plant Systematists, Ecologists, and Evolutionary Biologists. *Trends in Ecology & Evolution* 32, 258–267. <https://doi.org/10.1016/j.tree.2017.01.007>

Baron, J.S., Specht, A., Garnier, E., Bishop, P., Campbell, C.A., Davis, F.W., Fady, B., Field, D., Gross, L.J., Guru, S.M., Halpern, B.S., Hampton, S.E., Leavitt, P.R., Meagher, T.R., Ometto, J., Parker, J.N., Price, R., Rawson, C.H., Rodrigo, A., Sheble, L.A., Winter, M., 2017. Synthesis Centers as Critical Research Infrastructure. BIOSCIENCE 67, 750–759. <https://doi.org/10.1093/biosci/bix053>

Barraza, V., Restrepo-Coupe, N., Huete, A., Grings, F., Beringer, J., Cleverly, J., Eamus, D., 2017. Estimation of latent heat flux over savannah vegetation across the North Australian Tropical Transect from multiple sensors and global meteorological data. Agricultural and Forest Meteorology 232, 689–703.  
<https://doi.org/10.1016/j.agrformet.2016.10.013>

Baruch, Z., Christmas, M.J., Breed, M.F., Guerin, G.R., Caddy-Retalic, S., McDonald, J., Jardine, D.I., Leitch, E., Gellie, N., Hill, K., McCallum, K., Lowe, A.J., 2017. Leaf trait associations with environmental variation in the wide-ranging shrub Dodonaea viscosa subsp. angustissima (Sapindaceae). Austral Ecology 42, 553–561.  
<https://doi.org/10.1111/aec.12474>

Bassiouni, M., Higgins, C.W., Still, C.J., Good, S.P., 2017. Probabilistic inference of ecohydrological parameters using observations from point to satellite scales. Hydrology and Earth System Sciences Discussions NA, 26.  
<https://doi.org/10.5194/hess-2017-675>

Bastin, J.F., Berrahmouni, N., Grainger, A., Maniatis, D., Mollicone, D., Moore, R., Patriarca, C., Picard, N., Sparrow, B., Abraham, E.M., Aloui, K., Atesoglu, A., Attorre, F., Bassullu, C., Bey, A., Garzuglia, M., Garcia-Montero, L.G., Groot, N., Guerin, G., Laestadius, L., Lowe, A.J., Mamane, B., Marchi, G., Patterson, P., Rezende, M., Ricci, S., Salcedo, I., Diaz, A.S.P., Stolle, F., Surappaeva, V., Castro, R., 2017a. The extent of forest in dryland biomes. Science 356, 635–638. <https://doi.org/10.1126/science.aam6527>

Bastin, J.F., Mollicone, D., Grainger, A., Sparrow, B., Picard, N., Lowe, A., Castro, R., 2017b. Response to Comment on “The extent of forest in dryland biomes.” SCIENCE 358. <https://doi.org/10.1126/science.aoa2070>

Beck, H.E., van Dijk, A., Levizzani, V., Schellekens, J., Miralles, D.G., Martens, B., de Roo, A., 2017. MSWEP: 3-hourly 0.25 degrees global gridded precipitation (1979–2015) by merging gauge, satellite, and reanalysis data. Hydrol. Earth Syst. Sci. 21, 589–615. <https://doi.org/10.5194/hess-21-589-2017>

Beringer, J., McHugh, I., Hustley, L.B., Isaac, P., Kljun, N., 2017. Technical note: Dynamic INtegrated Gap-filling and partitioning for OzFlux (DINGO). Biogeosciences 14, 1457–1460. <https://doi.org/10.5194/bg-14-1457-2017>

Biederman, J.A., Scott, R.L., Bell, T.W., Bowling, D.R., Dore, S., Garatuza-Payan, J., Kolb, T.E., Krishnan, P., Krofcheck, D.J., Litvak, M.E., Maurer, G.E., Meyers, T.P., Oechel, W.C., Papuga, S.A., Ponce-Campos, G.E., Rodriguez, J.C., Smith, W.K., Vargas, R., Watts, C.J., Yepez, E.A., Goulden, M.L., 2017. CO<sub>2</sub> exchange and evapotranspiration across dryland ecosystems of southwestern North America. Global Change Biology 23, 4204–4221. <https://doi.org/10.1111/gcb.13686>

Binesh, A., Yeo, I.-Y., 2017. Modelling changing catchment under the climate variability: a case study from a semi-arid catchment in the upper basin of the Goulburn River. Presented at the The 22nd International Congress on Modelling and Simulation (MODSIM2017), Hobart, Tasmania, p. 8.

Blair, D.P., Blanchard, W., Banks, S.C., Lindenmayer, D.B., 2017. Non-linear growth in tree ferns, Dicksonia antarctica and Cyathea australis. PLOS ONE 12, 1–15. <https://doi.org/10.1371/journal.pone.0176908>

Bland, L.M., Regan, T.J., Dinh, M.N., Ferrari, R., Keith, D.A., Lester, R., Mouillot, D., Murray, N.J., Nguyen, H.A., Nicholson, E., 2017. Using multiple lines of evidence to assess the risk of ecosystem collapse. PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 284. <https://doi.org/10.1098/rspb.2017.0660>

Boer, M.M., Nolan, R.H., Resco De Dios, V., Clarke, H., Price, O.F., Bradstock, R.A., 2017. Changing weather extremes call for early warning of potential for catastrophic fire. Earth's Future n/a-n/a.  
<https://doi.org/10.1002/2017EF000657>

Buettel, J.C., Ondei, S., Brook, B.W., 2017. A practical method for creating a digital topographic surface for ecological plots using ground-based measurements. *Landscape Ecology*. <https://doi.org/10.1007/s10980-017-0598-4>

Bunting, P., 2017. Pre-processing of Remotely Sensed Imagery, in: Díaz-Delgado, R., Lucas, R., Hurford, C. (Eds.), *The Roles of Remote Sensing in Nature Conservation: A Practical Guide and Case Studies*. Springer International Publishing, Cham, pp. 39–63. [https://doi.org/10.1007/978-3-319-64332-8\\_3](https://doi.org/10.1007/978-3-319-64332-8_3)

Burrell, A.L., Evans, J.P., Liu, Y., 2017. Detecting dryland degradation using Time Series Segmentation and Residual Trend analysis (TSS-RESTREND). *Remote Sensing of Environment* 197, 43–57. <https://doi.org/10.1016/j.rse.2017.05.018>

Bush, A., Catullo, R.A., Mokany, K., Thornhill, A.H., Miller, J.T., Ferrier, S., 2017. Truncation of thermal tolerance niches among Australian plants. *Global Ecology and Biogeography* n/a-n/a. <https://doi.org/10.1111/geb.12637>

Caddy-Retalic, S., Andersen, A.N., Aspinwall, M.J., Breed, M.F., Byrne, M., Christmas, M.J., Dong, N., Evans, B.J., Fordham, D.A., Guerin, G.R., Hoffmann, A.A., Hughes, A.C., Leeuwen, S.J., McInerney, F.A., Prober, S.M., Rossetto, M., Rymer, P.D., Steane, D.A., Wardle, G.M., Lowe, A.J., 2017. Bioclimatic transect networks: Powerful observatories of ecological change. *Ecology and Evolution* 7, 4607–4619. <https://doi.org/10.1002/ece3.2995>

Calders, K., Disney, M.I., Armston, J., Burt, A., Brede, B., Origo, N., Muir, J., Nightingale, J., 2017. Evaluation of the range accuracy and the radiometric calibration of multiple terrestrial laser scanning instruments for data interoperability. *IEEE Transactions on Geoscience and Remote Sensing* 55, 2716–2724. <https://doi.org/10.1109/TGRS.2017.2652721>

Chen, X., Su, Z., Ma, Y., Cleverly, J., Liddell, M., 2017. An Accurate Estimate of Monthly Mean Land Surface Temperatures from MODIS Clear-Sky Retrievals. *Journal of Hydrometeorology* 18, 2827–2847. <https://doi.org/10.1175/JHM-D-17-0009.1>

Cheng, L., Zhang, L., Wang, Y.-P., Canadell, J.G., Chiew, F.H.S., Beringer, J., Li, L., Miralles, D.G., Piao, S., Zhang, Y., 2017. Recent increases in terrestrial carbon uptake at little cost to the water cycle. *Nature Communications* 8, 110. <https://doi.org/10.1038/s41467-017-00114-5>

Christmas, M.J., Biffin, E., Breed, M.F., Lowe, A.J., 2017. Targeted capture to assess neutral genomic variation in the narrow-leaf hopbush across a continental biodiversity refugium. *Sci Rep* 7, 41367. <https://doi.org/10.1038/srep41367>

Chu, H., Baldocchi, D.D., John, R., Wolf, S., Reichstein, M., 2017. Fluxes all of the time? A primer on the temporal representativeness of FLUXNET. *Journal of Geophysical Research: Biogeosciences* 122, 289–307. <https://doi.org/10.1002/2016JG003576>

Colin, B., Clifford, S., Wu, P., Rathmanner, S., Mengersen, K., 2017. Using Boosted Regression Trees and Remotely Sensed Data to Drive Decision-Making. *Open Journal of Statistics* 7, 17. <https://doi.org/10.4236/ojs.2017.75061>

Cook, G.D., Meyer, M.C.P., 2017. Seasonal variation in fine fuel accumulation in savannas (Analysis and recommendations to support two draft Emissions Reduction Fund methodologies No. 1). CSIRO, Australia.

Crosbie, R.S., Peeters, L.J.M., Herron, N., McVicar, T.R., Herr, A., 2017. Estimating groundwater recharge and its associated uncertainty: Use of regression kriging and the chloride mass balance method. *Journal of Hydrology*. <https://doi.org/10.1016/j.jhydrol.2017.08.003>

Csavina, J., Roberti, J.A., Taylor, J.R., Loescher, H.W., 2017. Traceable measurements and calibration: a primer on uncertainty analysis. *ECOSPHERE* 8. <https://doi.org/10.1002/ecs2.1683>

Dahlhaus, P., Thompson, H., MacLeod, A., 2017. Towards data democracy in digital agriculture, in: Proceedings of the 18th Australian Society of Agronomy Conference. Presented at the 18th Australian Society of Agronomy Conference, Australian Society of Agronomy, Ballarat, Australia, p. 4.

De Kauwe, M.G., Medlyn, B.E., Knauer, J., Williams, C.A., 2017. Ideas and perspectives: how coupled is the vegetation to the boundary layer? *Biogeosciences* 14, 4435–4453. <https://doi.org/10.5194/bg-14-4435-2017>

De Keersmaecker, W., Lhermitte, S., Hill, M.J., Tits, L., Coppin, P., Somers, B., 2017. Assessment of Regional Vegetation Response to Climate Anomalies: A Case Study for Australia Using GIMMS NDVI Time Series between 1982 and 2006. *REMOTE SENSING* 9. <https://doi.org/10.3390/rs9010034>

Delhey, K., 2017. Darker where cold and wet: Australian birds follow their own version of Gloger's rule. *Ecography* n/a-n/a. <https://doi.org/10.1111/ecog.03040>

Dios, V.R. de, Gessler, A., 2017. Circadian regulation of photosynthesis and transpiration from genes to ecosystems. *Environmental and Experimental Botany*. <https://doi.org/10.1016/j.envexpbot.2017.09.010>

Dirmeyer, P.A., Chen, L., Wu, J., Shin, C.-S., Huang, B., Cash, B.A., Bosilovich, M.G., Mahanama, S., Koster, R.D., Santanello, J.A., Ek, M.B., Balsamo, G., Dutra, E., Lawrence, D.M., 2017. Verification of land-atmosphere coupling in forecast models, reanalyses and land surface models using flux site observations. *Journal of Hydrometeorology* 0, null. <https://doi.org/10.1175/JHM-D-17-0152.1>

Dong, J., Li, L., Shi, H., Chen, X., Luo, G., Yu, Q., 2017. Robustness and Uncertainties of the "Temperature and Greenness" Model for Estimating Terrestrial Gross Primary Production. *Scientific Reports* 7, 44046. <https://doi.org/10.1038/srep44046>

Dong, N., Prentice, I.C., Evans, B.J., Caddy-Retalic, S., Lowe, A.J., Wright, I.J., 2017. Leaf nitrogen from first principles: field evidence for adaptive variation with climate. *Biogeosciences* 14, 481–495. <https://doi.org/10.5194/bg-14-481-2017>

Dryland forests recorded, 2017. . *Farmer's Weekly* 2017, 14–27.

Fares, S., Bajocco, S., Salvati, L., Camarretta, N., Dupuy, J.-L., Xanthopoulos, G., Guijarro, M., Madrigal, J., Hernando, C., Corona, P., 2017. Characterizing potential wildland fire fuel in live vegetation in the Mediterranean region. *ANNALS OF FOREST SCIENCE* 74. <https://doi.org/10.1007/s13595-016-0599-5>

Feng, F., Li, X., Yao, Y., Liu, M., 2017. Long-term spatial distributions and trends of the latent heat fluxes over the global cropland ecosystem using multiple satellite-based models. *PLOS ONE* 12, 1–18. <https://doi.org/10.1371/journal.pone.0183771>

Fest, B., Hinko-Najera, N., von Fischer, J.C., Livesley, S.J., Arndt, S.K., 2017. Soil methane uptake increases under continuous throughfall reduction in a temperate evergreen, broadleaved eucalypt forest. *Ecosystems* 20, 368–379. <https://doi.org/10.1007/s10021-016-0030-y>

Fest, B.J., Hinko-Najera, N., Wardlaw, T., Griffith, D.W.T., Livesley, S.J., Arndt, S.K., 2017. Soil methane oxidation in both dry and wet temperate eucalypt forests shows a near-identical relationship with soil air-filled porosity. *Biogeosciences* 14, 467–479. <https://doi.org/10.5194/bg-14-467-2017>

Foster, C.N., Barton, P.S., MacGregor, C.I., Catford, J.A., Blanchard, W., Lindenmayer, D.B., 2017a. Effects of fire regime on plant species richness and composition differ among forest, woodland and heath vegetation. *Applied Vegetation Science* n/a-n/a. <https://doi.org/10.1111/avsc.12345>

Foster, C.N., Barton, P.S., Robinson, N.M., MacGregor, C.I., Lindenmayer, D.B., 2017b. Effects of a large wildfire on vegetation structure in a variable fire mosaic. *Ecological Applications* 27, 2369–2381.  
<https://doi.org/10.1002/eap.1614>

Fountain-Jones, N.M., Jordan, G.J., Burridge, C.P., Wardlaw, T.J., Baker, T.P., Forster, L., Petersfield, M., Baker, S.C., 2017. Trophic position determines functional and phylogenetic recovery after disturbance within a community. *Funct. Ecol.* 31, 1441–1451. <https://doi.org/10.1111/1365-2435.12845>

Fu, W., 2017. Integrating In-Situ Measurements, Land Surface Models and Satellite Remote Sensing to Understand Impacts of Environmental Changes on Terrestrial Ecosystem Processes at Multiple Scales (PhD Thesis). The University of Texas, Austin, Texas, USA.

Fu, Z., Stoy, P.C., Luo, Y.Q., Chen, J.Q., Sun, J., Montagnani, L., Wohlfahrt, G., Rahman, A.F., Rambal, S., Bernhofer, C., Wang, J.S., Shirkey, G., Niu, S.L., 2017. Climate controls over the net carbon uptake period and amplitude of net ecosystem production in temperate and boreal ecosystems. *Agric. For. Meteorol.* 243, 9–18. <https://doi.org/10.1016/j.agrformet.2017.05.009>

Gage, S. H., Wimmer, J., Tarrant, T., Grace, P.R., 2017. Acoustic patterns at the Samford Ecological Research Facility in South East Queensland, Australia: The Peri-Urban SuperSite of the Terrestrial Ecosystem Research Network. *Ecol. Inform.* 38, 62–75. <https://doi.org/10.1016/j.ecoinf.2017.01.0021574-9541>

Gage, S.H., Wimmer, J., Tarrant, T., Grace, P.R., 2017. Acoustic patterns at the Samford Ecological Research Facility in South East Queensland, Australia: The Peri-Urban SuperSite of the Terrestrial Ecosystem Research Network. *Ecological Informatics* 38, 62–75. <https://doi.org/10.1016/j.ecoinf.2017.01.002>

Galvagno, M., Wohlfahrt, G., Cremonese, E., Filippa, G., Migliavacca, M., di Cella, U.M., van Gorsel, E., 2017. Contribution of advection to nighttime ecosystem respiration at a mountain grassland in complex terrain. *Agric. For. Meteorol.* 237, 270–281.

Gevaert, A.I., Miralles, D.G., de Jeu, R.A.M., Schellekens, J., Dolman, A.J., 2017. Soil Moisture-Temperature Coupling in a Set of Land Surface Models. *Journal of Geophysical Research: Atmospheres* 123, 1481–1498. <https://doi.org/10.1002/2017JD027346>

Ghamisi, P., Cavallaro, G., Wu, D., Benediktsson, J.A., Plaza, A., 2017. Integration of LiDAR and Hyperspectral Data for Land-cover Classification: A Case Study. *CoRR* abs/1707.02642.

Gibson, N., Prober, S., Meissner, R., van Leeuwen, S., 2017. Implications of high species turnover on the south-western Australian sandplains. *PLoS One* 12, 18. <https://doi.org/10.1371/journal.pone.0172977>

Gonzalez-Astudillo, V., Allavena, R., McKinnon, A., Larkin, R., Henning, J., 2017. Decline causes of Koalas in South East Queensland, Australia: a 17-year retrospective study of mortality and morbidity. *SCIENTIFIC REPORTS* 7. <https://doi.org/10.1038/srep42587>

Goodrich, J.P., Campbell, D.I., Schipper, L.A., 2017. Southern Hemisphere bog persists as a strong carbon sink during droughts. *Biogeosciences* 14, 4563–4576. <https://doi.org/10.5194/bg-14-4563-2017>

Gordon, S., Habermann, T., 2017. The influence of community recommendations on metadata completeness. *Ecological Informatics*. <https://doi.org/10.1016/j.ecoinf.2017.09.005>

Greenville, A.C., Wardle, G.M., Dickman, C.R., 2017. Desert mammal populations are limited by introduced predators rather than future climate change. *Royal Society Open Science* 4. <https://doi.org/10.1098/rsos.170384>

Griebel, A., Bennett, L.T., Arndt, S.K., 2017. Evergreen and ever growing - Stem and canopy growth dynamics of a temperate eucalypt forest. *For. Ecol. Manage.* 389, 417–426. <https://doi.org/10.1016/j.foreco.2016.12.017>

Griebel, Anne, Watson, D., Pendall, E., 2017. Mistletoe, friend and foe: synthesizing ecosystem implications of mistletoe infection. *Environmental Research Letters* 12, 115012.

Guerin, G., Sparrow, B., Tokmakoff, A., Smyth, A., Leitch, E., 2017. Standardised vegetation survey and monitoring data across the Australian rangelands from TERN AusPlots. Presented at the AUSTRALIAN RANGELAND SOCIETY 19th BIENNIAL CONFERENCE, Australian Rangeland Society, p. 8.

Guerin, G.R., 2017. Monitoring diversity and tree demography in vegetation communities of the Mount Lofty - Flinders Ranges. *The South Australian Naturalist* 91, 56–67.

Guerin, G.R., Sparrow, B., Tokmakoff, A., Smyth, A., Leitch, E., Baruch, Z., Lowe, A.J., 2017. Opportunities for integrated ecological analysis across inland Australia with standardised data from ausplots rangelands. *PLoS ONE* 12. <https://doi.org/10.1371/journal.pone.0170137>

Guo, D., Westra, S., Maier, H.R., 2017. Impact of evapotranspiration process representation on runoff projections from conceptual rainfall-runoff models. *WATER RESOURCES RESEARCH* 53, 435–454. <https://doi.org/10.1002/2016WR019627>

Haeni, M., Zweifel, R., Eugster, W., Gessler, A., Zielis, S., Bernhofer, C., Carrara, A., Grunwald, T., Havrankova, K., Heinesch, B., Herbst, M., Ibrom, A., Knohl, A., Lagergren, F., Law, B.E., Marek, M., Matteucci, G., McCaughey, J.H., Minerbi, S., Montagnani, L., Moors, E., Olejnik, J., Pavelka, M., Pilegaard, K., Pita, G., Rodrigues, A., Sanchez, M.J.S., Schelhaas, M.J., Urbaniak, M., Valentini, R., Varlagin, A., Vesala, T., Vincke, C., Wu, J., Buchmann, N., 2017. Winter respiratory C losses provide explanatory power for net ecosystem productivity. *J. Geophys. Res.-Biogeosci.* 122, 243–260. <https://doi.org/10.1002/2016jg003455>

Hageer, Y., Esperón-Rodríguez, M., Baumgartner, J.B., Beaumont, L.J., 2017. Climate, soil or both? Which variables are better predictors of the distributions of Australian shrub species? *PeerJ* 5, e3446. <https://doi.org/10.7717/peerj.3446>

Hampton, S.E., Jones, M.B., Wasser, L.A., Schildhauer, M.P., Supp, S.R., Brun, J., Hernandez, R.R., Boettiger, C., Collins, S.L., Gross, L.J., Fernández, D.S., Budden, A., White, E.P., Teal, T.K., Labou, S.G., Aukema, J.E., 2017. Skills and Knowledge for Data-Intensive Environmental Research. *BioScience* 67, 546–557. <https://doi.org/10.1093/biosci/bix025>

Harpole, W.S., Sullivan, L.L., Lind, E.M., Firn, J., Adler, P.B., Borer, E.T., Chase, J., Fay, P.A., Hautier, Y., Hillebrand, H., MacDougall, A.S., Seabloom, E.W., Bakker, J.D., Cadotte, M.W., Chaneton, E.J., Chu, C., Hagenah, N., Kirkman, K., La Pierre, K.J., Moore, J.L., Morgan, J.W., Prober, S.M., Risch, A.C., Schuetz, M., Stevens, C.J., 2017. Out of the shadows: multiple nutrient limitations drive relationships among biomass, light and plant diversity. *Functional Ecology* 31, 1839–1846. <https://doi.org/10.1111/1365-2435.12967>

Haughton, N., Abramowitz, G., Pitman, A.J., 2017. On the Predictability of Land Surface Fluxes from Meteorological Variables. *Geoscientific Model Development* 2017, 1–27. <https://doi.org/10.5194/gmd-2017-153>

Haverd, V., Ahlström, A., Smith, B., Canadell, J.G., 2017. Carbon cycle responses of semi-arid ecosystems to positive asymmetry in rainfall. *Global Change Biology* 23, 793–800. <https://doi.org/10.1111/gcb.13412>

He, L., Chen, J.M., Croft, H., Gonsamo, A., Luo, X., Liu, J., Zheng, T., Liu, R., Liu, Y., 2017. Nitrogen Availability Dampens the Positive Impacts of CO<sub>2</sub> Fertilization on Terrestrial Ecosystem Carbon and Water Cycles. *Geophysical Research Letters* n/a-n/a. <https://doi.org/10.1002/2017GL075981>

Hengl, T., de Jesus, J.M., Heuvelink, G.B.M., Gonzalez, M.R., Kilibarda, M., Blagotic, A., Shangguan, W., Wright, M.N., Geng, X., Bauer-Marschallinger, B., Guevara, M.A., Vargas, R., MacMillan, R.A., Batjes, N.H., Leenaars, J.G.B., Ribeiro, E., Wheeler, I., Mantel, S., Kempen, B., 2017. SoilGrids250m: Global gridded soil information based on machine learning. PLOS ONE 12. <https://doi.org/10.1371/journal.pone.0169748>

Higham, W., Shellberg, J., Brooks, A., Spencer, J., Rolfe, J., Trevithick, R., Turnour, J., Grogan, B., Hill, J., Erbacher, J., Czygan, A., Lyall, A., Murison, J., Tindall, D., Scobell, L., Cogle, L., Burns, R., Turner, R., Wallace, R., Wallace, M., Faulks, D., Wundersitz, V., 2017. Technical Report to the Springvale Station Erosion Management Plan (Technical Report), Springvale Erosion Management Plan (EMP) Project. Cape York Natural Resource Management Ltd., Atherton, Queensland, Cape York, Queensland.

Hinko-Najera, N., Isaac, P., Beringer, J., van Gorsel, E., Ewenz, C., McHugh, I., Exbrayat, J.F., Livesley, S.J., Arndt, S.K., 2017. Net ecosystem carbon exchange of a dry temperate eucalypt forest. Biogeosciences 14, 3781–3800. <https://doi.org/10.5194/bg-14-3781-2017>

Hoover, D.L., Duniway, M.C., Belnap, J., 2017. Testing the apparent resistance of three dominant plants to chronic drought on the Colorado Plateau. JOURNAL OF ECOLOGY 105, 152–162. <https://doi.org/10.1111/1365-2745.12647>

Huang, X., Lambert, S., Lau, C., Soares Magalhaes, R.J., Marquess, J., Rajmokan, M., Milinovich, G., Hu, W., 2017. Assessing the social and environmental determinants of pertussis epidemics in Queensland, Australia: A Bayesian spatio-temporal analysis. Epidemiology and Infection 145, 1221–1230. <https://doi.org/10.1017/S0950268816003289>

Hughes, P., McBratney, A.B., Huang, J., Minasny, B., Micheli, E., Hempel, J., 2017. Comparisons between USDA Soil Taxonomy and the Australian Soil Classification System I: Data harmonization, calculation of taxonomic distance and inter-taxa variation. Geoderma 307, 198–209. <https://doi.org/10.1016/j.geoderma.2017.08.009>

Imran, H.M., Kala, J., Ng, A.W.M., Muthukumaran, S., 2017. An evaluation of the performance of a WRF multi-physics ensemble for heatwave events over the city of Melbourne in southeast Australia. Climate Dynamics. <https://doi.org/10.1007/s00382-017-3758-y>

Isaac, P., Cleverly, J., McHugh, I., van Gorsel, E., Ewenz, C., Beringer, J., 2017. OzFlux data: network integration from collection to curation. Biogeosciences 14, 2903–2928. <https://doi.org/10.5194/bg-14-2903-2017>

Jarihani, B., Sidle, C.R., Bartley, R., Roth, H.C., Wilkinson, N.S., 2017. Characterisation of Hydrological Response to Rainfall at Multi Spatio-Temporal Scales in Savannas of Semi-Arid Australia. Water 9. <https://doi.org/10.3390/w9070540>

Jones, L.A., Kimball, J.S., Reichle, R.H., Madani, N., Glassy, J., Ardizzone, J., Colliander, A., Cleverly, J., Desai, A.R., Eamus, D., Euskirchen, E., Hutley, L., Macfarlane, C., Scott, R., 2017. The SMAP level 4 carbon product for monitoring ecosystem land-atmosphere CO<sub>2</sub> exchange. IEEE Transactions on Geoscience and Remote Sensing 55, 6517–6532. <https://doi.org/10.1109/TGRS.2017.2729343>

Jordan, R., Hoffmann, A., 2017. Creating resilient habitat for the future: Building Climate Future Plots.

Kamilaris, A., Colliander, A., Prenafeta Boldú, F.X., 2017. A Review on the Practice of Big Data Analysis in Agriculture. Computers and Electronics in Agriculture 143, 23–37. <https://doi.org/10.1016/j.compag.2017.09.037>

Karkauskaite, P., Tagesson, T., Fensholt, R., 2017. Evaluation of the Plant Phenology Index (PPI), NDVI and EVI for Start-of-Season Trend Analysis of the Northern Hemisphere Boreal Zone. Remote Sensing 9, 485. <https://doi.org/10.3390/rs9050485>

Keith, D.A., 2017. Australian Vegetation. Cambridge University Press.

Kim, E.-S., Trisurat, Y., Muraoka, H., Shibata, H., Amoroso, V., Boldgiv, B., Hoshizaki, K., Kassim, A.R., Kim, Y.-S., Nguyen, H.Q., Ohte, N., Ong, P.S., Wang, C.-P., 2017. The International Long-Term Ecological Research–East Asia–Pacific Regional Network (ILTER-EAP): history, development, and perspectives. Ecological Research. <https://doi.org/10.1007/s11284-017-1523-7>

Kingsford, R., 2017. Lake Eyre Basin Rivers: Environmental, Social and Economic Importance. CSIRO PUBLISHING.

Kirschbaum, M.U.F., Schipper, L.A., Mudge, P.L., Rutledge, S., Puche, N.J.B., Campbell, D.I., 2017. The trade-offs between milk production and soil organic carbon storage in dairy systems under different management and environmental factors. Science of the Total Environment 577, 61–72.

<https://doi.org/10.1016/j.scitotenv.2016.10.055>

Kundu, D., Vervoort, R.W., van Ogtrop, F.F., 2017. The value of remotely sensed surface soil moisture for model calibration using SWAT. Hydrological Processes 31, 2764–2780. <https://doi.org/10.1002/hyp.11219>

Lamb, D., 2017. Long-term ecological monitoring and institutional memories. Ecological Management & Restoration n/a-n/a. <https://doi.org/10.1111/emr.12271>

Lauvset, S.K., Tjiputra, J., Muri, H., 2017. Climate engineering and the ocean: effects on biogeochemistry and primary production. Biogeosciences 14, 5675–5691. <https://doi.org/10.5194/bg-14-5675-2017>

Law, Bradley, Caccamo, G., Roe, P., Truskinger, A., Brassil, T., Gonsalves, L., McConville, A., Stanton, M., 2017. Development and field validation of a regional, management-scale habitat model: A koala Phascolarctos cinereus case study. Ecology and Evolution n/a-n/a. <https://doi.org/10.1002/ece3.3300>

Law, Brad, Caccamo, G., Wimmer, J., Truskinger, A., McConville, A., Brassil, T., Stanton, M., Gonsalves, L., 2017. A predictive habitat model for Koalas Phascolarctos cinereus in north-east New South Wales: Assessment and field validation (Assessment and field validation), NSW Making it happen. NSW Department of Industry - Lands and Forestry, Parramatta.

Leigh, C., Laporte, B., Bonada, N., Fritz, K., Pella, H., Sauquet, E., Tockner, K., Datry, T., 2017. IRBAS: An online database to collate, analyze, and synthesize data on the biodiversity and ecology of intermittent rivers worldwide. ECOLOGY AND EVOLUTION 7, 815–823. <https://doi.org/10.1002/ece3.2679>

Lemetre, C., Maniko, J., Charlop-Powers, Z., Sparrow, B., Lowe, A.J., Brady, S.F., 2017. Bacterial natural product biosynthetic domain composition in soil correlates with changes in latitude on a continent-wide scale. Proc. Natl. Acad. Sci. U. S. A. 114, 11615–11620. <https://doi.org/10.1073/pnas.1710262114>

Leys, J., Chappell, A., Mewett, J., Barson, M., 2017. Wind Erosion Assessment for National Landcare Program (Report to the Department of Agriculture and Water Resources No. NA), National Landcare Program. The Office of Environment and Heritage, Sydney, NSW, Australia.

Li, F., Song, G., Liujun, Z., Yanan, Z., Di, L., 2017. Urban vegetation phenology analysis using high spatio-temporal NDVI time series. Urban Forestry & Urban Greening 25, 43–57. <https://doi.org/10.1016/j.ufug.2017.05.001>

Li, F.Q., Jupp, D.L.B., Paget, M., Briggs, P.R., Thankappan, M., Lewis, A., Held, A., 2017. Improving BRDF normalisation for Landsat data using statistical relationships between MODIS BRDF shape and vegetation structure in the Australian continent. Remote Sens. Environ. 195, 275–296. <https://doi.org/10.1016/j.rse.2017.03.032>

Li, L., Wang, Y.-P., Beringer, J., Shi, H., Cleverly, J., Cheng, L., Eamus, D., Huete, A., Hutley, L., Lu, X., Piao, S., Zhang, L., Zhang, Y., Yu, Q., 2017. Responses of LAI to rainfall explain contrasting sensitivities to carbon uptake

between forest and non-forest ecosystems in Australia. *Scientific Reports* 7, 11720. <https://doi.org/10.1038/s41598-017-11063-w>

Lievens, H., Martens, B., Verhoest, N.E.C., Hahn, S., Reichle, R.H., Miralles, D.G., 2017. Assimilation of global radar backscatter and radiometer brightness temperature observations to improve soil moisture and land evaporation estimates. *REMOTE SENSING OF ENVIRONMENT* 189, 194–210.

<https://doi.org/10.1016/j.rse.2016.11.022>

Lin, H., Chen, Y., Song, Q., Fu, P., Cleverly, J., Magliulo, V., Law, B.E., Gough, C.M., Hörtnagl, L., Di Gennaro, F., Matteucci, G., Montagnani, L., Duce, P., Shao, C., Kato, T., Bonal, D., Paul-Limoges, E., Beringer, J., Grace, J., Fan, Z., 2017. Quantifying deforestation and forest degradation with thermal response. *Science of The Total Environment* 607–608, 1286–1292. <https://doi.org/10.1016/j.scitotenv.2017.07.062>

Lin, H.-Y., Bush, A., Linke, S., Possingham, H.P., Brown, C.J., 2017. Climate change decouples marine and freshwater habitats of a threatened migratory fish. *Diversity and Distributions* 23, 751–760. <https://doi.org/10.1111/ddi.12570>

Lin, M.-Y., Hsieh, I.F., Lin, P.-H., Laplace, S., Ohashi, M., Chen, T.-H., Kume, T., 2017. Moso bamboo (*Phyllostachys pubescens*) forests as a significant carbon sink? A case study based on 4-year measurements in central Taiwan. *Ecological Research*. <https://doi.org/10.1007/s11284-017-1497-5>

Lindenmayer, D., 2017. Why is long-term ecological research and monitoring so hard to do? (And what can be done about it). *Australian Zoologist* 0, null. <https://doi.org/10.7882/AZ.2017.018>

Lindenmayer, D. B., Blanchard, W., Blair, D., McBurney, L., Banks, S.C., 2017. Relationships between tree size and occupancy by cavity-dependent arboreal marsupials. *Forest Ecology and Management* 391, 221–229. <https://doi.org/10.1016/j.foreco.2017.02.014>

Lindenmayer, David B., Wood, J., MacGregor, C., Hobbs, R.J., Catford, J.A., 2017. Non-target impacts of weed control on birds, mammals, and reptiles. *Ecosphere* 8, e01804–n/a. <https://doi.org/10.1002/ecs2.1804>

Liu, N., 2017. Changes in Water and Carbon in Australian Vegetation in Response to Climate Change (PhD Thesis). Murdoch University, Australia.

Liu, X.N., Zhang, B.S., Henry, B., Zhang, J.L., Grace, P., 2017. Assessing the impact of historical and future climate change on potential natural vegetation types and net primary productivity in Australian grazing lands. *Rangeland J.* 39, 387–400. <https://doi.org/10.1071/rj17081>

Lollback, G.W., Castley, J.G., Mossaz, A.C., Hero, J.M., 2017. Fine-scale changes in spatial habitat use by a low-density koala population in an isolated periurban forest remnant. *Aust. Mammal.* 40, 84–92. <https://doi.org/10.1071/am16036>

Lowe, A., Smyth, A., Sparrow, B., Wardle, G., 2017. Publish and don't perish - how to keep rare species' data away from poachers. *The Conversation*.

Lowe, A., Sparrow, B., 2017. Found: "lost" forests covering an area two-thirds the size of Australia. *The Conversation* NA, NA.

Lowe, A.J., Smyth, A.K., Atkins, K., Avery, R., Belbin, L., Brown, N., Budden, A.E., Gioia, P., Guru, S., Hardie, M., Hirsch, T., Hobern, D., La Salle, J., Loarie, S.R., Miles, M., Milne, D., Nicholls, M., Rossetto, M., Smits, J., Sparrow, B., Terrill, G., Turner, D., Wardle, G.M., 2017. Publish openly but responsibly. *Science* 357, 141–141. <https://doi.org/10.1126/science.ao0054>

Macfarlane, C., Grigg, A.H., Daws, M.I., 2017. A standardised Landsat time series (1973–2016) of forest leaf area index using pseudoinvariant features and spectral vegetation index isolines and a catchment hydrology application. *Remote Sensing Applications: Society and Environment* 6, 1–14.  
<https://doi.org/10.1016/j.rsase.2017.01.006>

Madani, Nima, Kimball, J.S., Jones, L.A., Parazoo, N.C., Guan, K., 2017. Global Analysis of Bioclimatic Controls on Ecosystem Productivity Using Satellite Observations of Solar-Induced Chlorophyll Fluorescence. *Remote Sensing* 9, 530. <https://doi.org/10.3390/rs9060530>

Madani, N., Kimball, J.S., Running, S.W., 2017. Improving global gross primary productivity estimates by computing optimum light use efficiencies using flux tower data. *J. Geophys. Res.-Biogeosci.* 122, 2939–2951.  
<https://doi.org/10.1002/2017jg004142>

Magney, T.S., Frankenberg, C., Fisher, J.B., Sun, Y., North, G.B., Davis, T.S., Kornfeld, A., Siebke, K., 2017. Connecting active to passive fluorescence with photosynthesis: a method for evaluating remote sensing measurements of Chl fluorescence. *New Phytologist* 215, 1594–1608. <https://doi.org/10.1111/nph.14662>

Mahoney, C., Hopkinson, C., Kljun, N., van Gorsel, E., 2017. Estimating canopy gap fraction using ICESat GLAS within Australian forest ecosystems. *Remote Sensing* 9. <https://doi.org/10.3390/rs9010059>

Malone, B.P., Styc, Q., Minasny, B., McBratney, A.B., 2017. Digital soil mapping of soil carbon at the farm scale: A spatial downscaling approach in consideration of measured and uncertain data. *GEODERMA* 290, 91–99.  
<https://doi.org/10.1016/j.geoderma.2016.12.008>

Marcolla, B., Rödenbeck, C., Cescatti, A., 2017. Patterns and controls of inter-annual variability in the terrestrial Carbon budget. *Biogeosciences Discuss.* NA, 21. <https://doi.org/10.5194/bg-2017-11>

Martín-Forés, I., Guerin, G.R., Lowe, A.J., 2017. Weed abundance is positively correlated with native plant diversity in grasslands of southern Australia. *PLoS One* 12, 13. <https://doi.org/10.1371/journal.pone.0178681>

Maruyama, T., Segawa, M., 2017a. Estimation of the Sensible and Latent Heat Fluxes by Reciprocal Analysis at an Arid and Semi-Arid Region. *Open Journal of Modern Hydrology* 7, 38–64.  
<https://doi.org/10.4236/ojmh.2017.71003>

Maruyama, T., Segawa, M., 2017b. Estimation Accuracy for Reciprocal Analysis of Sensible and Latent Heat Flux Focusing on Radiometric Temperature and Lag-Time. *Open Journal of Modern Hydrology* 7, 105–124.  
<https://doi.org/10.4236/ojmh.2017.72006>

Mason, T.J., Keith, D.A., Letten, A.D., 2017. Detecting state changes for ecosystem conservation with long-term monitoring of species composition. *ECOLOGICAL APPLICATIONS* 27, 458–468. <https://doi.org/10.1002/eap.1449>

Mastrotheodoros, T., Pappas, C., Molnar, P., Burlando, P., Keenan, T.F., Gentine, P., Gough, C.M., Fatichi, S., 2017. Linking plant functional trait plasticity and the large increase in forest water use efficiency. *Journal of Geophysical Research: Biogeosciences* 122, 2393–2408. <https://doi.org/10.1002/2017JG003890>

McCombs, A.G., 2017. Representing the relationships between field collected carbon exchanges and surface reflectance using geospatial and satellite-based techniques (PhD). University of South Carolina, USA.

McHugh, I.D., Beringer, J., Cunningham, S.C., Baker, P.J., Cavagnaro, T.R., Mac Nally, R., Thompson, R.M., 2017. Interactions between nocturnal turbulent flux, storage and advection at an “ideal” eucalypt woodland site. *Biogeosciences* 14, 3027–3050. <https://doi.org/10.5194/bg-14-3027-2017>

McKinney, M., Kark, S., 2017. Factors shaping avian alien species richness in Australia vs Europe. *Diversity and Distributions* 23, 1334–1342. <https://doi.org/10.1111/ddi.12625>

Medlyn, B.E., De Kauwe, M.G., Lin, Y.-S., Knauer, J., Duursma, R.A., Williams, C.A., Arneth, A., Clement, R., Isaac, P., Limousin, J.-M., Linderson, M.-L., Meir, P., Martin-StPaul, N., Wingate, L., 2017. How do leaf and ecosystem measures of water-use efficiency compare? *New Phytologist* 216, 758–770. <https://doi.org/10.1111/nph.14626>

Montzka, C., Bogena, H.R., Zreda, M., Monerris, A., Morrison, R., Muddu, S., Vereecken, H., 2017. Validation of Spaceborne and Modelled Surface Soil Moisture Products with Cosmic-Ray Neutron Probes. *REMOTE SENSING* 9. <https://doi.org/10.3390/rs9020103>

Moore, C.E., Beringer, J., Evans, B., Hutley, L.B., Tapper, N.J., 2017. Tree–grass phenology information improves light use efficiency modelling of gross primary productivity for an Australian tropical savanna. *Biogeosciences* 14, 111–129. <https://doi.org/10.5194/bg-14-111-2017>

Mrazova, J., Faggian, R., Johnson, M., Sposito, V., 2017. Land Capability Assessment of Glenelg Hopkins Catchment (Technical Report), Broadacre cropping. Centre for Regional and Rural Futures, Deakin University, Burwood, Victoria.

Muir, J., Goodwin, N., Armston, J., Phinn, S., Scarth, P., 2017. An Accuracy Assessment of Derived Digital Elevation Models from Terrestrial Laser Scanning in a Sub-Tropical Forested Environment. *REMOTE SENSING* 9. <https://doi.org/10.3390/rs9080843>

Nguyen, H.A., Bland, L., Roberts, T., Guru, S., Dinh, M., Abramson, D., 2017. A computational pipeline for the IUCN risk assessment for meso-American reef ecosystem, in: Proceedings - 13th IEEE International Conference on eScience, eScience 2017. Institute of Electrical and Electronics Engineers Inc., pp. 286–294. <https://doi.org/10.1109/eScience.2017.42>

Nolan, R.H., Fairweather, K.A., Tarin, T., Santini, N.S., Cleverly, J., Faux, R., Eamus, D., 2017a. Divergence in plant water-use strategies in semiarid woody species. *Functional Plant Biology* 44, 1134–1146. <https://doi.org/10.1071/FP17079>

Nolan, R.H., Tarin, T., Fairweather, K.A., Cleverly, J., Eamus, D., 2017b. Variation in photosynthetic traits related to access to water in semiarid Australian woody species. *Functional Plant Biology* 44, 1087–1097. <https://doi.org/10.1071/FP17096>

Nolan, R.H., Tarin, T., Santini, N.S., McAdam, S.A.M., Ruman, R., Eamus, D., 2017c. Differences in osmotic adjustment, foliar abscisic acid dynamics, and stomatal regulation between an isohydric and anisohydric woody angiosperm during drought. *Plant, Cell & Environment* 40, 3122–3134. <https://doi.org/10.1111/pce.13077>

O'Brien, K.R., Waycott, M., Maxwell, P., Kendrick, G.A., Udy, J.W., Ferguson, A.J.P., Kilminster, K., Scanes, P., McKenzie, L.J., McMahon, K., Adams, M.P., Samper-Villarreal, J., Collier, C., Lyons, M., Mumby, P.J., Radke, L., Christianen, M.J.A., Dennison, W.C., 2017. Seagrass ecosystem trajectory depends on the relative timescales of resistance, recovery and disturbance. *Marine Pollution Bulletin*. <https://doi.org/10.1016/j.marpolbul.2017.09.006>

O'Neill, S., Sparrow, B., Thurgate, N., Lowe, A.J., 2017. AusPlots Rangelands Vertebrate Fauna Survey Protocols Manual (Manual No. Version 0.3), Enhancing Long-term Surveillance Monitoring Across Australia. TERN, The University of Adelaide, National Environmental Research Program, Department of the Environment, Adelaide, South Australia.

Origo, N., Calders, K., Nightingale, J., Disney, M., 2017. Influence of levelling technique on the retrieval of canopy structural parameters from digital hemispherical photography. *Agricultural and Forest Meteorology* 237–238, 143–149. <https://doi.org/10.1016/j.agrformet.2017.02.004>

Pacheco-Labrador, J., El-Madany, S.T., Martín, P.M., Migliavacca, M., Rossini, M., Carrara, A., Zarco-Tejada, P.J., 2017. Spatio-Temporal Relationships between Optical Information and Carbon Fluxes in a Mediterranean Tree-Grass Ecosystem. *Remote Sensing* 9. <https://doi.org/10.3390/rs9060608>

Pavey, C.R., Addison, J., Brandle, R., Dickman, C.R., McDonald, P.J., Moseby, K.E., Young, L.I., 2017. The role of refuges in the persistence of Australian dryland mammals. *BIOLOGICAL REVIEWS* 92, 647–664.  
<https://doi.org/10.1111/brv.12247>

Peng, D., Zhang, Xiaoyang, Zhang, B., Liu, L., Liu, X., Huete, A.R., Huang, W., Wang, S., Luo, S., Zhang, Xiao, Zhang, H., 2017. Scaling effects on spring phenology detections from MODIS data at multiple spatial resolutions over the contiguous United States. *ISPRS Journal of Photogrammetry and Remote Sensing* 132, 185–198.  
<https://doi.org/10.1016/j.isprsjprs.2017.09.002>

Prentice, I.C., Cleator, S.F., Huang, Y.H., Harrison, S.P., Roulstone, I., 2017. Reconstructing ice-age palaeoclimates: Quantifying low-CO<sub>2</sub> effects on plants. *GLOBAL AND PLANETARY CHANGE* 149, 166–176.  
<https://doi.org/10.1016/j.gloplacha.2016.12.012>

Pulsford, S.A., Lindenmayer, D.B., Driscoll, D.A., 2017. Reptiles and frogs conform to multiple conceptual landscape models in an agricultural landscape. *Diversity and Distributions Early view*, n/a-n/a.  
<https://doi.org/10.1111/ddi.12628>

Raiter, K.G., Prober, S.M., Hobbs, R.J., Possingham, H.P., 2017. Lines in the sand: quantifying the cumulative development footprint in the world's largest remaining temperate woodland. *Landsc. Ecol.* 32, 1969–1986.  
<https://doi.org/10.1007/s10980-017-0558-z>

Raynor, E.J., Whalen, C.E., Brown, M.B., Powell, L.A., 2017. Grassland bird community and acoustic complexity appear unaffected by proximity to a wind energy facility in the Nebraska Sandhills. *The Condor* 119, 484–496.  
<https://doi.org/10.1650/CONDOR-16-164.1>

Reardon-Smith, K., Kath, J., Le Brocq, A., Apan, A., 2017. Drought resistance and recovery: the role of C3 and C4 species in grassland ecosystems.

Reichle, R.H., De Lannoy, G.J.M., Liu, Q., Ardizzone, J.V., Colliander, A., Conaty, A., Crow, W., Jackson, T.J., Jones, L.A., Kimball, J.S., Koster, R.D., Mahanama, S.P., Smith, E.B., Berg, A., Bircher, S., Bosch, D., Caldwell, T.G., Cosh, M., Gonzalez-Zamora, A., Collins, C.D.H., Jensen, K.H., Livingston, S., Lopez-Baeza, E., Martinez-Fernandez, J., McNairn, H., Moghaddam, M., Pacheco, A., Pellarin, T., Prueger, J., Rowlandson, T., Seyfried, M., Starks, P., Su, Z.B., Thibeault, M., van der Velde, R., Walker, J., Wu, X.L., Zeng, Y.J., 2017. Assessment of the SMAP Level-4 surface and root-zone soil moisture product using in situ measurements. *J. Hydrometeorol.* 18, 2621–2645.  
<https://doi.org/10.1175/jhm-d-17-0063.1>

Robinson, N.P., 2017. Enhancing Conservation with High Resolution Productivity Datasets for the Conterminous United States (Ph.D.). University of Montana, Ann Arbor.

Rogers, C.D.W., Beringer, J., 2017. Describing rainfall in northern Australia using multiple climate indices. *Biogeosciences* 14, 597–615. <https://doi.org/10.5194/bg-14-597-2017>

Rumman, R., Atkin, O.K., Bloomfield, K.J., Eamus, D., 2017a. Variation in bulk-leaf <sup>13</sup>C discrimination, leaf traits and water-use efficiency–trait relationships along a continental-scale climate gradient in Australia. *Global Change Biology* 24, 1186–1200. <https://doi.org/10.1111/gcb.13911>

Rumman, R., Cleverly, J., Nolan, R.H., Tarin, T., Eamus, D., 2017b. Speculations on the application of foliar <sup>13</sup>C discrimination to reveal groundwater dependency of vegetation, provide estimates of root depth and rates of groundwater use. *Hydrology and Earth System Sciences Discussions NA*, 27. <https://doi.org/10.5194/hess-2017-540>

Runge, C., Tulloch, A.I.T., 2017. Solving problems of conservation inadequacy for nomadic birds. *Australian Zoologist* 39, 280–295. <https://doi.org/10.7882/AZ.2016.003>

Russell-Smith, J., Evans, J., Edwards, A.C., Simms, A., 2017. Assessing ecological performance thresholds in fire-prone Kakadu National Park, northern Australia. *Ecosphere* 8, e01856–n/a. <https://doi.org/10.1002/ecs2.1856>

Salimon, C., Anderson, L., 2017. How strong is the relationship between rainfall variability and Caatinga productivity? A case study under a changing climate. *Anais da Academia Brasileira de Ciências* 0–0. <https://doi.org/10.1590/0001-3765201720170143>

Sanchez-Azofeifa, A., Antonio Guzmán, J., Campos, C.A., Castro, S., Garcia-Millan, V., Nightingale, J., Rankine, C., 2017. Twenty-first century remote sensing technologies are revolutionizing the study of tropical forests. *Biotropica* n/a-n/a. <https://doi.org/10.1111/btp.12454>

Santín, C., Otero, X.L., Doerr, S.H., Chafer, C.J., 2017. Impact of a moderate/high-severity prescribed eucalypt forest fire on soil phosphorous stocks and partitioning. *Science of The Total Environment*. <https://doi.org/10.1016/j.scitotenv.2017.10.116>

Shi, H., 2017. A Joint Analysis of Gross Primary Production and Evapotranspiration of Australia Using Eddy Covariance, Remote Sensing and Land Surface Modelling Approaches (Doctor of Philosophy). University of Technology, Sydney, Sydney, NSW, Australia.

Shi, H., Li, L., Eamus, D., Huete, A., Cleverly, J., Tian, X., Yu, Q., Wang, S., Montagnani, L., Magliulo, V., Rotenberg, E., Pavelka, M., Carrara, A., 2017. Assessing the ability of MODIS EVI to estimate terrestrial ecosystem gross primary production of multiple land cover types. *Ecological Indicators* 72, 153–164. <https://doi.org/10.1016/j.ecolind.2016.08.022>

Simmonds, J.S., van Rensburg, B.J., Maron, M., 2017. Non-random patterns of vegetation clearing and potential biases in studies of habitat area effects. *Landscape Ecology* 32, 729–743. <https://doi.org/10.1007/s10980-016-0482-7>

Sparrow, B., 2017. Monitoring in the Australian Rangelands: Where we've come from and where we should be headed. Presented at the AUSTRALIAN RANGELAND SOCIETY 19th BIENNIAL CONFERENCE, Australian Rangeland Society, p. 7.

Steane, D.A., McLean, E.H., Potts, B.M., Prober, S.M., Stock, W.D., Stylianou, V.M., Vaillancourt, R.E., Byrne, M., 2017a. Evidence for adaptation and acclimation in a widespread eucalypt of semi-arid Australia. *Biol. J. Linnean Soc.* 121, 484–500. <https://doi.org/10.1093/biolinнейан/blw051>

Steane, D.A., Potts, B.M., McLean, E.H., Collins, L., Holland, B.R., Prober, S.M., Stock, W.D., Vaillancourt, R.E., Byrne, M., 2017b. Genomic scans across three eucalypts suggest that adaptation to aridity is a genome-wide phenomenon. *Genome Biol. Evol.* 9, 253–265. <https://doi.org/10.1093/gbe/evw290>

Strayer, D.L., D'Antonio, C.M., Essl, F., Fowler, M.S., Geist, J., Hilt, S., Jarić, I., Jöhnk, K., Jones, C.G., Lambin, X., Latzka, A.W., Pergl, J., Pyšek, P., Robertson, P., von Schmalensee, M., Stefansson, R.A., Wright, J., Jeschke, J.M., 2017. Boom-bust dynamics in biological invasions: towards an improved application of the concept. *Ecology Letters* 20, 1337–1350. <https://doi.org/10.1111/ele.12822>

Sun, Q., Meyer, W.S., Koerber, G.R., Marschner, P., 2017. Prior rainfall pattern determines response of net ecosystem carbon exchange to a large rainfall event in a semi-arid woodland. *Agriculture, Ecosystems & Environment* 247, 112–119. <https://doi.org/10.1016/j.agee.2017.06.032>

Sun, Q.Q., Meyer, W.S., Koerber, G.R., Marschner, P., 2017. Response of microbial activity to labile C addition in sandy soil from semi-arid woodland is influenced by vegetation patch and wildfire. *J. Soil Sci. Plant Nutr.* 17, 62–73.

Tehrany, M.S., Kumar, L., Drielsma, M.J., 2017. Review of native vegetation condition assessment concepts, methods and future trends. *Journal for Nature Conservation* 40, 12–23.  
<https://doi.org/10.1016/j.jnc.2017.08.004>

Thi Tu, T., Hai, N.D., 2017. Assessment of effectiveness to reduce greenhouse gas emission of biogas digesters in livestock manure treatment at Van Cu Rice Noodle Craft Village, Thua Thien Hue Province. *Vietnam Journal of Science and Technology* 55, 332.

Thurgate, N., Lowe, A.J., Clancy, T.F., 2017. Australia's Terrestrial Ecosystem Research Network: A network of networks approach to building and maintaining continental ecosystem research infrastructures, in: Chabbi, A., Loescher, H.W. (Eds.), *Terrestrial Ecosystem Research Infrastructures*. Taylor & Francis, Boca Raton FL USA, pp. 427–448. <https://doi.org/10.1201/9781315368252>

Tian, S.Y., Tregoning, P., Renzullo, L.J., van Dijk, A., Walker, J.P., Pauwels, V.R.N., Allgeyer, S., 2017. Improved water balance component estimates through joint assimilation of GRACE water storage and SMOS soil moisture retrievals. *Water Resour. Res.* 53, 1820–1840. <https://doi.org/10.1002/2016wr019641>

Toshichika, I., Hiroki, T., Yukiko, H., Naota, H., Motoki, N., 2017. Contributions of different bias-correction methods and reference meteorological forcing data sets to uncertainty in projected temperature and precipitation extremes. *Journal of Geophysical Research: Atmospheres* 122, 7800–7819.  
<https://doi.org/10.1002/2017JD026613>

Uebbing, B., Forootan, E., Braakmann-Folgmann, A., Kusche, J., 2017. Inverting surface soil moisture information from satellite altimetry over arid and semi-arid regions. *Remote Sensing of Environment* 196, 205–223.  
<https://doi.org/10.1016/j.rse.2017.05.004>

Ukkola, A.M., Haughton, N., De Kauwe, M.G., Abramowitz, G., Pitman, A.J., 2017. FluxnetLSM R package (v1.0): A community tool for processing FLUXNET data for use in land surface modelling. *Geoscientific Model Development Discussions* 1–21. <https://doi.org/10.5194/gmd-2017-58>

van Delden, L., 2017. Implications of urbanization related land use change on the carbon and nitrogen cycle from subtropical soils (Doctor of Philosophy). Queensland University of Technology, Brisbane, Australia.

Verma, M., Schimel, D., Evans, B., Frankenberg, C., Beringer, J., Drewry, D.T., Magney, T., Marang, I., Hutley, L., Moore, C., Eldering, A., 2017. Effect of environmental conditions on the relationship between solar-induced fluorescence and gross primary productivity at an OzFlux grassland site. *Journal of Geophysical Research: Biogeosciences* 122, 716–733. <https://doi.org/10.1002/2016JG003580>

Villasenor, N.R., Driscoll, D.A., Gibbons, P., Calhoun, A.J.K., Lindenmayer, D.B., 2017. The relative importance of aquatic and terrestrial variables for frogs in an urbanizing landscape: Key insights for sustainable urban development. *LANDSCAPE AND URBAN PLANNING* 157, 26–35.  
<https://doi.org/10.1016/j.landurbplan.2016.06.006>

Villaseñor, N.R., Tulloch, A.I.T., Driscoll, D.A., Gibbons, P., Lindenmayer, D.B., 2017. Compact development minimizes the impacts of urban growth on native mammals. *Journal of Applied Ecology* 54, 794–804.  
<https://doi.org/10.1111/1365-2664.12800>

Waide, R.B., Brunt, J.W., Servilla, M.S., 2017. Demystifying the Landscape of Ecological Data Repositories in the United States. *BioScience* 67, 1044–1051. <https://doi.org/10.1093/biosci/bix117>

Walker, I., Schandl, H., 2017. Social Science and Sustainability. CSIRO PUBLISHING.

Wang, C., Li, J., Liu, Q., Zhong, B., Wu, S., Xia, C., 2017. Analysis of Differences in Phenology Extracted from the Enhanced Vegetation Index and the Leaf Area Index. *Sensors* 17. <https://doi.org/10.3390/s17091982>

Wang, H., Harrison, S.P., Prentice, I.C., Yang, Y., Bai, F., Togashi, H.F., Wang, M., Zhou, S., Ni, J., 2017. The China Plant Trait Database: Toward a comprehensive regional compilation of functional traits for land plants. *Ecology*. <https://doi.org/10.1002/ecy.2091>

Webb, J.R., 2017. Terrestrial versus aquatic carbon fluxes in an agricultural coastal floodplain (PhD). Southern Cross University, Lismore, NSW, Australia.

Webb, J.R., Quirk, R.G., Santos, I.R., Maher, D.T., Macdonald, B.C.T., Robson, B., Isaac, P., McHugh, I., 2017. Whole system carbon cycling during the growing season of a sugarcane crop in the tweed valley, in: 39th Conference of the Australian Society of Sugar Cane Technologists, ASSCT 2017. Australian Society of Sugar Cane Technologists, pp. 227–228.

Webb, J. R., Santos, I.R., Robson, B., Macdonald, B., Jeffrey, L., Maher, D.T., 2017. Constraining the annual groundwater contribution to the water balance of an agricultural floodplain using radon: The importance of floods. *Water Resour. Res.* 53, 544–562. <https://doi.org/10.1002/2016wr019735>

Webster, E., Ramp, D., Kingsford, R.T., 2017. Incorporating an iterative energy restraint for the Surface Energy Balance System (SEBS). *Remote Sensing of Environment* 198, 267–285.  
<https://doi.org/10.1016/j.rse.2017.06.012>

Wegscheidl, C.J., Sheaves, M., McLeod, I.M., Hedge, P.T., Gillies, C.L., Creighton, C., 2017. Sustainable management of Australia's coastal seascapes: a case for collecting and communicating quantitative evidence to inform decision-making. *WETLANDS ECOLOGY AND MANAGEMENT* 25, 3–22. <https://doi.org/10.1007/s11273-016-9515-x>

Wei, S., Yi, C., Fang, W., Hendrey, G., 2017. A global study of GPP focusing on light-use efficiency in a random forest regression model. *Ecosphere* 8, e01724–n/a. <https://doi.org/10.1002/ecs2.1724>

Whitley, R., Beringer, J., Hutley, L.B., Abramowitz, G., De Kauwe, M.G., Evans, B., Haverd, V., Li, L., Moore, C., Ryu, Y., Scheiter, S., Schymanski, S.J., Smith, B., Wang, Y.P., Williams, M., Yu, Q., 2017. Challenges and opportunities in land surface modelling of savanna ecosystems. *Biogeosciences* 14, 4711–4732.  
<https://doi.org/10.5194/bg-14-4711-2017>

Wilkes, P., Lau, A., Disney, M., Calders, K., Burt, A., Tanago, J.G. de, Bartholomeus, H., Brede, B., Herold, M., 2017. Data acquisition considerations for Terrestrial Laser Scanning of forest plots. *Remote Sensing of Environment* 196, 140–153. <https://doi.org/10.1016/j.rse.2017.04.030>

Woodgate, W., Armston, J.D., Disney, M., Suarez, L., Jones, S.D., Hill, M.J., Wilkes, P., Soto-Berelov, M., 2017. Validating canopy clumping retrieval methods using hemispherical photography in a simulated Eucalypt forest. *Agric. For. Meterol.* 247, 181–193. <https://doi.org/10.1016/j.agrformet.2017.07.027>

Yang, X., Gray, J., Chapman, G., Zhu, Q., Tulau, M., McInnes-Clarke, S., 2017. Digital mapping of soil erodibility for water erosion in New South Wales, Australia. *Soil Res.* <https://doi.org/10.1071/SR17058>

Yao, Y., Liang, S., Li, X., Chen, J., Liu, S., Jia, K., Zhang, X., Xiao, Z., Fisher, J.B., Mu, Q., Pan, M., Liu, M., Cheng, J., Jiang, B., Xie, X., Grünwald, T., Bernhofer, C., Roupsard, O., 2017. Improving global terrestrial evapotranspiration estimation using support vector machine by integrating three process-based algorithms. *Agricultural and Forest Meteorology* 242, 55–74. <https://doi.org/10.1016/j.agrformet.2017.04.011>

Yao, Y.J., Liang, S.L., Li, X.L., Zhang, Y.H., Chen, J.Q., Jia, K., Zhang, X.T., Fisher, J.B., Wang, X.Y., Zhang, L.L., Xu, J., Shao, C.L., Posse, G., Li, Y.N., Magliulo, V., Varlagin, A., Moors, E.J., Boike, J., Macfarlane, C., Kato, T., Buchmann, N., Billesbach, D.P., Beringer, J., Wolf, S., Papuga, S.A., Wohlfahrt, G., Montagnani, L., Ardo, J., Paul-Limoges, E., Emmel, C., Hortnagl, L., Sachs, T., Gruening, C., Gioli, B., Lopez-Ballesteros, A., Steinbrecher, R., Gielen, B., 2017. Estimation of high-resolution terrestrial evapotranspiration from Landsat data using a simple Taylor skill fusion method. *J. Hydrol.* 553, 508–526. <https://doi.org/10.1016/j.jhydrol.2017.08.013>

Yeganeh, B., Hewson, M.G., Clifford, S., Knibbs, L.D., Morawska, L., 2017. A satellite-based model for estimating PM<sub>2.5</sub> concentration in a sparsely populated environment using soft computing techniques. ENVIRONMENTAL MODELLING & SOFTWARE 88, 84–92. <https://doi.org/10.1016/j.envsoft.2016.11.017>

You, H., Wang, T., Skidmore, A.K., Xing, Y., 2017. Quantifying the Effects of Normalisation of Airborne LiDAR Intensity on Coniferous Forest Leaf Area Index Estimations. REMOTE SENSING 9. <https://doi.org/10.3390/rs9020163>

Zhang, L., Cheng, L., Brutsaert, W., 2017. Estimation of land surface evaporation using a generalized nonlinear complementary relationship. J. Geophys. Res.-Atmos. 122, 1475–1487. <https://doi.org/10.1002/2016jd025936>

Zhang, L., Weng, Q., Shao, Z., 2017. An evaluation of monthly impervious surface dynamics by fusing Landsat and MODIS time series in the Pearl River Delta, China, from 2000 to 2015. Remote Sensing of Environment 201, 99–114. <https://doi.org/10.1016/j.rse.2017.08.036>

Zhang, X.X., Dai, Y.J., Cui, H.Z., Dickinson, R.E., Zhu, S.G., Wei, N., Yan, B.Y., Yuan, H., Wei, S.G., Wang, L.L., Fu, W.T., 2017. Evaluating common land model energy fluxes using FLUXNET data. Adv. Atmos. Sci. 34, 1035–1046. <https://doi.org/10.1007/s00376-017-6251-y>

Zhang, Y., Tao, H., Liang, S., Wang, D., 2017. Estimation of all-sky instantaneous photosynthetically active radiation from visible infrared imaging radiometer suite data using optimization method. Presented at the 2017 6th International Conference on Agro-Geoinformatics, Fairfax, VA, USA, pp. 1–5. <https://doi.org/10.1109/Agro-Geoinformatics.2017.8047017>

Zhang, Y.Q., Chiew, F.H.S., Pena-Arancibia, J., Sun, F.B., Li, H.X., Leuning, R., 2017. Global variation of transpiration and soil evaporation and the role of their major climate drivers. J. Geophys. Res.-Atmos. 122, 6868–6881. <https://doi.org/10.1002/2017jd027025>

Zhang, Z., Zhang, R., Zhou, Y., Cescatti, A., Wohlfahrt, G., Sun, M., Zhu, J., Magliulo, V., Tao, F., Chen, G., 2017. A temperature threshold to identify the driving climate forces of the respiratory process in terrestrial ecosystems. Biogeosciences Discussions NA, NA. <https://doi.org/10.5194/bg-2017-345>

Zheng, B., Dang, T., Marschner, P., 2017. Prior exposure to diurnal heating influences soil respiration and N availability upon rewetting. Biol. Fertil. Soils 53, 715–721. <https://doi.org/10.1007/s00374-017-1220-2>

Zheng, Y., Zhao, W., Zhang, G., 2017. Spatial Analysis of a Haloxylon Ammodendron Plantation in an Oasis-Desert Ecotone in the Hexi Corridor, Northwestern China. Forests 8. <https://doi.org/10.3390/f8060200>

## 2016

---

Adams-Hosking, C., McBride, M.F., Baxter, G., Burgman, M., de Villiers, D., Kavanagh, R., Lawler, I., Lunney, D., Melzer, A., Menkhorst, P., Molsher, R., Moore, B.D., Phalen, D., Rhodes, J.R., Todd, C., Whisson, D., McAlpine, C.A., 2016. Use of expert knowledge to elicit population trends for the koala (*Phascolarctos cinereus*). *DIVERSITY AND DISTRIBUTIONS* 22, 249–262. <https://doi.org/10.1111/ddi.12400>

Ajami, H., Khan, U., Tuteja, N.K., Sharma, A., 2016. Development of a computationally efficient semi-distributed hydrologic modeling application for soil moisture, lateral flow and runoff simulation. *ENVIRONMENTAL MODELLING & SOFTWARE* 85, 319–331. <https://doi.org/10.1016/j.envsoft.2016.09.002>

Almeida, J., dos Santos, J.A., Alberton, B., Morellato, L.P.C., Torres, R. da S., 2016. Phenological visual rhythms: Compact representations for fine-grained plant species identification. *PATTERN RECOGNITION LETTERS* 81, 90–100. <https://doi.org/10.1016/j.patrec.2015.11.028>

Arundel, J., Winter, S., Gui, G., Keatley, M., 2016. A web-based application for beekeepers to visualise patterns of growth in floral resources using MODIS data. *ENVIRONMENTAL MODELLING & SOFTWARE* 83, 116–125. <https://doi.org/10.1016/j.envsoft.2016.05.010>

Ashton, L.A., Nakamura, A., Basset, Y., Burwell, C.J., Cao, M., Eastwood, R., Odell, E., de Oliveira, E.G., Hurley, K., Katabuchi, M., Maunsell, S., McBroom, J., Schmidl, J., Sun, Z.H., Tang, Y., Whitaker, T., Laidlaw, M.J., McDonald, W.J.F., Kitching, R.L., 2016. Vertical stratification of moths across elevation and latitude. *J. Biogeogr.* 43, 59–69. <https://doi.org/10.1111/jbi.12616>

Aulenbach, B.T., Burns, D.A., Shanley, J.B., Yanai, R.D., Bae, K., Wild, A.D., Yang, Y., Yi, D., 2016. Approaches to stream solute load estimation for solutes with varying dynamics from five diverse small watersheds. *ECOSPHERE* 7. <https://doi.org/10.1002/ecs2.1298>

Azmi, M., Rüdiger, C., Walker, J.P., 2016. A data fusion-based drought index. *Water Resour. Res.* 52, 2222–2239. <https://doi.org/10.1002/2015WR017834>

Babcock, C., Finley, A.O., Cook, B.D., Weiskittel, A., Woodall, C.W., 2016. Modeling forest biomass and growth: Coupling long-term inventory and LiDAR data. *REMOTE SENSING OF ENVIRONMENT* 182, 1–12. <https://doi.org/10.1016/j.rse.2016.04.014>

Balzarolo, M., Vicca, S., Nguy-Robertson, A.L., Bonal, D., Elbers, J.A., Fu, Y.H., Grunwald, T., Horemans, J.A., Papale, D., Penuelas, J., Suyker, A., Veroustraete, F., 2016. Matching the phenology of Net Ecosystem Exchange and vegetation indices estimated with MODIS and FLUXNET in-situ observations. *Remote Sens. Environ.* 174, 290–300. <https://doi.org/10.1016/j.rse.2015.12.017>

Beringer, J., Hutley, L.B., McHugh, I., Arndt, S.K., Campbell, D., Cleugh, H.A., Cleverly, J., Resco de Dios, V., Eamus, D., Evans, B., Ewenz, C., Grace, P., Griebel, A., Haverd, V., Hinko-Najera, N., Huete, A., Isaac, P., Kanniah, K., Leuning, R., Liddell, M.J., Macfarlane, C., Meyer, W., Moore, C., Pendall, E., Phillips, A., Phillips, R.L., Prober, S.M., Restrepo-Coupe, N., Rutledge, S., Schroder, I., Silberstein, R., Southall, P., Yee, M.S., Tapper, N.J., van Gorsel, E., Vote, C., Walker, J., Wardlaw, T., 2016. An introduction to the Australian and New Zealand flux tower network – OzFlux. *Biogeosciences* 13, 5895–5916. <https://doi.org/10.5194/bg-13-5895-2016>

Bissett, A., Fitzgerald, A., Meintjes, T., Mele, P.M., Reith, F., Dennis, P.G., Breed, M.F., Brown, B., Brown, M.V., Brugger, J., Byrne, M., Caddy-Retalic, S., Carmody, B., Coates, D.J., Correa, C., Ferrari, B.C., Gupta, V., Hamonts, K., Haslem, A., Hugenholz, P., Karan, M., Koval, J., Lowe, A.J., Macdonald, S., McGrath, L., Martin, D., Morgan, M., North, K.I., Paungfoo-Lohhine, C., Pendall, E., Phillips, L., Pirzl, R., Powell, J.R., Ragan, M.A., Schmidt, S., Seymour, N., Snape, I., Stephen, J.R., Stevens, M., Tinning, M., Williams, K., Yeoh, Y.K., Zammit, C.M., Young, A., 2016. Introducing BASE: the Biomes of Australian Soil Environments soil microbial diversity database. *GigaScience* 5, 11. <https://doi.org/10.1186/s13742-016-0126-5>

Blair, D.P., McBurney, L.M., Blanchard, W., Banks, S.C., Lindenmayer, D.B., 2016. Disturbance gradient shows logging affects plant functional groups more than fire. *ECOLOGICAL APPLICATIONS* 26, 2280–2301.  
<https://doi.org/10.1002/eap.1369>

Boer, M.M., Bowman, D.M.J.S., Murphy, B.P., Cary, G.J., Cochrane, M.A., Fensham, R.J., Krawchuk, M.A., Price, O.F., de Dios, V.R., Williams, R.J., Bradstock, R.A., 2016. Future changes in climatic water balance determine potential for transformational shifts in Australian fire regimes. *Environmental Research Letters* 11, 065002.

Boke-Olen, N., Lehsten, V., Ardo, J., Beringer, J., Eklundh, L., Holst, T., Veenendaal, E., Tagesson, T., 2016. Estimating and Analyzing Savannah Phenology with a Lagged Time Series Model. *PLoS One* 11, 15.  
<https://doi.org/10.1371/journal.pone.0154615>

Bristow, M., Hutley, L.B., Beringer, J., Livesley, S.J., Edwards, A.C., Arndt, S.K., 2016. Quantifying the relative importance of greenhouse gas emissions from current and future savanna land use change across northern Australia. *Biogeosciences* 13, 6285–6303. <https://doi.org/10.5194/bg-13-6285-2016>

Brown, T.B., Hultine, K.R., Steltzer, H., Denny, E.G., Denslow, M.W., Granados, J., Henderson, S., Moore, D., Nagai, S., SanClements, M., Sánchez-Azofeifa, A., Sonnentag, O., Tazik, D., Richardson, A.D., 2016. Using phenocams to monitor our changing Earth: toward a global phenocam network. *Frontiers in Ecology and the Environment* 14, 84–93. <https://doi.org/10.1002/fee.1222>

Bui, E.N., 2016. Data-driven Critical Zone science: A new paradigm. *Science of The Total Environment* 568, 587–593. <https://doi.org/10.1016/j.scitotenv.2016.01.202>

Buitenhof, R., Higgins, S.I., 2016. Convergence among global biogeographical realms in the physiological niche of evergreen and deciduous vegetation. *Glob. Ecol. Biogeogr.* 25, 704–715. <https://doi.org/10.1111/geb.12447>

Bush, A., Mokany, K., Catullo, R., Hoffmann, A., Kellermann, V., Sgro, C., McEvey, S., Ferrier, S., 2016. Incorporating evolutionary adaptation in species distribution modelling reduces projected vulnerability to climate change. *ECOLOGY LETTERS* 19, 1468–1478. <https://doi.org/10.1111/ele.12696>

Campbell, J.L., Donato, D.C., Fontaine, J.B., 2016. Effects of post-fire logging on fuel dynamics in a mixed-conifer forest, Oregon, USA: a 10-year assessment. *INTERNATIONAL JOURNAL OF WILDLAND FIRE* 25, 646–656.  
<https://doi.org/10.1071/WF15119>

Campioli, M., Malhi, Y., Vicca, S., Luyssaert, S., Papale, D., Peñuelas, J., Reichstein, M., Migliavacca, M., Arain, M.A., Janssens, I.A., 2016. Evaluating the convergence between eddy-covariance and biometric methods for assessing carbon budgets of forests. *Nature Communications* 7, 13717. <https://doi.org/10.1038/ncomms13717>

Chen, C., Cleverly, J., Zhang, L., Yu, Q., Eamus, D., 2016. Modelling seasonal and inter-annual variations in carbon and water fluxes in an arid-zone Acacia savanna woodland, 1981–2012. *Ecosystems* 19, 625–644.  
<https://doi.org/10.1007/s10021-015-9956-8>

Chen, Y., Ryder, J., Bastrikov, V., McGrath, M.J., Naudts, K., Otto, J., Ottle, C., Peylin, P., Polcher, J., Valade, A., Black, A., Elbers, J.A., Moors, E., Foken, T., van Gorsel, E., Haverd, V., Heinesch, B., Tiedemann, F., Knohl, A., Launiainen, S., Loustau, D., Ogee, J., Vessala, T., Luyssaert, S., 2016. Evaluating the performance of land surface model ORCHIDEE-CAN v1.0 on water and energy flux estimation with a single- and multi-layer energy budget scheme. *GEOSCIENTIFIC MODEL DEVELOPMENT* 9, 2951–2972. <https://doi.org/10.5194/gmd-9-2951-2016>

Christmas, M. J., Biffin, E., Breed, M.F., Lowe, A.J., 2016. Finding needles in a genomic haystack: targeted capture identifies clear signatures of selection in a nonmodel plant species. *Mol. Ecol.* 25, 4216–4233.  
<https://doi.org/10.1111/mec.13750>

Christmas, Matthew J., Breed, M.F., Lowe, A.J., 2016. Constraints to and conservation implications for climate change adaptation in plants. *Conservation Genetics* 17, 305–320. <https://doi.org/10.1007/s10592-015-0782-5>

Cleverly, J., 2016. Postcards from the Field. *EOS. Transactions of the American Geophysical Union* 97, C3.

Cleverly, J., Eamus, D., 2016. Droughts and flooding rains: it takes three oceans to explain Australia's wild 21st-century weather. *The Conversation*.

Cleverly, J., Eamus, D., Luo, Q., Restrepo Coupe, N., Kljun, N., Ma, X., Ewenz, C., Li, L., Yu, Q., Huete, A., 2016a. The importance of interacting climate modes on Australia's contribution to global carbon cycle extremes. *Scientific Reports* 6, 23113. <https://doi.org/10.1038/srep23113>

Cleverly, J., Eamus, D., Restrepo Coupe, N., Chen, C., Maes, W., Li, L., Faux, R., Santini, N.S., Rumman, R., Yu, Q., Huete, A., 2016b. Soil moisture controls on phenology and productivity in a semi-arid critical zone. *Science of the Total Environment* 568, 1227–1237. <https://doi.org/10.1016/j.scitotenv.2016.05.142>

Cleverly, J., Eamus, D., Van Gorsel, E., Chen, C., Rumman, R., Luo, Q., Restrepo Coupe, N., Li, L., Kljun, N., Faux, R., Yu, Q., Huete, A., 2016c. Productivity and evapotranspiration of two contrasting semiarid ecosystems following the 2011 global carbon land sink anomaly. *Agricultural and Forest Meteorology* 220, 151–159. <https://doi.org/10.1016/j.agrformet.2016.01.086>

Comber, A., Fonte, C., Foody, G., Fritz, S., Harris, P., Olteanu-Raimond, A.-M., See, L., 2016. Geographically weighted evidence combination approaches for combining discordant and inconsistent volunteered geographical information. *GEOINFORMATICA* 20, 503–527. <https://doi.org/10.1007/s10707-016-0248-z>

Constable, A.J., Costa, D.P., Schofield, O., Newman, L., Urban, E.R., Jr., Fulton, E.A., Melbourne-Thomas, J., Ballerini, T., Boyd, P.W., Brandt, A., de la Mare, W.K., Edwards, M., Eleaume, M., Emmerson, L., Fennel, K., Fielding, S., Griffiths, H., Gutt, J., Hindell, M.A., Hofmann, E.E., Jennings, S., La, H.S., McCurdy, A., Mitchell, B.G., Moltmann, T., Muelbert, M., Murphy, E., Press, A.J., Raymond, B., Reid, K., Reiss, C., Rice, J., Salter, I., Smith, D.C., Song, S., Southwell, C., Swadling, K.M., Van de Putte, A., Willis, Z., 2016. Developing priority variables ("ecosystem Essential Ocean Variables" - eEOVs) for observing dynamics and change in Southern Ocean ecosystems. *JOURNAL OF MARINE SYSTEMS* 161, 26–41. <https://doi.org/10.1016/j.jmarsys.2016.05.003>

Costion, C., Lowe, A., Rossetto, M., Kooyman, R., Breed, M., Ford, A., Crayn, D., 2016. Building a plant DNA barcode reference library for a diverse tropical flora: an example from Queensland, Australia. *Diversity* 8, 5.

Davies, J.A.C., Tipping, E., Rowe, E.C., Boyle, J.F., Pannatier, E.G., Martinsen, V., 2016. Long-term P weathering and recent N deposition control contemporary plant-soil C, N, and P. *GLOBAL BIOGEOCHEMICAL CYCLES* 30, 231–249. <https://doi.org/10.1002/2015GB005167>

de Campos Franci, L., Nabe-Nielsen, J., Svenning, J.-C., Martins, F.R., 2016. Short-term spatial variation in the demography of a common Neotropical liana is shaped by tree community structure and light availability. *Plant Ecology* 217, 1273–1290. <https://doi.org/10.1007/s11258-016-0655-0>

de Gruijter, J.J., McBratney, A.B., Minasny, B., Wheeler, I., Malone, B.P., Stockmann, U., 2016. Farm-scale soil carbon auditing. *GEODERMA* 265, 120–130. <https://doi.org/10.1016/j.geoderma.2015.11.010>

De Kauwe, M.G., Lin, Y.-S., Wright, I.J., Medlyn, B.E., Crous, K.Y., Ellsworth, D.S., Maire, V., Prentice, I.C., Atkin, O.K., Rogers, A., Niinemets, U., Serbin, S.P., Meir, P., Uddling, J., Togashi, H.F., Tarvainen, L., Weerasinghe, L.K., Evans, B.J., Ishida, F.Y., Domingues, T.F., 2016. A test of the 'one-point method' for estimating maximum carboxylation capacity from field-measured, light-saturated photosynthesis. *NEW PHYTOLOGIST* 210, 1130–1144. <https://doi.org/10.1111/nph.13815>

Dekker, S.C., Groenendijk, M., Booth, B.B.B., Huntingford, C., Cox, P.M., 2016. Spatial and temporal variations in plant water-use efficiency inferred from tree-ring, eddy covariance and atmospheric observations. *EARTH SYSTEM DYNAMICS* 7, 525–533. <https://doi.org/10.5194/esd-7-525-2016>

Donato, D.C., Fontaine, J.B., Campbell, J.L., 2016. Burning the legacy? Influence of wildfire reburn on dead wood dynamics in a temperate conifer forest. *ECOSPHERE* 7. <https://doi.org/10.1002/ecs2.1341>

Duveiller, G., Cescatti, A., 2016. Spatially downscaling sun-induced chlorophyll fluorescence leads to an improved temporal correlation with gross primary productivity. *Remote Sens. Environ.* 182, 72–89. <https://doi.org/10.1016/j.rse.2016.04.027>

Eamus, D., Huete, A., Cleverly, J., Nolan, R.H., Ma, X., Tarin, T., Santini, N.S., 2016. Mulga, a major tropical dry open forest of Australia: recent insights to carbon and water fluxes. *Environmental Research Letters* 11, 125011. <https://doi.org/10.1088/1748-9326/11/12/125011>

Evans, M.C., 2016. Deforestation in Australia: Drivers, trends and policy responses. *Pacific Conservation Biology* 22, 130–150. <https://doi.org/10.1071/PC15052>

Fang, Y., Sun, G., Caldwell, P., McNulty, S.G., Noormets, A., Domec, J.-C., King, J., Zhang, Z., Zhang, X., Lin, G., Zhou, G., Xiao, J., Chen, J., 2016. Monthly land cover-specific evapotranspiration models derived from global eddy flux measurements and remote sensing data. *ECOHYDROLOGY* 9, 248–266. <https://doi.org/10.1002/eco.1629>

Forsberg, K.J., Patel, S., Witt, E., Wang, B., Ellison, T.D., Dantas, G., 2016. Identification of Genes Conferring Tolerance to Lignocellulose-Derived Inhibitors by Functional Selections in Soil Metagenomes. *APPLIED AND ENVIRONMENTAL MICROBIOLOGY* 82, 528–537. <https://doi.org/10.1128/AEM.02838-15>

Foster, C.N., Barton, P.S., Sato, C.F., Wood, J.T., MacGregor, C.I., Lindenmayer, D.B., 2016. Herbivory and fire interact to affect forest understory habitat, but not its use by small vertebrates. *ANIMAL CONSERVATION* 19, 15–25. <https://doi.org/10.1111/acv.12210>

Gadino, A.N., Brunner, J.F., Chambers, U., Jones, W.E., Castagnoli, S., Jones, V.P., 2016. A perspective on the extension of research-based information to orchard management decision-makers: Lessons learned and potential future directions. *BIOLOGICAL CONTROL* 102, 121–127. <https://doi.org/10.1016/j.biocontrol.2015.11.013>

Gallagher, R.V., 2016. Correlates of range size variation in the Australian seed-plant flora. *JOURNAL OF BIOGEOGRAPHY* 43, 1287–1298. <https://doi.org/10.1111/jbi.12711>

Gibson, R.K., Bradstock, R.A., Penman, T., Keith, D.A., Driscoll, D.A., 2016. Determinants of growth of the flammable grass, *Triodia scariosa*: Consequences for fuel dynamics under climate change in the Mediterranean region of South Eastern Australia. *Austral Ecol.* 41, 594–603. <https://doi.org/10.1111/aec.12348>

Gill, A.L., Finzi, A.C., 2016. Belowground carbon flux links biogeochemical cycles and resource-use efficiency at the global scale. *ECOLOGY LETTERS* 19, 1419–1428. <https://doi.org/10.1111/ele.12690>

Gill, T., Johansen, K., Phinn, S., Trevithick, R., Scarth, P., Armston, J., 2016. A method for mapping Australian woody vegetation cover by linking continental-scale field data and long-term Landsat time series. *INTERNATIONAL JOURNAL OF REMOTE SENSING* 38, 679–705. <https://doi.org/10.1080/01431161.2016.1266112>

Gow, L.J., Barrett, D.J., Renzullo, L.J., Phinn, S.R., O'Grady, A.P., 2016a. A detection problem: Sensitivity and uncertainty analysis of a land surface temperature approach to detecting dynamics of water use by

groundwater-dependent vegetation. ENVIRONMENTAL MODELLING & SOFTWARE 85, 342–355.  
<https://doi.org/10.1016/j.envsoft.2016.09.003>

Gow, L.J., Barrett, D.J., Renzullo, L.J., Phinn, S.R., O’Grady, A.P., 2016b. Characterising groundwater use by vegetation using a surface energy balance model and satellite observations of land surface temperature. Environmental Modelling and Software 80, 66–82. <https://doi.org/10.1016/j.envsoft.2016.02.021>

Grace, J.B., Anderson, T.M., Seabloom, E.W., Borer, E.T., Adler, P.B., Harpole, W.S., Hautier, Y., Hillebrand, H., Lind, E.M., Partel, M., Bakker, J.D., Buckley, Y.M., Crawley, M.J., Damschen, E.I., Davies, K.F., Fay, P.A., Firn, J., Gruner, D.S., Hector, A., Knops, J.M.H., MacDougall, A.S., Melbourne, B.A., Morgan, J.W., Orrock, J.L., Prober, S.M., Smith, M.D., 2016. Integrative modelling reveals mechanisms linking productivity and plant species richness. Nature 529, 390–393. <https://doi.org/10.1038/nature16524>

Gray, J.M., Bishop, T.F.A., 2016. Change in Soil Organic Carbon Stocks under 12 Climate Change Projections over New South Wales, Australia. SOIL SCIENCE SOCIETY OF AMERICA JOURNAL 80, 1296–1307.  
<https://doi.org/10.2136/sssaj2016.02.0038>

Gray, J.M., Bishop, T.F.A., Wilford, J.R., 2016. Lithology and soil relationships for soil modelling and mapping. CATENA 147, 429–440. <https://doi.org/10.1016/j.catena.2016.07.045>

Greenville, A.C., Emery, N.J., 2016. Gathering lots of data on a small budget: Open-source hardware and software technology can redefine data collection. Science 353, 1360–1361.  
<https://doi.org/10.1126/science.aag3057>

Greenville, A.C., Wardle, G.M., Nguyen, V., Dickman, C.R., 2016a. Spatial and temporal synchrony in reptile population dynamics in variable environments. OECOLOGIA 182, 475–485. <https://doi.org/10.1007/s00442-016-3672-8>

Greenville, A.C., Wardle, G.M., Nguyen, V., Dickman, C.R., 2016b. Population dynamics of desert mammals: similarities and contrasts within a multispecies assemblage. ECOSPHERE 7. <https://doi.org/10.1002/ecs2.1343>

Griebel, A., Bennett, L.T., Metzen, D., Cleverly, J., Burba, G., Arndt, S.K., 2016. Effects of inhomogeneities within the flux footprint on the interpretation of seasonal, annual, and interannual ecosystem carbon exchange. Agricultural and Forest Meteorology 221, 50–60. <https://doi.org/10.1016/j.agrformet.2016.02.002>

Guerin, G., Sweeny, S., Pisanu, P., Caddy-Retalic, S., Lowe, A., 2016. Establishment of an ecosystem transect to address climate change policy questions for natural resource management (Technical No. 4), DEWNR Technical report 2016/04. Department of Environment, Water and Natural Resources, Government of South Australia, Adelaide, South Australia.

Guerin, G.R., Biffin, E., Baruch, Z., Lowe, A.J., 2016. Identifying centres of plant biodiversity in South Australia. PLoS One 11, 19. <https://doi.org/10.1371/journal.pone.0144779>

Guru, S., Hanigan, I.C., Nguyen, H.A., Burns, E., Stein, J., Blanchard, W., Lindenmayer, D., Clancy, T., 2016. Development of a cloud-based platform for reproducible science: A case study of an IUCN Red List of Ecosystems Assessment. Ecol. Inform. 36, 221–230. <https://doi.org/10.1016/j.ecoinf.2016.08.003>

Harpole, W.S., Sullivan, L.L., Lind, E.M., Firn, J., Adler, P.B., Borer, E.T., Chase, J., Fay, P.A., Hautier, Y., Hillebrand, H., MacDougall, A.S., Seabloom, E.W., Williams, R., Bakker, J.D., Cadotte, M.W., Chaneton, E.J., Chu, C., Cleland, E.E., D’Antonio, C., Davies, K.F., Gruner, D.S., Hagenah, N., Kirkman, K., Knops, J.M.H., La Pierre, K.J., McCulley, R.L., Moore, J.L., Morgan, J.W., Prober, S.M., Risch, A.C., Schuetz, M., Stevens, C.J., Wragg, P.D., 2016. Addition of multiple limiting resources reduces grassland diversity. Nature 537, 93–96.  
<https://doi.org/10.1038/nature19324>

Haughton, N., Abramowitz, G., Pitman, A.J., Or, D., Best, M.J., Johnson, H.R., Balsamo, G., Boone, A., Cuntz, M., Decharme, B., Dirmeyer, P.A., Dong, J., Ek, M., Guo, Z., Haverd, V., van den Hurk, B.J.J., Nearing, G.S., Pak, B., Santanello, J.A., Stevens, L.E., Vuichard, N., 2016. The plumbing of land surface models: Is poor performance a result of methodology or data quality? *Journal of Hydrometeorology* 17, 1705–1723.  
<https://doi.org/10.1175/JHM-D-15-0171.1>

Haverd, Vanessa, Cuntz, M., Nieradzik, L.P., Harman, I.N., 2016a. Improved representations of coupled soil-canopy processes in the CABLE land surface model (Subversion revision 3432). *GEOSCIENTIFIC MODEL DEVELOPMENT* 9, 3111–3122. <https://doi.org/10.5194/gmd-9-3111-2016>

Haverd, V., Smith, B., Raupach, M., Briggs, P., Nieradzik, L., Beringer, J., Hutley, L., Trudinger, C.M., Cleverly, J., 2016a. Coupling carbon allocation with leaf and root phenology predicts tree–grass partitioning along a savanna rainfall gradient. *Biogeosciences* 13, 761–779. <https://doi.org/10.5194/bg-13-761-2016>

Haverd, V., Smith, B., Trudinger, C., 2016b. Process contributions of Australian ecosystems to interannual variations in the carbon cycle. *Environ. Res. Lett.* 11, 054013. <https://doi.org/10.1088/1748-9326/11/5/054013>

Haverd, Vanessa, Smith, B., Trudinger, C., 2016b. Dryland vegetation response to wet episode, not inherent shift in sensitivity to rainfall, behind Australia's role in 2011 global carbon sink anomaly. *Global Change Biology* 22, 2315–2316. <https://doi.org/10.1111/gcb.13202>

Haywood, A., Mellor, A., Stone, C., 2016. A strategic forest inventory for public land in Victoria, Australia. *For. Ecol. Manage.* 367, 86–96. <https://doi.org/10.1016/j.foreco.2016.02.026>

Holgate, C.M., De Jeu, R.A.M., van Dijk, A.I.J.M., Liu, Y.Y., Renzullo, L.J., Vinodkumar, Dharssi, I., Parinussa, R.M., Van Der Schalie, R., Gevaert, A., Walker, J., McJannet, D., Cleverly, J., Haverd, V., Trudinger, C.M., Briggs, P.R., 2016. Comparison of remotely sensed and modelled soil moisture data sets across Australia. *Remote Sensing of Environment* 186, 479–500. <https://doi.org/10.1016/j.rse.2016.09.015>

Hopkinson, C., Chasmer, L., Barr, A.G., Kljun, N., Black, T.A., McCaughey, J.H., 2016a. Monitoring boreal forest biomass and carbon storage change by integrating airborne laser scanning, Biometry and eddy covariance data. *Remote Sensing of Environment* 181, 82–95. <https://doi.org/10.1016/j.rse.2016.04.010>

Hopkinson, C., Chasmer, L., Barr, A.G., Kljun, N., Black, T.A., McCaughey, J.H., 2016b. Monitoring boreal forest biomass and carbon storage change by integrating airborne laser scanning, biometry and eddy covariance data. *Remote Sens. Environ.* 181, 82–95. <https://doi.org/10.1016/j.rse.2014.04.010>

Huang, M., Piao, S., Zeng, Z., Peng, S., Ciais, P., Cheng, L., Mao, J., Poulter, B., Shi, X., Yao, Y., Yang, H., Wang, Y., 2016. Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. *GLOBAL CHANGE BIOLOGY* 22, 2165–2177. <https://doi.org/10.1111/gcb.13180>

Huang, X., Clements, A.C.A., Williams, G., Mengersen, K., Tong, S., Hu, W., 2016. Bayesian estimation of the dynamics of pandemic (H1N1) 2009 influenza transmission in Queensland: A space-time SIR-based model. *ENVIRONMENTAL RESEARCH* 146, 308–314. <https://doi.org/10.1016/j.envres.2016.01.013>

Huh, T., Jung, H.K., 2016. Data quality improvement for Korean National long-term ecological research. *International Journal of Applied Engineering Research* 11, 7722–7727.

Hunt, J.E., Laubach, J., Barthel, M., Fraser, A., Phillips, R.L., 2016. Carbon budgets for an irrigated intensively grazed dairy pasture and an unirrigated winter-grazed pasture. *Biogeosciences* 13, 2927–2944. <https://doi.org/10.5194/bg-13-2927-2016>

Jackson, H., Prince, S.D., 2016. Degradation of non-photosynthetic vegetation in a semi-arid rangeland. *Remote Sensing* 8. <https://doi.org/10.3390/rs8080692>

Jensen, T., Holtz, G., Baedeker, C., Chappin, E.J.L., 2016. Energy-efficiency impacts of an air-quality feedback device in residential buildings: An agent-based modeling assessment. ENERGY AND BUILDINGS 116, 151–163. <https://doi.org/10.1016/j.enbuild.2015.11.067>

Jia, A., Jiang, B., Liang, S., Zhang, X., Ma, H., 2016. Validation and Spatiotemporal Analysis of CERES Surface Net Radiation Product. REMOTE SENSING 8. <https://doi.org/10.3390/rs8020090>

Jiang, C., Ryu, Y., 2016. Multi-scale evaluation of global gross primary productivity and evapotranspiration products derived from Breathing Earth System Simulator (BESS). Remote Sensing of Environment 186, 528–547. <https://doi.org/10.1016/j.rse.2016.08.030>

Jones, M.M., Gibson, N., Yates, C., Ferrier, S., Mokany, K., Williams, K.J., Manion, G., Svenning, J.-C., 2016. Underestimated effects of climate on plant species turnover in the Southwest Australian Floristic Region. JOURNAL OF BIOGEOGRAPHY 43, 289–300. <https://doi.org/10.1111/jbi.12628>

Kanniah, K.D., Beringer, J., 2016. Tropical Savanna Ecosystems, in: International Encyclopedia of Geography: People, the Earth, Environment and Technology. John Wiley & Sons, Ltd.

Karan, M., Liddell, M., Prober, S., Arndt, S., Beringer, J., Boer, M., Cleverly, J., Eamus, D., Grace, P., van Gorsel, E., Hero, J.-M., Hutley, L., Macfarlane, C., Metcalfe, D., Meyer, W., Pendall, E., Sebastian, A., Wardlaw, T., 2016. The Australian SuperSite Network: a continental, long-term terrestrial ecosystem observatory. Science of the Total Environment 568, 1263–1274. <https://doi.org/10.1016/j.scitotenv.2016.05.170>

Keith, A.M., Schmidt, O., McMahon, B.J., 2016. Soil stewardship as a nexus between Ecosystem Services and One Health. ECOSYSTEM SERVICES 17, 40–42. <https://doi.org/10.1016/j.ecoser.2015.11.008>

Kowalczyk, E.A., Stevens, L.E., Law, R.M., Harman, I.N., Dix, M., Franklin, C.N., Wang, Y.-P., 2016. The impact of changing the land surface scheme in ACCESS(v1.0/1.1) on the surface climatology. GEOSCIENTIFIC MODEL DEVELOPMENT 9, 2771–2791. <https://doi.org/10.5194/gmd-9-2771-2016>

Kunnath-Poovakka, A., Ryu, D., Renzullo, L.J., George, B., 2016. The efficacy of calibrating hydrologic model using remotely sensed evapotranspiration and soil moisture for streamflow prediction. JOURNAL OF HYDROLOGY 535, 509–524. <https://doi.org/10.1016/j.jhydrol.2016.02.018>

Kwok, A.B.C., Wardle, G.M., Greenville, A.C., Dickman, C.R., 2016. Long-term patterns of invertebrate abundance and relationships to environmental factors in arid Australia. AUSTRAL ECOLOGY 41, 480–491. <https://doi.org/10.1111/aec.12334>

La Salle, J., Williams, K.J., Moritz, C., 2016. Biodiversity analysis in the digital era. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 371. <https://doi.org/10.1098/rstb.2015.0337>

Laubach, J., Barthel, M., Fraser, A., Hunt, J.E., Griffith, D.W.T., 2016. Combining two complementary micrometeorological methods to measure CH<sub>4</sub> and N<sub>2</sub>O fluxes over pasture. Biogeosciences 13, 1309–1327. <https://doi.org/10.5194/bg-13-1309-2016>

Lawley, E.F., Lewis, M.M., Ostendorf, B., 2016. A remote sensing spatio-temporal framework for interpreting sparse indicators in highly variable arid landscapes. ECOLOGICAL INDICATORS 60, 1284–1297. <https://doi.org/10.1016/j.ecolind.2015.01.042>

Lawley, V., Lewis, M., Clarke, K., Ostendorf, B., 2016. Site-based and remote sensing methods for monitoring indicators of vegetation condition: An Australian review. Ecological Indicators 60, 1273–1283. <https://doi.org/10.1016/j.ecolind.2015.03.021>

Li, G.Q., Harrison, S.P., Prentice, I.C., 2016. A model analysis of climate and CO<sub>2</sub> controls on tree growth and carbon allocation in a semi-arid woodland. *Ecol. Model.* 342, 175–185.

<https://doi.org/10.1016/j.ecolmodel.2016.10.005>

Lindenmayer, D., Crane, M., Blanchard, W., Okada, S., Montague-Drake, R., 2016. Do nest boxes in restored woodlands promote the conservation of hollow-dependent fauna? *RESTORATION ECOLOGY* 24, 244–251.

<https://doi.org/10.1111/rec.12306>

Lindenmayer, D.B., Blanchard, W., Blair, D., McBurney, L., Banks, S.C., 2016a. Environmental and human drivers influencing large old tree abundance in Australian wet forests. *FOREST ECOLOGY AND MANAGEMENT* 372, 226–235. <https://doi.org/10.1016/j.foreco.2016.04.017>

Lindenmayer, D.B., Blanchard, W., MacGregor, C., Barton, P., Banks, S.C., Crane, M., Michael, D., Okada, S., Berry, L., Florance, D., Gill, M., 2016b. Temporal trends in mammal responses to fire reveals the complex effects of fire regime attributes. *ECOLOGICAL APPLICATIONS* 26, 557–573. <https://doi.org/10.1890/15-0575>

Lindenmayer, D.B., Candy, S.G., MacGregor, C.I., Banks, S.C., Westgate, M., Ikin, K., Pierson, J., Tulloch, A., Barton, P., 2016c. Do temporal changes in vegetation structure additional to time since fire predict changes in bird occurrence? *ECOLOGICAL APPLICATIONS* 26, 2267–2279. <https://doi.org/10.1002/eap.1367>

Lindenmayer, D.B., MacGregor, C., Wood, J., Westgate, M.J., Ikin, K., Foster, C., Ford, F., Zentelis, R., 2016d. Bombs, fire and biodiversity: Vertebrate fauna occurrence in areas subject to military training. *BIOLOGICAL CONSERVATION* 204, 276–283. <https://doi.org/10.1016/j.biocon.2016.10.030>

Liu, Yanxu, Wang, Y., Du, Y., Zhao, M., Peng, J., 2016. The application of polynomial analyses to detect global vegetation dynamics during 1982–2012. *INTERNATIONAL JOURNAL OF REMOTE SENSING* 37, 1568–1584. <https://doi.org/10.1080/01431161.2016.1142688>

Liu, Yuxia, Wu, C., Peng, D., Xu, S., Gonsamo, A., Jassal, R.S., Arain, M.A., Lu, L., Fang, B., Chen, J.M., 2016. Improved modeling of land surface phenology using MODIS land surface reflectance and temperature at evergreen needleleaf forests of central North America. *REMOTE SENSING OF ENVIRONMENT* 176, 152–162. <https://doi.org/10.1016/j.rse.2016.01.021>

Ma, X., Huete, A., Cleverly, J., Eamus, D., Chevallier, F., Joiner, J., Poulter, B., Zhang, Y., Guanter, L., Meyer, W., Xie, Z., Ponce-Campos, G., 2016a. Drought rapidly diminishes the large net CO<sub>2</sub> uptake in 2011 over semi-arid Australia. *Scientific Reports* 6, 37747. <https://doi.org/10.1038/srep37747>

Ma, X., Huete, A., Poulter, B., Eamus, D., Cleverly, J., 2016b. Australia’s “great green boom” of 2010–11 has been undone by drought. *The Conversation*.

Mahoney, C., Hopkinson, C., Held, A., Kljun, N., van Gorsel, E., 2016a. ICESat/GLAS canopy height sensitivity inferred from airborne LiDAR. *Photogramm. Eng. Remote Sens.* 82, 351–363. <https://doi.org/10.14358/pers.82.5.351>

Mahoney, C., Hopkinson, C., Held, A., Simard, M., 2016b. Continental-scale canopy height modeling by integrating national, spaceborne, and airborne LiDAR data. *Can. J. Remote Sens.* 42, 574–590. <https://doi.org/10.1080/07038992.2016.1196580>

Makela, J., Susiluoto, J., Markkanen, T., Aurela, M., Jarvinen, H., Mammarella, I., Hagemann, S., Aalto, T., 2016. Constraining ecosystem model with adaptive Metropolis algorithm using boreal forest site eddy covariance measurements. *NONLINEAR PROCESSES IN GEOPHYSICS* 23, 447–465. <https://doi.org/10.5194/npg-23-447-2016>

Martens, B., Miralles, D., Lievens, H., Fernández-Prieto, D., Verhoest, N.E.C., 2016. Improving terrestrial evaporation estimates over continental Australia through assimilation of SMOS soil moisture. *International Journal of Applied Earth Observation and Geoinformation* 48, 146–162. <https://doi.org/10.1016/j.jag.2015.09.012>

Mason, T.J., Keith, D.A., 2016. Vegetation change and conservation status of Coastal Upland Swamps. ECOLOGICAL MANAGEMENT & RESTORATION 17, 254–256. <https://doi.org/10.1111/emr.12220>

Mayer, A.L., Buma, B., Davis, A., Gagne, S.A., Loudermilk, E.L., Scheller, R.M., Schmiegelow, F.K.A., Wiersma, Y.F., Franklin, J., 2016. How Landscape Ecology Informs Global Land-Change Science and Policy. BIOSCIENCE 66, 458–469. <https://doi.org/10.1093/biosci/biw035>

McDonald, T., Jonson, J., Dixon, K.W., 2016. National standards for the practice of ecological restoration in Australia. RESTORATION ECOLOGY 24, S6–S32. <https://doi.org/10.1111/rec.12359>

McIlroy, J., 2016. CSIRO job cuts crisis deepens. Green Left Weekly NA.

Medeiros, C.B., Katz, D.S., 2016. eScience today and tomorrow. Future Generation Computer Systems 56, 523–525. <https://doi.org/10.1016/j.future.2015.10.016>

Merlin, O., Stefan, V.G., Amazirh, A., Chanzy, A., Ceschia, E., Er-Raki, S., Gentine, P., Tallec, T., Ezzahar, J., Bircher, S., Beringer, J., Khabba, S., 2016. Modeling soil evaporation efficiency in a range of soil and atmospheric conditions using a meta-analysis approach. WATER RESOURCES RESEARCH 52, 3663–3684. <https://doi.org/10.1002/2015WR018233>

Metzger, S., Burba, G., Burns, S.P., Blanken, P.D., Li, J., Luo, H., Zulueta, R.C., 2016. Optimization of an enclosed gas analyzer sampling system for measuring eddy covariance fluxes of H<sub>2</sub>O and CO<sub>2</sub>. ATMOSPHERIC MEASUREMENT TECHNIQUES 9, 1341–1359. <https://doi.org/10.5194/amt-9-1341-2016>

Michel, D., Jimenez, C., Miralles, D.G., Jung, M., Hirschi, M., Ershadi, A., Martens, B., McCabe, M.F., Fisher, J.B., Mu, Q., Seneviratne, S.I., Wood, E.F., Fernandez-Prieto, D., 2016. The WACMOS-ET project - Part 1: Tower-scale evaluation of four remote-sensing-based evapotranspiration algorithms. HYDROLOGY AND EARTH SYSTEM SCIENCES 20, 803–822. <https://doi.org/10.5194/hess-20-803-2016>

Mitchell, M.G.E., Wu, D., Johansen, K., Maron, M., McAlpine, C., Rhodes, J.R., 2016. Landscape structure influences urban vegetation vertical structure. JOURNAL OF APPLIED ECOLOGY 53, 1477–1488. <https://doi.org/10.1111/1365-2664.12741>

Mitchell, P.J., O'Grady, A.P., Pinkard, E.A., Brodribb, T.J., Arndt, S.K., Blackman, C.J., Duursma, R.A., Fensham, R.J., Hilbert, D.W., Nitschke, C.R., Norris, J., Roxburgh, S.H., Ruthrof, K.X., Tissue, D.T., 2016. An ecoclimatic framework for evaluating the resilience of vegetation to water deficit. Glob. Change Biol. 22, 1677–1689. <https://doi.org/10.1111/gcb.13177>

Moncrieff, G.R., Scheiter, S., Langan, L., Trabucco, A., Higgins, S.I., 2016. The future distribution of the savannah biome: model-based and biogeographic contingency. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 371. <https://doi.org/10.1098/rstb.2015.0311>

Moore, C.E., Beringer, J., Evans, B., Hutley, L.B., McHugh, I., Tapper, N.J., 2016a. The contribution of trees and grasses to productivity of an Australian tropical savanna. Biogeosciences 13, 2387–2403. <https://doi.org/10.5194/bg-13-2387-2016>

Moore, C.E., Brown, T., Keenan, T.F., Duursma, R.A., van Dijk, A.I.J.M., Beringer, J., Culvenor, D., Evans, B., Huete, A., Hutley, L.B., Maier, S., Restrepo-Coupe, N., Sonnentag, O., Specht, A., Taylor, J.R., van Gorsel, E., Liddell, M.J., 2016b. Reviews and syntheses: Australian vegetation phenology: new insights from satellite remote sensing and digital repeat photography. Biogeosciences 13, 5085–5102. <https://doi.org/10.5194/bg-13-5085-2016>

Moran, M.S., Heilman, P., Peters, D.P.C., Collins, C.H., 2016. Agroecosystem research with big data and a modified scientific method using machine learning concepts. ECOSPHERE 7. <https://doi.org/10.1002/ecs2.1493>

Moreno-de las Heras, M., Turnbull, L., Wainwright, J., 2016. Seed-bank structure and plant-recruitment conditions regulate the dynamics of a grassland-shrubland Chihuahuan ecotone. *ECOLOGY* 97, 2303–2318. <https://doi.org/10.1002/ecy.1446>

Morgan, J.W., Dwyer, J., Price, J.N., Prober, S.M., Power, S.A., Firn, J., Moore, J.L., Wardle, G., Seabloom, E.W., Borer, E.T., Camac, J.S., 2016. Species origin affects the rate of response to inter-annual growing season precipitation and nutrient addition in four Australian native grasslands. *J. Veg. Sci.* 27, 1164–1176. <https://doi.org/10.1111/jvs.12450>

Noh, N.-J., Kurabayashi, M., Saitoh, T.M., Nakaji, T., Nakamura, M., Hiura, T., Muraoka, H., 2016. Responses of Soil, Heterotrophic, and Autotrophic Respiration to Experimental Open-Field Soil Warming in a Cool-Temperate Deciduous Forest. *ECOSYSTEMS* 19, 504–520. <https://doi.org/10.1007/s10021-015-9948-8>

Nolan, R.H., Resco de Dios, V., Boer, M.M., Caccamo, G., Goulden, M.L., Bradstock, R.A., 2016. Predicting dead fine fuel moisture at regional scales using vapour pressure deficit from MODIS and gridded weather data. *Remote Sensing of Environment* 174, 100–108. <https://doi.org/10.1016/j.rse.2015.12.010>

Opare, S., 2016. Practising the past in the present: using Ghanaian indigenous methods for water quality determination in the contemporary era. *Environment, Development and Sustainability* 1–20. <https://doi.org/10.1007/s10668-016-9851-2>

Osuri, A.M., Ratnam, J., Varma, V., Alvarez-Loayza, P., Hurtado Astaiza, J., Bradford, M., Fletcher, C., Ndoundou-Hockemba, M., Jansen, P.A., Kenfack, D., Marshall, A.R., Ramesh, B.R., Rovero, F., Sankaran, M., 2016. Contrasting effects of defaunation on aboveground carbon storage across the global tropics. *NATURE COMMUNICATIONS* 7. <https://doi.org/10.1038/ncomms11351>

Pereoglou, F., MacGregor, C., Banks, S.C., Wood, J., Ford, F., Lindenmayer, D.B., 2016. Landscape, fire and habitat: which features of recently burned heathland influence site occupancy of an early successional specialist? *LANDSCAPE ECOLOGY* 31, 255–269. <https://doi.org/10.1007/s10980-015-0240-2>

Perga, M.-E., Maberly, S.C., Jenny, J.-P., Alric, B., Pignol, C., Naffrechoux, E., 2016. A century of human-driven changes in the carbon dioxide concentration of lakes. *GLOBAL BIOGEOCHEMICAL CYCLES* 30, 93–104. <https://doi.org/10.1002/2015GB005286>

Pfautsch, S., Harbusch, M., Wesolowski, A., Smith, R., Macfarlane, C., Tjoelker, M.G., Reich, P.B., Adams, M.A., 2016. Climate determines vascular traits in the ecologically diverse genus *Eucalyptus*. *ECOLOGY LETTERS* 19, 240–248. <https://doi.org/10.1111/ele.12559>

Popic, T.J., Davila, Y.C., Wardle, G.M., 2016. Cheater or mutualist? Novel florivory interaction between nectar-rich *Crotalaria cunninghamii* and small mammals. *AUSTRAL ECOLOGY* 41, 390–398. <https://doi.org/10.1111/aec.12324>

Prober, S.M., Potts, B.M., Bailey, T., Byrne, M., Dillon, S., Harrison, P.A., Hoffmann, A.A., Jordan, R., Mclean, E.H., Steane, D.A., Stock, W.D., Vaillancourt, R.E., 2016. Climate adaptation and ecological restoration in eucalypts, in: *Proceedings of the Royal Society of Victoria*. pp. 40–53. <https://doi.org/10.1071/RS16004>

Rajib, M.A., Merwade, V., Kim, I.L., Zhao, L., Song, C., Zhe, S., 2016. SWATShare A web platform for collaborative research and education through online sharing, simulation and visualization of SWAT models. *ENVIRONMENTAL MODELLING & SOFTWARE* 75, 498–512. <https://doi.org/10.1016/j.envsoft.2015.10.032>

Rasaiah, B., Bellman, C., Hewson, R.D., Jones, S.D., Malthus, T.J., 2016. Enhanced data discoverability for in situ hyperspectral datasets, in: XXIII ISPRS CONGRESS, COMMISSION IV, International Archives of the Photogrammetry Remote Sensing and Spatial Information Sciences. Int Soc Photogrammetry & Remote Sensing, pp. 49–52. <https://doi.org/10.5194/isprsannals-III-4-49-2016>

Restrepo-Coupe, N., Huete, A., Davies, K., Cleverly, J., Beringer, J., Eamus, D., van Gorsel, E., Hutley, L.B., Meyer, W.S., 2016. MODIS vegetation products as proxies of photosynthetic potential along a gradient of meteorologically and biologically driven ecosystem productivity. *Biogeosciences* 13, 5587–5608.  
<https://doi.org/10.5194/bg-13-5587-2016>

Rossel, R.A.V., Bouma, J., 2016. Soil sensing: A new paradigm for agriculture. *AGRICULTURAL SYSTEMS* 148, 71–74. <https://doi.org/10.1016/j.agrsy.2016.07.001>

Rossel, R.A.V., Bui, E.N., 2016. A new detailed map of total phosphorus stocks in Australian soil. *SCIENCE OF THE TOTAL ENVIRONMENT* 542, 1040–1049. <https://doi.org/10.1016/j.scitotenv.2015.09.119>

Ruiz-Villanueva, V., Piegay, H., Gaertner, V., Perret, F., Stoffel, M., 2016. Wood density and moisture sorption and its influence on large wood mobility in rivers. *CATENA* 140, 182–194.  
<https://doi.org/10.1016/j.catena.2016.02.001>

Ryder, J., Polcher, J., Peylin, P., Ottlé, C., Chen, Y., Van Gorsel, E., Haverd, V., McGrath, M.J., Naudts, K., Otto, J., Valade, A., Luyssaert, S., 2016. A multi-layer land surface energy budget model for implicit coupling with global atmospheric simulations. *Geoscientific Model Development* 9, 223–245. <https://doi.org/10.5194/gmd-9-223-2016>

Santini, N.S., Cleverly, J., Faux, R., Lestrage, C., Rumman, R., Eamus, D., 2016. Xylem traits and water-use efficiency of woody species co-occurring in the Ti Tree Basin arid zone. *Trees* 30, 295–303.  
<https://doi.org/10.1007/s00468-015-1301-5>

Santos Goncalves Silva, L.F., de Castilho, C.V., Cavalcante, C. de O., Pimentel, T.P., Fearnside, P.M., Barbosa, R.I., 2016. Production and stock of coarse woody debris across a hydro-edaphic gradient of oligotrophic forests in the northern Brazilian Amazon. *FOREST ECOLOGY AND MANAGEMENT* 364, 1–9.  
<https://doi.org/10.1016/j.foreco.2015.12.045>

Sesartíc, A., Fischlin, A., Töwe, M., 2016. Towards narrowing the curation gap-theoretical considerations and lessons learned from decades of practice. *ISPRS International Journal of Geo-Information* 5.  
<https://doi.org/10.3390/ijgi5060091>

Shellito, P.J., Small, E.E., Colliander, A., Bindlish, R., Cosh, M.H., Berg, A.A., Bosch, D.D., Caldwell, T.G., Goodrich, D.C., McNairn, H., Prueger, J.H., Starks, P.J., van der Velde, R., Walker, J.P., 2016. SMAP soil moisture drying more rapid than observed in situ following rainfall events. *Geophysical Research Letters* 43, 8068–8075.  
<https://doi.org/10.1002/2016GL069946>

Slatyer, R.A., Nash, M.A., Hoffmann, A.A., 2016. Scale-dependent thermal tolerance variation in Australian mountain grasshoppers. *ECOGRAPHY* 39, 572–582. <https://doi.org/10.1111/ecog.01616>

Smith, A.L., Blanchard, W., Blair, D.P., McBurney, L., Banks, S.C., Driscoll, D.A., Lindenmayer, D.B., 2016. The dynamic regeneration niche of a forest following a rare disturbance event. *DIVERSITY AND DISTRIBUTIONS* 22, 457–467. <https://doi.org/10.1111/ddi.12414>

Somarathna, P.D.S.N., Malone, B.P., Minasny, B., 2016. Mapping soil organic carbon content over New South Wales, Australia using local regression kriging. *Geoderma Regional* 7, 38–48.  
<https://doi.org/10.1016/j.geodrs.2015.12.002>

Song, M.L., Fisher, R., Wang, J.L., Cui, L.B., 2016. Environmental performance evaluation with big data: theories and methods. *Annals of Operations Research* 1–14. <https://doi.org/10.1007/s10479-016-2158-8>

Staunton, K.M., Nakamura, A., Burwell, C.J., Robson, S.K.A., Williams, S.E., 2016. Elevational Distribution of Flightless Ground Beetles in the Tropical Rainforests of North-Eastern Australia. *PLOS ONE* 11.  
<https://doi.org/10.1371/journal.pone.0155826>

Strickland, C., Liedloff, A.C., Cook, G.D., Dangelmayr, G., Shipman, P.D., 2016. The role of water and fire in driving tree dynamics in Australian savannas. *J. Ecol.* 104, 828–840. <https://doi.org/10.1111/1365-2745.12550>

Sulaiman, F.R., Mustaffa, N.F.S., Khazaai, S.N.M., 2016. Preliminary assessment of selected metals in agricultural soils in Jengka, Pahang, Malaysia. *ENVIRONMENTAL EARTH SCIENCES* 75. <https://doi.org/10.1007/s12665-015-4926-1>

Sun, Q., Meyer, W.S., Koerber, G.R., Marschner, P., 2016. A wildfire event influences ecosystem carbon fluxes but not soil respiration in a semi-arid woodland. *Agricultural and Forest Meteorology* 226–227, 57–66. <https://doi.org/10.1016/j.agrformet.2016.05.019>

Thackway, R., Freudenberger, D., 2016. Accounting for the Drivers that Degrade and Restore Landscape Functions in Australia. *LAND* 5. <https://doi.org/10.3390/land5040040>

Tng, D.Y.P., Apgaua, D.M.G., Campbell, M.J., Cox, C.J., Crayn, D.M., Ishida, F.Y., Liddell, M.J., Seager, M., Laurance, S.G.W., 2016. Vegetation and floristics of a lowland tropical rainforest in northeast Australia. *Biodiversity Data Journal* 4, e7599. <https://doi.org/10.3897/BDJ.4.e7599>

Tokmakoff, A., Sparrow, B., Turner, D., Lowe, A., 2016. AusPlots Rangelands field data collection and publication: Infrastructure for ecological monitoring. *Futur. Gener. Comp. Syst.* 56, 537–549. <https://doi.org/10.1016/j.future.2015.08.016>

Trudinger, C.M., Haverd, V., Briggs, P.R., Canadell, J.G., 2016. Interannual variability in Australia's terrestrial carbon cycle constrained by multiple observation types. *Biogeosciences* 13, 6363–6383. <https://doi.org/10.5194/bg-13-6363-2016>

Ukkola, A. M., De Kauwe, M.G., Pitman, A.J., Best, M.J., Abramowitz, G., Haverd, V., Decker, M., Haughton, N., 2016. Land surface models systematically overestimate the intensity, duration and magnitude of seasonal-scale evaporative droughts. *ENVIRONMENTAL RESEARCH LETTERS* 11. <https://doi.org/10.1088/1748-9326/11/10/104012>

Ukkola, Anna M., Pitman, A.J., Decker, M., De Kauwe, M.G., Abramowitz, G., Kala, J., Wang, Y.-P., 2016. Modelling evapotranspiration during precipitation deficits: identifying critical processes in a land surface model. *HYDROLOGY AND EARTH SYSTEM SCIENCES* 20, 2403–2419. <https://doi.org/10.5194/hess-20-2403-2016>

van Delden, L., Rowlings, D., Scheer, C., Grace, P.R., 2016. Urbanisation-related land use change from forest and pasture into turf grass modifies soil nitrogen cycling and increases N<sub>2</sub>O emissions. *BIOGEOSCIENCES* 13, 6095–6106. <https://doi.org/10.5194/bg-13-6095-2016>

van Gorsel, E., Wolf, S., Cleverly, J., Isaac, P., Haverd, V., Ewenz, C., Arndt, S., Beringer, J., Resco de Dios, V., Evans, B.J., Griebel, A., Hutley, L.B., Keenan, T., Kljun, N., Macfarlane, C., Meyer, W.S., McHugh, I., Pendall, E., Prober, S.M., Silberstein, R., 2016. Carbon uptake and water use in woodlands and forests in southern Australia during an extreme heat wave event in the "Angry Summer" of 2012/2013. *Biogeosciences* 13, 5947–5964. <https://doi.org/10.5194/bg-13-5947-2016>

Van Holt, T., Johnson, J.C., Moates, S., Carley, K.M., 2016. The Role of Datasets on Scientific Influence within Conflict Research. *PLOS ONE* 11. <https://doi.org/10.1371/journal.pone.0154148>

Weathers, K.C., Groffman, P.M., Van Dolah, E., Bernhardt, E., Grimm, N.B., McMahon, K., Schimel, J., Paolosso, M., Maranger, R., Baer, S., Brauman, K., Hinckley, E., 2016. Frontiers in Ecosystem Ecology from a Community Perspective: The Future is Boundless and Bright. *ECOSYSTEMS* 19, 753–770. <https://doi.org/10.1007/s10021-016-9967-0>

Webster, E., Ramp, D., Kingsford, R.T., 2016. Spatial sensitivity of surface energy balance algorithms to meteorological data in a heterogeneous environment. REMOTE SENSING OF ENVIRONMENT 187, 294–319. <https://doi.org/10.1016/j.rse.2016.10.019>

Whitley, R., Beringer, J., Hutley, L.B., Abramowitz, G., De Kauwe, M.G., Duursma, R., Evans, B., Haverd, V., Li, L., Ryu, Y., Smith, B., Wang, Y.P., Williams, M., Yu, Q., 2016. A model inter-comparison study to examine limiting factors in modelling Australian tropical savannas. Biogeosciences 13, 3245–3265. <https://doi.org/10.5194/bg-13-3245-2016>

Wilford, J.R., Searle, R., Thomas, M., Pagendam, D., Grundy, M.J., 2016. A regolith depth map of the Australian continent. Geoderma 266, 1–13. <https://doi.org/10.1016/j.geoderma.2015.11.033>

Wolski, M., Howard, L.M., Richardson, J., 2016. The importance of tools in the data lifecycle. Digital Library Perspectives 33, 235–252. <https://doi.org/10.1108/DLP-11-2016-0042>

Woodgate, W., Armston, J.D., Disney, M., Jones, S.D., Suarez, L., Hill, M.J., Wilkes, P., Soto-Berelov, M., 2016. Quantifying the impact of woody material on leaf area index estimation from hemispherical photography using 3D canopy simulations. AGRICULTURAL AND FOREST METEOROLOGY 226, 1–12. <https://doi.org/10.1016/j.agrformet.2016.05.009>

Yao, Y., Liang, S., Li, X., Liu, S., Chen, J., Zhang, X., Jia, K., Jiang, B., Xie, X., Munier, S., Liu, M., Yu, J., Lindroth, A., Varlagin, A., Raschi, A., Noormets, A., Pio, C., Wohlfahrt, G., Sun, G., Domec, J.-C., Montagnani, L., Lund, M., Eddy, M., Blanken, P.D., Gruenwald, T., Wolf, S., Magliulo, V., 2016. Assessment and simulation of global terrestrial latent heat flux by synthesis of CMIP5 climate models and surface eddy covariance observations. AGRICULTURAL AND FOREST METEOROLOGY 223, 151–167. <https://doi.org/10.1016/j.agrformet.2016.03.016>

Yevide, A.S.I., Wu, B., Khan, A.S., Zeng, Y., Liu, J., 2016. Bibliometric analysis of ecosystem monitoring-related research in Africa: implications for ecological stewardship and scientific collaboration. INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT AND WORLD ECOLOGY 23, 412–422. <https://doi.org/10.1080/13504509.2015.1129998>

Youngentob, K.N., Zdenek, C., van Gorsel, E., 2016. A simple and effective method to collect leaves and seeds from tall trees. METHODS IN ECOLOGY AND EVOLUTION 7, 1119–1123. <https://doi.org/10.1111/2041-210X.12554>

Zhang, Yongqiang, Peña-Arancibia, J.L., McVicar, T.R., Chiew, F.H.S., Vaze, J., Liu, C., Lu, X., Zheng, H., Wang, Y., Liu, Y.Y., Miralles, D.G., Pan, M., 2016. Multi-decadal trends in global terrestrial evapotranspiration and its components. Scientific Reports 6, 19124. <https://doi.org/10.1038/srep19124>

Zhang, Y., Song, C., Sun, G., Band, L.E., McNulty, S., Noormets, A., Zhang, Q., Zhang, Z., 2016. Development of a coupled carbon and water model for estimating global gross primary productivity and evapotranspiration based on eddy flux and remote sensing data. AGRICULTURAL AND FOREST METEOROLOGY 223, 116–131. <https://doi.org/10.1016/j.agrformet.2016.04.003>

Zhang, Y., Zheng, H., Chiew, F.H.S., Peña-Arancibia, J., Zhou, X., 2016. Evaluating regional and global hydrological models against streamflow and evapotranspiration measurements. Journal of Hydrometeorology 17, 995–1010. <https://doi.org/10.1175/JHM-D-15-0107.1>

Zhuang, W., Cheng, L., Whitley, R., Shi, H., Beringer, J., Wang, Y., He, L., Cleverly, J., Eamus, D., Yu, Q., 2016. How energy and water availability constrain vegetation water-use along the North Australian Tropical Transect. International Journal of Plant Production 10, 403–424.

## 2015

---

Adams-Hosking, C., McAlpine, C.A., Rhodes, J.R., Moss, P.T., Grantham, H.S., 2015. Prioritizing Regions to Conserve a Specialist Folivore: Considering Probability of Occurrence, Food Resources, and Climate Change. *CONSERVATION LETTERS* 8, 162–170. <https://doi.org/10.1111/conl.12125>

Alvarez-Romero, J.G., Adams, V.M., Pressey, R.L., Douglas, M., Dale, A.P., Auge, A.A., Ball, D., Childs, J., Digby, M., Dobbs, R., Gobius, N., Hinchley, D., Lancaster, I., Maughan, M., Perdrisat, I., 2015. Integrated cross-realm planning: A decision-makers' perspective. *BIOLOGICAL CONSERVATION* 191, 799–808. <https://doi.org/10.1016/j.biocon.2015.07.003>

Andersen, A.N., Toro, I.D., Parr, C.L., 2015. Savanna ant species richness is maintained along a bioclimatic gradient of increasing latitude and decreasing rainfall in northern Australia. *Journal of Biogeography* 42, 2313–2322. <https://doi.org/10.1111/jbi.12599>

Apgaua, D.M.G., Ishida, F.Y., Tng, D.Y.P., Laidlaw, M.J., Santos, R.M., Rumman, R., Eamus, D., Holtum, J.A.M., Laurance, S.G.W., 2015. Functional traits and water transport strategies in lowland tropical rainforest trees. *PLoS ONE* 10, e0130799. <https://doi.org/10.1371/journal.pone.0130799>

Arndt, S.K., Sanders, G.J., Bristow, M., Hutley, L.B., Beringer, J., Livesley, S.J., 2015. Vulnerability of native savanna trees and exotic *Khaya senegalensis* to seasonal drought. *Tree Physiology* 35, 783–791. <https://doi.org/10.1093/treephys/tpv037>

Atkin, O.K., Bloomfield, K.J., Reich, P.B., Tjoelker, M.G., Asner, G.P., Bonal, D., Bonisch, G., Bradford, M.G., Cernusak, L.A., Cosio, E.G., Creek, D., Crous, K.Y., Domingues, T.F., Dukes, J.S., Egerton, J.J.G., Evans, J.R., Farquhar, G.D., Fyllas, N.M., Gauthier, P.P.G., Gloor, E., Gimeno, T.E., Griffin, K.L., Guerrieri, R., Heskell, M.A., Huntingford, C., Ishida, F.Y., Kattge, J., Lambers, H., Liddell, M.J., Lloyd, J., Lusk, C.H., Martin, R.E., Maksimov, A.P., Maximov, T.C., Malhi, Y., Medlyn, B.E., Meir, P., Mercado, L.M., Mirochnick, N., Ng, D., Niinemets, U., O'Sullivan, O.S., Phillips, O.L., Poorter, L., Poot, P., Prentice, I.C., Salinas, N., Rowland, L.M., Ryan, M.G., Sitch, S., Slot, M., Smith, N.G., Turnbull, M.H., VanderWel, M.C., Valladares, F., Veneklaas, E.J., Weerasinghe, L.K., Wirth, C., Wright, I.J., Wythers, K.R., Xiang, J., Xiang, S., Zaragoza-Castells, J., 2015. Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. *New Phytol.* 206, 614–636. <https://doi.org/10.1111/nph.13253>

Auld, T.D., Leishman, M.R., 2015. Ecosystem risk assessment for Gnarled Mossy Cloud Forest, Lord Howe Island, Australia. *Austral Ecology* 40, 364–372. <https://doi.org/10.1111/aec.12202>

Bajocco, S., Guglietta, D., Ricotta, C., 2015. Modelling fire occurrence at regional scale: does vegetation phenology matter? *EUROPEAN JOURNAL OF REMOTE SENSING* 48, 763–775. <https://doi.org/10.5721/EuJRS20154842>

Baldocchi, D., Sturtevant, C., 2015. Does day and night sampling reduce spurious correlation between canopy photosynthesis and ecosystem respiration? *Agricultural and Forest Meteorology* 207, 117–126. <https://doi.org/10.1016/j.agrformet.2015.03.010>

Barbi, E., Denham, R., Star, M., 2015. Do improved grazing management practices lead to increased levels of ground cover? *Rural Extension & Innovation Systems Journal* 11, 114–121.

Barraza, V., Restrepo-Coupe, N., Huete, A., Grings, F., Van Gorsel, E., 2015. Passive microwave and optical index approaches for estimating surface conductance and evapotranspiration in forest ecosystems. *Agric. For. Meteorol.* 213, 126–137. <https://doi.org/10.1016/j.agrformet.2015.06.020>

Barrett, S., Yates, C.J., 2015. Risks to a mountain summit ecosystem with endemic biota in southwestern Australia. *Austral Ecology* 40, 423–432. <https://doi.org/10.1111/aec.12199>

Barton, P.S., Lentini, P.E., Alacs, E., Bau, S., Buckley, Y.M., Burns, E.L., Driscoll, D.A., Guja, L.K., Kujala, H., Lahoz-Monfort, J.J., Mortelliti, A., Nathan, R., Rowe, R., Smith, A.L., 2015. Guidelines for Using Movement Science to Inform Biodiversity Policy. *ENVIRONMENTAL MANAGEMENT* 56, 791–801. <https://doi.org/10.1007/s00267-015-0570-5>

Beggs, P.J., Katalaris, C.H., Medek, D., Johnston, F.H., Burton, P.K., Campbell, B., Jaggard, A.K., Vicendese, D., Bowman, D.M.J.S., Godwin, I., Huete, A.R., Erbas, B., Green, B.J., Newnham, R.M., Newbigin, E., Haberle, S.G., Davies, J.M., 2015. Differences in grass pollen allergen exposure across Australia. *AUSTRALIAN AND NEW ZEALAND JOURNAL OF PUBLIC HEALTH* 39, 51–55. <https://doi.org/10.1111/1753-6405.12325>

Bennett, J.M., Clarke, R.H., Horrocks, G.F.B., Thomson, J.R., Mac Nally, R., 2015. Climate drying amplifies the effects of land-use change and interspecific interactions on birds. *LANDSCAPE ECOLOGY* 30, 2031–2043. <https://doi.org/10.1007/s10980-015-0229-x>

Beringer, J., Hutley, L.B., Abramson, D., Arndt, S.K., Briggs, P., Bristow, M., Canadell, J.G., Cernusak, L.A., Eamus, D., Edwards, A.C., Evans, B.J., Fest, B., Goergen, K., Grover, S.P., Hacker, J., Haverd, V., Kanniah, K., Livesley, S.J., Lynch, A., Maier, S., Moore, C., Raupach, M., Russell-Smith, J., Scheiter, S., Tapper, N.J., Uotila, P., 2015. Fire in Australian savannas: from leaf to landscape. *Global Change Biology* 21, 62–81. <https://doi.org/10.1111/gcb.12686>

Berry, Laurence E., Driscoll, D.A., Stein, J.A., Blanchard, W., Banks, S.C., Bradstock, R.A., Lindenmayer, D.B., 2015. Identifying the location of fire refuges in wet forest ecosystems. *ECOLOGICAL APPLICATIONS* 25, 2337–2348. <https://doi.org/10.1890/14-1699.1.sm>

Berry, L. E., Driscoll, D.A., Stein, J.A., Blanchard, W., Banks, S.C., Bradstock, R.A., Lindenmayer, D.B., 2015. Identifying the location of fire refuges in wet forest ecosystems. *Ecological Applications* 25, 2337–2348. <https://doi.org/10.1890/14-1699.1>

Best, M.J., Abramowitz, G., Johnson, H.R., Pitman, A.J., Balsamo, G., Boone, A., Cuntz, M., Decharme, B., Dirmeyer, P.A., Dong, J., Ek, M., Guo, Z., Haverd, V., Van den Hurk, B.J.J., Nearing, G.S., Pak, B., Peters-Lidard, C., Santanello, J.A., Jr., Stevens, L., Vuichard, N., 2015. The Plumbing of Land Surface Models: Benchmarking Model Performance. *JOURNAL OF HYDROMETEOROLOGY* 16, 1425–1442. <https://doi.org/10.1175/JHM-D-14-0158.1>

Broich, M., Huete, A., Paget, M., Ma, X., Tulbure, M., Coupe, N.R., Evans, B., Beringer, J., Devadas, R., Davies, K., Held, A., 2015. A spatially explicit land surface phenology data product for science, monitoring and natural resources management applications. *Environmental Modelling & Software* 64, 191–204. <https://doi.org/10.1016/j.envsoft.2014.11.017>

Burns, E.L., Lindenmayer, D.B., 2015. Need for new management policies for the mountain ash forest ecosystem of central Victoria. *Geodate* 28, 4–8.

Burns, E.L., Lindenmayer, D.B., Stein, J., Blanchard, W., McBurney, L., Blair, D., Banks, S.C., 2015. Ecosystem assessment of mountain ash forest in the Central Highlands of Victoria, south-eastern Australia. *Austral Ecology* 40, 386–399. <https://doi.org/10.1111/aec.12200>

Calders, K., Newnham, G., Burt, A., Murphy, S., Raunonen, P., Herold, M., Culvenor, D., Avitabile, V., Disney, M., Armston, J., Kaasalainen, M., 2015. Nondestructive estimates of above-ground biomass using terrestrial laser scanning. *METHODS IN ECOLOGY AND EVOLUTION* 6, 198–208. <https://doi.org/10.1111/2041-210X.12301>

Camac, J.S., Williams, R.J., Wahren, C.-H., Jarrad, F., Hoffmann, A.A., Veski, P.A., 2015. Modeling rates of life form cover change in burned and unburned alpine heathland subject to experimental warming. *OECOLOGIA* 178, 615–628. <https://doi.org/10.1007/s00442-015-3261-2>

Campbell, C.A., Lefroy, E.C., Caddy-Retalic, S., Bax, N., Doherty, P.J., Douglas, M.M., Johnson, D., Possingham, H.P., Specht, A., Tarte, D., West, J., 2015. Designing environmental research for impact. *Science of The Total Environment* 534, 4–13. <https://doi.org/10.1016/j.scitotenv.2014.11.089>

Campbell, H.A., Beyer, H.L., Dennis, T.E., Dwyer, R.G., Forester, J.D., Fukuda, Y., Lynch, C., Hindell, M.A., Menke, N., Morales, J.M., Richardson, C., Rodgers, E., Taylor, G., Watts, M.E., Westcott, D.A., 2015. Finding our way: On the sharing and reuse of animal telemetry data in Australasia. *SCIENCE OF THE TOTAL ENVIRONMENT* 534, 79–84. <https://doi.org/10.1016/j.scitotenv.2015.01.089>

Campioli, M., Vicca, S., Luyssaert, S., Bilcke, J., Ceschia, E., Chapin, F.S., III, Ciais, P., Fernandez-Martinez, M., Malhi, Y., Obersteiner, M., Olefeldt, D., Papale, D., Piao, S.L., Penuelas, J., Sullivan, P.F., Wang, X., Zenone, T., Janssens, I.A., 2015. Biomass production efficiency controlled by management in temperate and boreal ecosystems. *NATURE GEOSCIENCE* 8, 843+. <https://doi.org/10.1038/NGEO2553>

Capon, S.J., Lynch, A.J.J., Bond, N., Chessman, B.C., Davis, J., Davidson, N., Finlayson, M., Gell, P.A., Hohnberg, D., Humphrey, C., Kingsford, R.T., Nielsen, D., Thomson, J.R., Ward, K., Mac Nally, R., 2015. Regime shifts, thresholds and multiple stable states in freshwater ecosystems; a critical appraisal of the evidence. *SCIENCE OF THE TOTAL ENVIRONMENT* 534, 122–130. <https://doi.org/10.1016/j.scitotenv.2015.02.045>

Chianucci, F., Macfarlane, C., Pisek, J., Cutini, A., Casa, R., 2015. Estimation of foliage clumping from the LAI-2000 Plant Canopy Analyzer: effect of view caps. *TREES-STRUCTURE AND FUNCTION* 29, 355–366. <https://doi.org/10.1007/s00468-014-1115-x>

Chick, M.P., Cohn, J.S., Nitschke, C.R., York, A., 2015. Lack of soil seedbank change with time since fire: relevance to seed supply after prescribed burns. *INTERNATIONAL JOURNAL OF WILDLAND FIRE* 25, 849–860. <https://doi.org/10.1071/WF15013>

Christmas, M.J., Biffin, E., Lowe, A.J., 2015. Transcriptome sequencing, annotation and polymorphism detection in the hop bush, *Dodonaea viscosa*. *BMC Genomics* 16, 803. <https://doi.org/10.1186/s12864-015-1987-1>

Clarke, P.J., Keith, D.A., Vincent, B.E., Letten, A.D., 2015a. Post-grazing and post-fire vegetation dynamics: long-term changes in mountain bogs reveal community resilience. *JOURNAL OF VEGETATION SCIENCE* 26, 278–290. <https://doi.org/10.1111/jvs.12239>

Clarke, P.J., Lawes, M.J., Murphy, B.P., Russell-Smith, J., Nano, C.E.M., Bradstock, R., Enright, N.J., Fontaine, J.B., Gosper, C.R., Radford, I., Midgley, J.J., Gunton, R.M., 2015b. A synthesis of postfire recovery traits of woody plants in Australian ecosystems. *Science of The Total Environment* 534, 31–42. <https://doi.org/10.1016/j.scitotenv.2015.04.002>

Cleverly, J., Thibault, J.R., Teet, S.B., Tashjian, P., Hipps, L.E., Dahm, C.N., Eamus, D., 2015. Flooding Regime Impacts on Radiation, Evapotranspiration, and Latent Energy Fluxes over Groundwater-Dependent Riparian Cottonwood and Saltcedar Forests. *ADVANCES IN METEOROLOGY*. <https://doi.org/10.1155/2015/935060>

Cook, G.D., Liedloff, A.C., Cuff, N.J., Brocklehurst, P.S., Williams, R.J., 2015. Stocks and dynamics of carbon in trees across a rainfall gradient in a tropical savanna. *Austral Ecology* 40, 845–856. <https://doi.org/10.1111/aec.12262>

Costion, C.M., Edwards, W., Ford, A.J., Metcalfe, D.J., Cross, H.B., Harrington, M.G., Richardson, J.E., Hilbert, D.W., Lowe, A.J., Crayn, D.M., Wilson, K., 2015. Using phylogenetic diversity to identify ancient rain forest refugia and diversification zones in a biodiversity hotspot. *Diversity and Distributions* 21, 279–289. <https://doi.org/10.1111/ddi.12266>

Crook, D.A., Lowe, W.H., Allendorf, F.W., Eros, T., Finn, D.S., Gillanders, B.M., Hadweng, W.L., Harrod, C., Hermoso, V., Jennings, S., Kilada, R.W., Nagelkerken, I., Hansen, M.M., Page, T.J., Riginos, C., Fry, B., Hughes, J.M., 2015. Human effects on ecological connectivity in aquatic ecosystems: Integrating scientific approaches to

support management and mitigation. SCIENCE OF THE TOTAL ENVIRONMENT 534, 52–64.  
<https://doi.org/10.1016/j.scitotenv.2015.04.034>

Crowston, K., Specht, A., Hoover, C., Chudoba, K.M., Watson-Manheim, M.B., 2015. Perceived discontinuities and continuities in transdisciplinary scientific working groups. SCIENCE OF THE TOTAL ENVIRONMENT 534, 159–172. <https://doi.org/10.1016/j.scitotenv.2015.04.121>

Cunningham, Shaun C., Cavagnaro, T.R., Mac Nally, R., Paul, K.I., Baker, P.J., Beringer, J., Thomson, J.R., Thompson, R.M., 2015. Reforestation with native mixed-species plantings in a temperate continental climate effectively sequesters and stabilizes carbon within decades. GLOBAL CHANGE BIOLOGY 21, 1552–1566.  
<https://doi.org/10.1111/gcb.12746>

Cunningham, S. C., Mac Nally, R., Baker, P.J., Cavagnaro, T.R., Beringer, J., Thomson, J.R., Thompson, R.M., 2015. Balancing the environmental benefits of reforestation in agricultural regions. PERSPECTIVES IN PLANT ECOLOGY EVOLUTION AND SYSTEMATICS 17, 301–317. <https://doi.org/10.1016/j.pees.2015.06.001>

Davies, J.M., Beggs, P.J., Medek, D.E., Newnham, R.M., Erbas, B., Thibaudon, M., Katelaris, C.H., Haberle, S.G., Newbigin, E.J., Huete, A.R., 2015. Trans-disciplinary research in synthesis of grass pollen aerobiology and its importance for respiratory health in Australasia. SCIENCE OF THE TOTAL ENVIRONMENT 534, 85–96.  
<https://doi.org/10.1016/j.scitotenv.2015.04.001>

Davis, J., O’Grady, A.P., Dale, A., Arthington, A.H., Gell, P.A., Driver, P.D., Bond, N., Casanova, M., Finlayson, M., Watts, R.J., Capon, S.J., Nagelkerken, I., Tingley, R., Fry, B., Page, T.J., Specht, A., 2015. When trends intersect: The challenge of protecting freshwater ecosystems under multiple land use and hydrological intensification scenarios. SCIENCE OF THE TOTAL ENVIRONMENT 534, 65–78. <https://doi.org/10.1016/j.scitotenv.2015.03.127>

de Dios, V.R., Fellows, A.W., Nolan, R.H., Boer, M.M., Bradstock, R.A., Domingo, F., Goulden, M.L., 2015. A semi-mechanistic model for predicting the moisture content of fine litter. Agric. For. Meteorol. 203, 64–73.

De Kauwe, M.G., Kala, J., Lin, Y.S., Pitman, A.J., Medlyn, B.E., Duursma, R.A., Abramowitz, G., Wang, Y.P., Miralles, D.G., 2015a. A test of an optimal stomatal conductance scheme within the CABLE land surface model. GEOSCIENTIFIC MODEL DEVELOPMENT 8, 431–452. <https://doi.org/10.5194/gmd-8-431-2015>

De Kauwe, M.G., Zhou, S.X., Medlyn, B.E., Pitman, A.J., Wang, Y.P., Duursma, R.A., Prentice, I.C., 2015b. Do land surface models need to include differential plant species responses to drought? Examining model predictions across a mesic-xeric gradient in Europe. Biogeosciences 12, 7503–7518.

Dickman, C.R., Newsome, T.M., 2015. Individual hunting behaviour and prey specialisation in the house cat *Felis catus*: Implications for conservation and management. APPLIED ANIMAL BEHAVIOUR SCIENCE 173, 76–87.  
<https://doi.org/10.1016/j.applanim.2014.09.021>

Dybinski, R., Farrior, C.E., Pacala, S.W., 2015. Increased forest carbon storage with increased atmospheric CO<sub>2</sub> despite nitrogen limitation: a game-theoretic allocation model for trees in competition for nitrogen and light. GLOBAL CHANGE BIOLOGY 21, 1182–1196. <https://doi.org/10.1111/gcb.12783>

Eamus, D., Cleverly, J., 2015. Australia’s role in the 2011 global carbon sink anomaly. Australasian Science 36, 18–19.

Edwards, A., Russell-Smith, J., Meyer, M., 2015. Contemporary fire regime risks to key ecological assets and processes in north Australian savannas. INTERNATIONAL JOURNAL OF WILDLAND FIRE 24, 857–870.  
<https://doi.org/10.1071/WF14197>

Endo, Y., Nash, M., Hoffmann, A.A., Slatyer, R., Miller, A.D., 2015. Comparative phylogeography of alpine invertebrates indicates deep lineage diversification and historical refugia in the Australian Alps. *JOURNAL OF BIOGEOGRAPHY* 42, 89–102. <https://doi.org/10.1111/jbi.12387>

English, V., Keith, D.A., 2015. Assessing risks to ecosystems within biodiversity hotspots: a case study from southwestern Australia. *Austral Ecology* 40, 411–422. <https://doi.org/10.1111/aec.12177>

Ens, E.J., Pert, P., Clarke, P.A., Budden, M., Clubb, L., Doran, B., Douras, C., Gaikwad, J., Gott, B., Leonard, S., Locke, J., Packer, J., Turpin, G., Wason, S., 2015. Indigenous biocultural knowledge in ecosystem science and management: Review and insight from Australia. *BIOLOGICAL CONSERVATION* 181, 133–149. <https://doi.org/10.1016/j.biocon.2014.11.008>

Ershadi, A., McCabe, M.F., Evans, J.P., Wood, E.F., 2015. Impact of model structure and parameterization on Penman-Monteith type evaporation models. *JOURNAL OF HYDROLOGY* 525, 521–535. <https://doi.org/10.1016/j.jhydrol.2015.04.008>

Evans, M.C., Tulloch, A.I.T., Law, E.A., Raiter, K.G., Possingham, H.P., Wilson, K.A., 2015. Clear consideration of costs, condition and conservation benefits yields better planning outcomes. *BIOLOGICAL CONSERVATION* 191, 716–727. <https://doi.org/10.1016/j.biocon.2015.08.023>

Fay, P.A., Prober, S.M., Harpole, W.S., Knops, J.M.H., Bakker, J.D., Borer, E.T., Lind, E.M., MacDougall, A.S., Seabloom, E.W., Wragg, P.D., Adler, P.B., Blumenthal, D.M., Buckley, Y., Chu, C.J., Cleland, E.E., Collins, S.L., Davies, K.F., Du, G.Z., Feng, X.H., Firn, J., Gruner, D.S., Hagenah, N., Hautier, Y., Heckman, R.W., Jin, V.L., Kirkman, K.P., Klein, J., Ladwig, L.M., Li, Q., McCulley, R.L., Melbourne, B.A., Mitchell, C.E., Moore, J.L., Morgan, J.W., Risch, A.C., Schutz, M., Stevens, C.J., Wedin, D.A., Yang, L.H., 2015. Grassland productivity limited by multiple nutrients. *Nat. Plants* 1, 5. <https://doi.org/10.1038/nplants.2015.80>

Fest, B., Wardlaw, T., Livesley, S.J., Duff, T.J., Arndt, S.K., 2015. Changes in soil moisture drive soil methane uptake along a fire regeneration chronosequence in a eucalypt forest landscape. *Global Change Biology* 21, 4250–4264. <https://doi.org/10.1111/gcb.13003>

Fest, B.J., Livesley, S.J., von Fischer, J.C., Arndt, S.K., 2015. Repeated fuel reduction burns have little long-term impact on soil greenhouse gas exchange in a dry sclerophyll eucalypt forest. *Agric. For. Meteorol.* 201, 17–25. <https://doi.org/10.1016/j.agrformet.2014.11.006>

Fonte, C.C., Bastin, L., See, L., Foody, G., Lupia, F., 2015. Usability of VGI for validation of land cover maps. *INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SCIENCE* 29, 1269–1291. <https://doi.org/10.1080/13658816.2015.1018266>

Ford, A.J., Halford, D.A., 2015. *Aidia gyropetala* AJFord & Halford (Rubiaceae), a new and dioecious species from north-east Queensland. *TELOPEA* 18, 13–18. <https://doi.org/10.7751/telopea7935>

Foster, Claire N., Barton, P.S., Sato, C.F., MacGregor, C.I., Lindenmayer, D.B., 2015. Synergistic interactions between fire and browsing drive plant diversity in a forest understorey. *JOURNAL OF VEGETATION SCIENCE* 26, 1112–1123. <https://doi.org/10.1111/jvs.12311>

Foster, C. N., Barton, P.S., Wood, J.T., Lindenmayer, D.B., 2015. Interactive effects of fire and large herbivores on web-building spiders. *OECOLOGIA* 179, 237–248. <https://doi.org/10.1007/s00442-015-3323-5>

Fountain-Jones, N.M., Jordan, G.J., Baker, T.P., Balmer, J.M., Wardlaw, T., Baker, S.C., 2015. Living near the edge: Being close to mature forest increases the rate of succession in beetle communities. *Ecol. Appl.* 25, 800–811. <https://doi.org/10.1890/14-0334.1>

Gibson, R.K., Bradstock, R.A., Penman, T., Keith, D.A., Driscoll, D.A., 2015. Climatic, vegetation and edaphic influences on the probability of fire across mediterranean woodlands of south-eastern Australia. *JOURNAL OF BIOGEOGRAPHY* 42, 1750–1760. <https://doi.org/10.1111/jbi.12547>

Gong, Z., Kawamura, K., Ishikawa, N., Goto, M., Wulan, T., Alateng, D., Yin, T., Ito, Y., 2015. MODIS normalized difference vegetation index (NDVI) and vegetation phenology dynamics in the Inner Mongolia grassland. *SOLID EARTH* 6, 1185–1194. <https://doi.org/10.5194/se-6-1185-2015>

Goodrich, J.P., Campbell, D.I., Clearwater, M.J., Rutledge, S., Schipper, L.A., 2015a. High vapor pressure deficit constrains GPP and the light response of NEE at a Southern Hemisphere bog. *Agricultural and Forest Meteorology* 203, 54–63. <https://doi.org/10.1016/j.agrformet.2015.01.001>

Goodrich, J.P., Campbell, D.I., Roulet, N.T., Clearwater, M.J., Schipper, L.A., 2015b. Overriding control of methane flux temporal variability by water table dynamics in a Southern Hemisphere, raised bog. *Journal of Geophysical Research G: Biogeosciences* 120, 819–831. <https://doi.org/10.1002/2014jg002844>

Gosper, C.R., Pettit, M.J., Andersen, A.N., Yates, C.J., Prober, S.M., 2015a. Multi-century dynamics of ant communities following fire in Mediterranean-climate woodlands: Are changes congruent with vegetation succession? *FOREST ECOLOGY AND MANAGEMENT* 342, 30–38. <https://doi.org/10.1016/j.foreco.2015.01.006>

Gosper, C.R., Prober, S.M., Yates, C.J., Scott, J.K., 2015b. Combining asset- and species-led alien plant management priorities in the world's most intact Mediterranean-climate landscape. *BIODIVERSITY AND CONSERVATION* 24, 2789–2807. <https://doi.org/10.1007/s10531-015-0973-x>

Griebel, A., Bennett, L.T., Culvenor, D.S., Newnham, G.J., Arndt, S.K., 2015. Reliability and limitations of a novel terrestrial laser scanner for daily monitoring of forest canopy dynamics. *Remote Sensing of Environment* 166, 205–213. <https://doi.org/10.1016/j.rse.2015.06.014>

Grundy, M.J., Rossel, R.A.V., Searle, R.D., Wilson, P.L., Chen, C., Gregory, L.J., 2015. Soil and Landscape Grid of Australia. *Soil Res.* 53, 835–844. <https://doi.org/10.1071/sr15191>

Guerin, G.R., Lowe, A.J., 2015a. Mapping phylogenetic endemism in R using georeferenced branch extents. *SoftwareX* 3–4, 22–26. <https://doi.org/10.1016/j.softx.2015.10.002>

Guerin, G.R., Lowe, A.J., 2015b. “Sum of inverse range-sizes” (SIR), a biodiversity metric with many names and interpretations. *Biodiversity and Conservation* 24, 2877–2882. <https://doi.org/10.1007/s10531-015-0977-6>

Guerin, G.R., Ruokolainen, L., Lowe, A.J., Isaac, N., 2015. A georeferenced implementation of weighted endemism. *Methods in Ecology and Evolution* 6, 845–852. <https://doi.org/10.1111/2041-210X.12361>

Guerschman, J.P., Scarth, P.F., McVicar, T.R., Renzullo, L.J., Malthus, T.J., Stewart, J.B., Rickards, J.E., Trevithick, R., 2015. Assessing the effects of site heterogeneity and soil properties when unmixing photosynthetic vegetation, non-photosynthetic vegetation and bare soil fractions from Landsat and MODIS data. *REMOTE SENSING OF ENVIRONMENT* 161, 12–26. <https://doi.org/10.1016/j.rse.2015.01.021>

Hall, J., Doyle, R., McBratney, A., 2015. Traditional and digital views of soil in the landscape. *Interaction* 43, 43–45.

Haverd, V., Raupach, M.R., Briggs, P.R., Canadell, J.G., Davis, S.J., Law, R.M., Meyer, C.P., Peters, G.P., Pickett-Heaps, C., Sherman, B., 2015. The Australian Terrestrial Carbon Budget (vol 10, pg 851, 2013). *Biogeosciences* 12, 3603–3605.

Hewson, R., Robson, D., Mauger, A., Cudahy, T., Thomas, M., Jones, S., 2015. Using the Geoscience Australia-CSIRO ASTER maps and airborne geophysics to explore Australian geoscience. JOURNAL OF SPATIAL SCIENCE 60, 207–231. <https://doi.org/10.1080/14498596.2015.979891>

Hicks, W., Rossel, R.A.V., Tuomi, S., 2015. Developing the Australian mid-infrared spectroscopic database using data from the Australian Soil Resource Information System. SOIL RESEARCH 53, 922–931. <https://doi.org/10.1071/SR15171>

Hill, K.E., Guerin, G.R., Hill, R.S., Watling, J.R., 2015. Temperature influences stomatal density and maximum potential water loss through stomata of *Dodonaea viscosa* subsp. *angustissima* along a latitude gradient in southern Australia. Australian Journal of Botany 62, 657–665. <https://doi.org/10.1071/BT14204>

Hinko-Najera, N., Fest, B., Livesley, S.J., Arndt, S.K., 2015. Reduced throughfall decreases autotrophic respiration, but not heterotrophic respiration in a dry temperate broadleaved evergreen forest. Agricultural and Forest Meteorology 200, 66–77. <https://doi.org/10.1016/j.agrformet.2014.09.013>

Hobley, E., Wilson, B., Wilkie, A., Gray, J., Koen, T., 2015. Drivers of soil organic carbon storage and vertical distribution in Eastern Australia. PLANT AND SOIL 390, 111–127. <https://doi.org/10.1007/s11104-015-2380-1>

Houborg, R., McCabe, M.F., Cescatti, A., Gitelson, A.A., 2015. Leaf chlorophyll constraint on model simulated gross primary productivity in agricultural systems. INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION 43, 160–176. <https://doi.org/10.1016/j.jag.2015.03.016>

Jarihani, A.A., Larsen, J.R., Callow, J.N., McVicar, T.R., Johansen, K., 2015. Where does all the water go? Partitioning water transmission losses in a data-sparse, multi-channel and low-gradient dryland river system using modelling and remote sensing. JOURNAL OF HYDROLOGY 529, 1511–1529. <https://doi.org/10.1016/j.jhydrol.2015.08.030>

Jiang, B., Zhang, Y., Liang, S., Wohlfahrt, G., Arain, A., Cescatti, A., Georgiadis, T., Jia, K., Kiely, G., Lund, M., Montagnani, L., Magliulo, V., Serrano Ortiz, P., Oechel, W., Vaccari, F.P., Yao, Y., Zhang, X., 2015. Empirical estimation of daytime net radiation from shortwave radiation and ancillary information. AGRICULTURAL AND FOREST METEOROLOGY 211, 23–36. <https://doi.org/10.1016/j.agrformet.2015.05.003>

Keith, D.A., 2015. Assessing and managing risks to ecosystem biodiversity. Austral Ecology 40, 337–346. <https://doi.org/10.1111/aec.12249>

Keith, D.A., Rodriguez, J.P., Brooks, T.M., Burgman, M.A., Barrow, E.G., Bland, L., Comer, P.J., Franklin, J., Link, J., McCarthy, M.A., Miller, R.M., Murray, N.J., Nel, J., Nicholson, E., Oliveira-Miranda, M.A., Regan, T.J., Rodriguez-Clark, K.M., Rouget, M., Spalding, M.D., 2015. The IUCN Red List of Ecosystems: Motivations, Challenges, and Applications. CONSERVATION LETTERS 8, 214–226. <https://doi.org/10.1111/conl.12167>

Kidd, Darren, Webb, M., Malone, B., Minasny, B., McBratney, A., 2015. Eighty-metre resolution 3D soil-attribute maps for Tasmania, Australia. SOIL RESEARCH 53, 932–955. <https://doi.org/10.1071/SR14268>

Kidd, D., Webb, M., Malone, B., Minasny, B., McBratney, A., 2015. Digital soil assessment of agricultural suitability, versatility and capital in Tasmania, Australia. Geoderma Regional 6, 7–21. <https://doi.org/10.1016/j.geodrs.2015.08.005>

Kilminster, K., McMahon, K., Waycott, M., Kendrick, G.A., Scanes, P., McKenzie, L., O'Brien, K.R., Lyons, M., Ferguson, A., Maxwell, P., Glasby, T., Udy, J., 2015. Unravelling complexity in seagrass systems for management: Australia as a microcosm. SCIENCE OF THE TOTAL ENVIRONMENT 534, 97–109. <https://doi.org/10.1016/j.scitotenv.2015.04.061>

Kirschbaum, M.U.F., Rutledge, S., Kuijper, I.A., Mudge, P.L., Puche, N., Wall, A.M., Roach, C.G., Schipper, L.A., Campbell, D.I., 2015. Modelling carbon and water exchange of a grazed pasture in New Zealand constrained by eddy covariance measurements. *Sci. Total Environ.* 512, 273–286.

<https://doi.org/10.1016/j.scitotenv.2015.01.045>

Kondo, M., Ichii, K., Takagi, H., Sasakawa, M., 2015. Comparison of the data-driven top-down and bottom-up global terrestrial CO<sub>2</sub> exchanges: GOSAT CO<sub>2</sub> inversion and empirical eddy flux upscaling. *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES* 120, 1226–1245. <https://doi.org/10.1002/2014JG002866>

Kutsch, W.L., Kolari, P., 2015. Data quality and the role of nutrients in forest carbon-use efficiency. *NATURE CLIMATE CHANGE* 5, 959–960. <https://doi.org/10.1038/nclimate2793>

Laity, T., Laffan, S.W., Gonzalez-Orozco, C.E., Faith, D.P., Rosauer, D.F., Byrne, M., Miller, J.T., Crayn, D., Costion, C., Moritz, C.C., Newport, K., 2015. Phylodiversity to inform conservation policy: An Australian example. *SCIENCE OF THE TOTAL ENVIRONMENT* 534, 131–143. <https://doi.org/10.1016/j.scitotenv.2015.04.113>

Lawes, M.J., Fisher, D.O., Johnson, C.N., Blomberg, S.P., Frank, A.S.K., Fritz, S.A., McCallum, H., VanDerWal, J., Abbott, B.N., Legge, S., Letnic, M., Thomas, C.R., Thurgate, N., Fisher, A., Gordon, I.J., Kutt, A., 2015a. Correlates of Recent Declines of Rodents in Northern and Southern Australia: Habitat Structure Is Critical. *PLOS ONE* 10. <https://doi.org/10.1371/journal.pone.0130626>

Lawes, M.J., Murphy, B.P., Fisher, A., Woinarski, J.C.Z., Edwards, A.C., Russell-Smith, J., 2015b. Small mammals decline with increasing fire extent in northern Australia: evidence from long-term monitoring in Kakadu National Park. *INTERNATIONAL JOURNAL OF WILDLAND FIRE* 24, 712–722. <https://doi.org/10.1071/WF14163>

Lawson, J.R., Fryirs, K.A., Lenz, T., Leishman, M.R., 2015. Heterogeneous flows foster heterogeneous assemblages: relationships between functional diversity and hydrological heterogeneity in riparian plant communities. *FRESHWATER BIOLOGY* 60, 2208–2225. <https://doi.org/10.1111/fwb.12649>

Leff, J.W., Jones, S.E., Prober, S.M., Barberan, A., Borer, E.T., Firn, J.L., Harpole, W.S., Hobbie, S.E., Hofmockel, K.S., Knops, J.M.H., McCulley, R.L., La Pierre, K., Risch, A.C., Seabloom, E.W., Schutz, M., Steenbock, C., Stevens, C.J., Fierer, N., 2015. Consistent responses of soil microbial communities to elevated nutrient inputs in grasslands across the globe. *Proc. Natl. Acad. Sci. U. S. A.* 112, 10967–10972. <https://doi.org/10.1073/pnas.1508382112>

Lehmann, E.A., Caccetta, P., Lowell, K., Mitchell, A., Zhou, Z.S., Held, A., Milne, T., Tapley, I., 2015. SAR and optical remote sensing: Assessment of complementarity and interoperability in the context of a large-scale operational forest monitoring system. *Remote Sens. Environ.* 156, 335–348. <https://doi.org/10.1016/j.rse.2014.09.034>

Letten, A.D., Keith, D.A., Tozer, M.G., Hui, F.K.C., 2015. Fine-scale hydrological niche differentiation through the lens of multi-species co-occurrence models. *JOURNAL OF ECOLOGY* 103, 1264–1275. <https://doi.org/10.1111/1365-2745.12428>

Lin, Y.-S., Medlyn, B.E., Duursma, R.A., Prentice, I.C., Wang, H., Baig, S., Eamus, D., de Dios, V.R., Mitchell, P., Ellsworth, D.S., de Beeck, M.O., Wallin, G., Uddling, J., Tarvainen, L., Linderson, M.-L., Cernusak, L.A., Nippert, J.B., Ocheltree, T.W., Tissue, D.T., Martin-StPaul, N.K., Rogers, A., Warren, J.M., De Angelis, P., Hikosaka, K., Han, Q., Onoda, Y., Gimeno, T.E., Barton, C.V.M., Bennie, J., Bonal, D., Bosc, A., Low, M., Macinins-Ng, C., Rey, A., Rowland, L., Setterfield, S.A., Tausz-Pesch, S., Zaragoza-Castells, J., Broadmeadow, M.S.J., Drake, J.E., Freeman, M., Ghannoum, O., Hutley, L.B., Kelly, J.W., Kikuzawa, K., Kolari, P., Koyama, K., Limousin, J.-M., Meir, P., Lola da Costa, A.C., Mikkelsen, T.N., Salinas, N., Sun, W., Wingate, L., 2015. Optimal stomatal behaviour around the world. *Nature Clim. Change* 5, 459–464. <https://doi.org/10.1038/nclimate2550>

Lindenmayer, D., Blanchard, W., Tennant, P., Barton, P., Ikin, K., Mortelliti, A., Okada, S., Crane, M., Michael, D., 2015. Richness is not all: how changes in avian functional diversity reflect major landscape modification caused by pine plantations. *DIVERSITY AND DISTRIBUTIONS* 21, 836–847. <https://doi.org/10.1111/ddi.12328>

Lindenmayer, D. B., Blair, D., McBurney, L., Banks, S.C., 2015. Ignoring the science in failing to conserve a faunal icon - Major political, policy and management problems in preventing the extinction of Leadbeater's possum. *Pacific Conservation Biology* 21, 257–265. <https://doi.org/10.1071/PC15022>

Lindenmayer, David B., Burns, E.L., Tennant, P., Dickman, C.R., Green, P.T., Keith, D.A., Metcalfe, D.J., Russell-Smith, J., Wardle, G.M., Williams, D., Bossard, K., deLacey, C., Hanigan, I., Bull, C.M., Gillespie, G., Hobbs, R.J., Krebs, C.J., Likens, G.E., Porter, J., Vardon, M., 2015a. Contemplating the future: Acting now on long-term monitoring to answer 2050's questions. *AUSTRAL ECOLOGY* 40, 213–224. <https://doi.org/10.1111/aec.12207>

Lindenmayer, David B., Welsh, A., Blanchard, W., Tennant, P., Donnelly, C., 2015b. Exploring co-occurrence of closely-related guild members in a fragmented landscape subject to rapid transformation. *ECOGRAPHY* 38, 251–260. <https://doi.org/10.1111/ecog.00939>

Lindenmayer, David B., Wood, J., MacGregor, C., Buckley, Y.M., Dexter, N., Fortescue, M., Hobbs, R.J., Catford, J.A., 2015c. A Long-Term Experimental Case Study of the Ecological Effectiveness and Cost Effectiveness of Invasive Plant Management in Achieving Conservation Goals: Bitou Bush Control in Booderee National Park in Eastern Australia. *PLOS ONE* 10. <https://doi.org/10.1371/journal.pone.0128482>

Lindenmayer, David B., Wood, J., McBurney, L., Blair, D., Banks, S.C., 2015d. Single large versus several small: The SLOSS debate in the context of bird responses to a variable retention logging experiment. *FOREST ECOLOGY AND MANAGEMENT* 339, 1–10. <https://doi.org/10.1016/j.foreco.2014.11.027>

Liu, M., Wu, J., Zhu, X., He, H., Jia, W., Xiang, W., 2015. Evolution and variation of atmospheric carbon dioxide concentration over terrestrial ecosystems as derived from eddy covariance measurements. *ATMOSPHERIC ENVIRONMENT* 114, 75–82. <https://doi.org/10.1016/j.atmosenv.2015.05.026>

Lynch, A.J.J., Thackway, R., Specht, A., Beggs, P.J., Brisbane, S., Burns, E.L., Byrne, M., Capon, S.J., Casanova, M.T., Clarke, P.A., Davies, J.M., Dovers, S., Dwyer, R.G., Ens, E., Fisher, D.O., Flanigan, M., Garnier, E., Guru, S.M., Kilminster, K., Locke, J., Mac Nally, R., McMahon, K.M., Mitchell, P.J., Pierson, J.C., Rodgers, E.M., Russell-Smith, J., Udy, J., Waycott, M., 2015. Transdisciplinary synthesis for ecosystem science, policy and management: The Australian experience. *SCIENCE OF THE TOTAL ENVIRONMENT* 534, 173–184.  
<https://doi.org/10.1016/j.scitotenv.2015.04.100>

Ma, X., Huete, A., Moran, S., Ponce-Campos, G., Eamus, D., 2015. Abrupt shifts in phenology and vegetation productivity under climate extremes. *Journal of Geophysical Research: Biogeosciences* 120, 2036–2052. <https://doi.org/10.1002/2015JG003144>

MacGregor, C.I., Cunningham, R.B., Lindenmayer, D.B., 2015. Nest-site selection of the long-nosed bandicoot (*Perameles nasuta*) in a postfire environment. *AUSTRALIAN JOURNAL OF ZOOLOGY* 63, 324–330. <https://doi.org/10.1071/ZO15039>

Magierowski, R.H., Read, S.M., Carter, S.J.B., Warfe, D.M., Cook, L.S., Lefroy, E.C., Davies, P.E., 2015. Inferring Landscape-Scale Land-Use Impacts on Rivers Using Data from Mesocosm Experiments and Artificial Neural Networks. *PLOS ONE* 10. <https://doi.org/10.1371/journal.pone.0120901>

McAlpine, C., Lunney, D., Melzer, A., Menkhorst, P., Phillips, S., Phalen, D., Ellis, W., Foley, W., Baxter, G., de Villiers, D., Kavanagh, R., Adams-Hosking, C., Todd, C., Whisson, D., Molsher, R., Walter, M., Lawler, I., Close, R., 2015. Conserving koalas: A review of the contrasting regional trends, outlooks and policy challenges. *BIOLOGICAL CONSERVATION* 192, 226–236. <https://doi.org/10.1016/j.biocon.2015.09.020>

McNally, S.R., Laughlin, D.C., Rutledge, S., Dodd, M.B., Six, J., Schipper, L.A., 2015. Root carbon inputs under moderately diverse sward and conventional ryegrass-clover pasture: implications for soil carbon sequestration. *Plant Soil* 392, 289–299. <https://doi.org/10.1007/s11104-015-2463-z>

Metcalfe, D.J., Lawson, T.J., 2015. An International Union for Conservation of Nature risk assessment of coastal lowland rainforests of the Wet Tropics Bioregion, Queensland, Australia. *Austral Ecology* 40, 373–385. <https://doi.org/10.1111/aec.12263>

Meyer, W.S., Kondrlovà, E., Koerber, G.R., 2015. Evaporation of perennial semi-arid woodland in southeastern Australia is adapted for irregular but common dry periods. *Hydrological Processes* 29, 3714–3726. <https://doi.org/10.1002/hyp.10467>

Michael, D.R., Kay, G.M., Crane, M., Florance, D., MacGregor, C., Okada, S., McBurney, L., Blair, D., Lindenmayer, D.B., 2015. Ecological niche breadth and microhabitat guild structure in temperate Australian reptiles: Implications for natural resource management in endangered grassy woodland ecosystems. *AUSTRAL ECOLOGY* 40, 651–660. <https://doi.org/10.1111/aec.12232>

Michener, W.K., 2015. Ecological data sharing. *ECOLOGICAL INFORMATICS* 29, 33–44. <https://doi.org/10.1016/j.ecoinf.2015.06.010>

Mitchell, P.J., O'Grady, A.P., 2015. Adaptation of Leaf Water Relations to Climatic and Habitat Water Availability. *FORESTS* 6, 2281–2295. <https://doi.org/10.3390/f6072281>

Mortelliti, Alessio, Crane, M., Okada, S., Lindenmayer, D.B., 2015. Marsupial response to matrix conversion: Results of a large-scale long-term ‘natural experiment’ in Australia. *BIOLOGICAL CONSERVATION* 191, 60–66. <https://doi.org/10.1016/j.biocon.2015.06.015>

Mortelliti, A., Lindenmayer, D.B., 2015. Effects of landscape transformation on bird colonization and extinction patterns in a large-scale, long-term natural experiment. *CONSERVATION BIOLOGY* 29, 1314–1326. <https://doi.org/10.1111/cobi.12523>

Mortelliti, A., Michael, D.R., Lindenmayer, D.B., 2015a. Contrasting effects of pine plantations on two skinks: results from a large-scale “natural experiment” in Australia. *ANIMAL CONSERVATION* 18, 433–441. <https://doi.org/10.1111/acv.12190>

Mortelliti, A., Westgate, M., Stein, J., Wood, J., Lindenmayer, D.B., 2015b. Ecological and spatial drivers of population synchrony in bird assemblages. *BASIC AND APPLIED ECOLOGY* 16, 269–278. <https://doi.org/10.1016/j.baae.2015.01.008>

Murphy, B.P., Cochrane, M.A., Russell-Smith, J., 2015a. Prescribed burning protects endangered tropical heathlands of the Arnhem Plateau, northern Australia. *JOURNAL OF APPLIED ECOLOGY* 52, 980–991. <https://doi.org/10.1111/1365-2664.12455>

Murphy, B.P., Liedloff, A.C., Cook, G.D., 2015b. Does fire limit tree biomass in Australian savannas? *INTERNATIONAL JOURNAL OF WILDLAND FIRE* 24, 1–13. <https://doi.org/10.1071/WF14092>

Newsome, T.M., Ballard, G.-A., Crowther, M.S., Dellinger, J.A., Fleming, P.J.S., Glen, A.S., Greenville, A.C., Johnson, C.N., Letnic, M., Moseby, K.E., Nimmo, D.G., Nelson, M.P., Read, J.L., Ripple, W.J., Ritchie, E.G., Shores, C.R., Wallach, A.D., Wirsing, A.J., Dickman, C.R., 2015. Resolving the value of the dingo in ecological restoration. *RESTORATION ECOLOGY* 23, 201–208. <https://doi.org/10.1111/rec.12186>

Nguyen, V., Greenville, A.C., Dickman, C.R., Wardle, G.M., 2015. On the validity of visual cover estimates for time series analyses: a case study of hummock grasslands. *Plant Ecol.* 216, 975–988. <https://doi.org/10.1007/s11125-015-0483-7>

Nicholson, E., Regan, T.J., Auld, T.D., Burns, E.L., Chisholm, L.A., English, V., Harris, S., Harrison, P., Kingsford, R.T., Leishman, M.R., Metcalfe, D.J., Pisanu, P., Watson, C.J., White, M., White, M.D., Williams, R.J., Wilson, B., Keith, D.A., 2015. Towards consistency, rigour and compatibility of risk assessments for ecosystems and ecological communities. *Austral Ecology* 40, 347–363. <https://doi.org/10.1111/aec.12148>

Nolf, M., Creek, D., Duursma, R., Holtum, J., Mayr, S., Choat, B., 2015. Stem and leaf hydraulic properties are finely coordinated in three tropical rain forest tree species. *Plant Cell Environ.* 38, 2652–2661. <https://doi.org/10.1111/pce.12581>

Oliveira, S.L.J., Campagnolo, M.L., Price, O.F., Edwards, A.C., Russell-Smith, J., Pereira, J.M.C., 2015. ECOLOGICAL IMPLICATIONS OF FINE-SCALE FIRE PATCHINESS AND SEVERITY IN TROPICAL SAVANNAS OF NORTHERN AUSTRALIA. *FIRE ECOLOGY* 11, 10–31. <https://doi.org/10.4996/fireecology.1101010>

Parida, M., Hoffmann, A.A., Hill, M.P., 2015. Climate change expected to drive habitat loss for two key herbivore species in an alpine environment. *JOURNAL OF BIOGEOGRAPHY* 42, 1210–1221. <https://doi.org/10.1111/jbi.12490>

Park, J., Byun, K., Choi, M., Jang, E., Lee, J., Lee, Y., Jung, S., 2015. Evaluation of statistical gap fillings for continuous energy flux (evapotranspiration) measurements for two different land cover types. *STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT* 29, 2021–2035. <https://doi.org/10.1007/s00477-015-1101-x>

Penman, T.D., Keith, D.A., Elith, J., Mahony, M.J., Tingley, R., Baumgartner, J.B., Regan, T.J., 2015. Interactive effects of climate change and fire on metapopulation viability of a forest-dependent frog in south-eastern Australia. *BIOLOGICAL CONSERVATION* 190, 142–153. <https://doi.org/10.1016/j.biocon.2015.05.020>

Pert, P.L., Ens, E.J., Locke, J., Clarke, P.A., Packer, J.M., Turpin, G., 2015. An online spatial database of Australian Indigenous Biocultural Knowledge for contemporary natural and cultural resource management. *SCIENCE OF THE TOTAL ENVIRONMENT* 534, 110–121. <https://doi.org/10.1016/j.scitotenv.2015.01.073>

Petropoulos, G.P., North, M.R., Ireland, G., Srivastava, P.K., Rendall, D.V., 2015. Quantifying the prediction accuracy of a 1-D SVAT model at a range of ecosystems in the USA and Australia: evidence towards its use as a tool to study Earth's system interactions. *Geosci. Model Dev.* 8, 3257–3284. <https://doi.org/10.5194/gmd-8-3257-2015>

Pierson, J.C., Beissinger, S.R., Bragg, J.G., Coates, D.J., Oostermeijer, J.G.B., Sunnucks, P., Schumaker, N.H., Trotter, M.V., Young, A.G., 2015. Incorporating evolutionary processes into population viability models. *CONSERVATION BIOLOGY* 29, 755–764. <https://doi.org/10.1111/cobi.12431>

Pisanu, P., Kingsford, R.T., Wilson, B., Bonifacio, R., 2015. Status of connected wetlands of the Lake Eyre Basin, Australia. *Austral Ecology* 40, 460–471. <https://doi.org/10.1111/aec.12203>

Pisek, J., Govind, A., Arndt, S.K., Hocking, D., Wardlaw, T.J., Fang, H., Matteucci, G., Longdoz, B., 2015. Intercomparison of clumping index estimates from POLDER, MODIS, and MISR satellite data over reference sites. *ISPRS J. Photogramm. Remote Sens.* 101, 47–56. <https://doi.org/10.1016/j.isprsjprs.2014.11.004>

Prentice, I.C., Liang, X., Medlyn, B.E., Wang, Y.P., 2015. Reliable, robust and realistic: the three R's of next-generation land-surface modelling. *ATMOSPHERIC CHEMISTRY AND PHYSICS* 15, 5987–6005. <https://doi.org/10.5194/acp-15-5987-2015>

Price, O.F., 2015. Potential role of ignition management in reducing unplanned burning in Arnhem Land, Australia. *AUSTRAL ECOLOGY* 40, 857–868. <https://doi.org/10.1111/aec.12264>

Prober, S.M., Bissett, A., Walker, C., Wiehl, G., McIntyre, S., Tibbett, M., 2015. Spatial structuring of arbuscular mycorrhizal communities in benchmark and modified temperate eucalypt woodlands. *MYCORRHIZA* 25, 41–54. <https://doi.org/10.1007/s00572-014-0587-2>

Prober, S.M., Byrne, M., McLean, E.H., Steane, D.A., Potts, B.M., Vaillancourt, R.E., Stock, W.D., 2015. Climate-adjusted provenancing: a strategy for climate-resilient ecological restoration. *Frontiers in Ecology and Evolution* 3, 65. <https://doi.org/10.3389/fevo.2015.00065>

Prober, S. M., Leff, J.W., Bates, S.T., Borer, E.T., Firn, J., Harpole, W.S., Lind, E.M., Seabloom, E.W., Adler, P.B., Bakker, J.D., Cleland, E.E., DeCrappeo, N.M., DeLorenze, E., Hagenah, N., Hautier, Y., Hofmockel, K.S., Kirkman, K.P., Knops, J.M.H., La Pierre, K.J., MacDougall, A.S., McCulley, R.L., Mitchell, C.E., Risch, A.C., Schuetz, M., Stevens, C.J., Williams, R.J., Fierer, N., 2015. Plant diversity predicts beta but not alpha diversity of soil microbes across grasslands worldwide. *Ecol. Lett.* 18, 85–95. <https://doi.org/10.1111/ele.12381>

Pudmenzky, C., King, R., Butler, H., 2015. Broad scale mapping of vegetation cover across Australia from rainfall and temperature data. *JOURNAL OF ARID ENVIRONMENTS* 120, 55–62. <https://doi.org/10.1016/j.jaridenv.2015.04.010>

Purss, M.B.J., Lewis, A., Oliver, S., Ip, A., Sixsmith, J., Evans, B., Edberg, R., Frankish, G., Hurst, L., Chan, T., 2015. Unlocking the Australian Landsat Archive - From dark data to High Performance Data infrastructures. *GeoResJ* 6, 135–140. <https://doi.org/10.1016/j.grj.2015.02.010>

Rammig, A., Mahecha, M.D., 2015. Ecology: Ecosystem responses to climate extremes. *Nature* 527, 315–316. <https://doi.org/10.1038/527315a>

Rossel, R.A.V., Chen, C., Grundy, M.J., Searle, R., Clifford, D., Campbell, P.H., 2015. The Australian three-dimensional soil grid: Australia's contribution to the GlobalSoilMap project. *Soil Res.* 53, 845–864. <https://doi.org/10.1071/sr14366>

Russell-Smith, Jeremy, Lindenmayer, D., Kubiszewski, I., Green, P., Costanza, R., Campbell, A., 2015a. Moving beyond evidence-free environmental policy. *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT* 13, 441–448. <https://doi.org/10.1890/150019>

Russell-Smith, Jeremy, Murphy, B.P., Lawes, M.J., 2015b. Both fire size and frequency matter A response to Griffiths et al. *BIOLOGICAL CONSERVATION* 192, 477. <https://doi.org/10.1016/j.biocon.2015.09.027>

Russell-Smith, J., Yates, C.P., Edwards, A.C., Whitehead, P.J., Murphy, B.P., Lawes, M.J., 2015. Deriving multiple benefits from carbon market-based savanna fire management: An Australian example. *PLoS ONE* 10. <https://doi.org/10.1371/journal.pone.0143426>

Rutledge, S., Mudge, P.L., Campbell, D.I., Woodward, S.L., Goodrich, J.P., Wall, A.M., Kirschbaum, M.U.F., Schipper, L.A., 2015. Carbon balance of an intensively grazed temperate dairy pasture over four years. *Agriculture, Ecosystems and Environment* 206, 10–20. <https://doi.org/10.1016/j.agee.2015.03.011>

Sanderman, Jonathan, Krull, E., Kuhn, T., Hancock, G., McGowan, J., Maddern, T., Fallon, S., Steven, A., 2015. Deciphering sedimentary organic matter sources: Insights from radiocarbon measurements and NMR spectroscopy. *LIMNOLOGY AND OCEANOGRAPHY* 60, 739–753. <https://doi.org/10.1002/lno.10064>

Sanderman, J., Reseigh, J., Wurst, M., Young, M.A., Austin, J., 2015. Impacts of rotational grazing on soil carbon in native grass-based pastures in southern Australia. *PLoS ONE* 10. <https://doi.org/10.1371/journal.pone.0136157>

Scarth, P., Armston, J., Flood, N., Denham, R., Collett, L., Watson, F., Trevithick, B., Muir, J., Goodwin, N., Tindalla, D., Phinn, S., 2015. Operational application of the landsat timeseries to address large area landcover

understanding, in: Paparoditis N., M.C., Raimond A.M...Sithole G...Rabatel G...Coltekin A...Rottensteiner F...Briottet X...Christophe S...Dowman I...Elberink S.O...Patane G. (Ed.), International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives. International Society for Photogrammetry and Remote Sensing, pp. 571–575. <https://doi.org/10.5194/isprsarchives-XL-3-W3-571-2015>

Scheiter, S., Higgins, S.I., Beringer, J., Hutley, L.B., 2015. Climate change and long-term fire management impacts on Australian savannas. *New Phytol.* 205, 1211–1226. <https://doi.org/10.1111/nph.13130>

Schymanski, S.J., Roderick, M.L., Sivapalan, M., 2015. Using an optimality model to understand medium and long-term responses of vegetation water use to elevated atmospheric CO<sub>2</sub> concentrations. *AOB PLANTS* 7. <https://doi.org/10.1093/aobpla/plv060>

Seabloom, E.W., Borer, E.T., Buckley, Y.M., Cleland, E.E., Davies, K.F., Firn, J., Harpole, W.S., Hautier, Y., Lind, E.M., MacDougall, A.S., Orrock, J.L., Prober, S.M., Adler, P.B., Anderson, T.M., Bakker, J.D., Biederman, L.A., Blumenthal, D.M., Brown, C.S., Brudvig, L.A., Cadotte, M., Chu, C.J., Cottingham, K.L., Crawley, M.J., Damschen, E.I., Dantonio, C.M., DeCrappeo, N.M., Du, G.Z., Fay, P.A., Frater, P., Gruner, D.S., Hagenah, N., Hector, A., Hillebrand, H., Hofmockel, K.S., Humphries, H.C., Jin, V.L., Kay, A., Kirkman, K.P., Klein, J.A., Knops, J.M.H., La Pierre, K.J., Ladwig, L., Lambrinos, J.G., Li, Q., Li, W., Marushia, R., McCulley, R.L., Melbourne, B.A., Mitchell, C.E., Moore, J.L., Morgan, J., Mortensen, B., O'Halloran, L.R., Pyke, D.A., Risch, A.C., Sankaran, M., Schuetz, M., Simonsen, A., Smith, M.D., Stevens, C.J., Sullivan, L., Wolkovich, E., Wragg, P.D., Wright, J., Yang, L., 2015. Plant species' origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. *Nat. Commun.* 6, 7710. <https://doi.org/10.1038/ncomms8710>

Shanafield, M., Cook, P.G., Gutiérrez-Jurado, H.A., Faux, R., Cleverly, J., Eamus, D., 2015. Field comparison of methods for estimating groundwater discharge by evaporation and evapotranspiration in an arid-zone playa. *Journal of Hydrology* 527, 1073–1083. <https://doi.org/10.1016/j.jhydrol.2015.06.003>

Soper, F.M., Richards, A.E., Siddique, I., Aidar, M.P.M., Cook, G.D., Hutley, L.B., Robinson, N., Schmidt, S., 2015. Natural abundance ( $\delta^{15}\text{N}$ ) indicates shifts in nitrogen relations of woody taxa along a savanna-woodland continental rainfall gradient. *Oecologia* 178, 297–308. <https://doi.org/10.1007/s00442-014-3176-3>

Specht, A., Gordon, I.J., Groves, R.H., Lambers, H., Phinn, S.R., 2015a. Catalysing transdisciplinary synthesis in ecosystem science and management. *SCIENCE OF THE TOTAL ENVIRONMENT* 534, 1–3. <https://doi.org/10.1016/j.scitotenv.2015.06.044>

Specht, A., Guru, S., Houghton, L., Keniger, L., Driver, P., Ritchie, E.G., Lai, K., Treloar, A., 2015b. Data management challenges in analysis and synthesis in the ecosystem sciences. *SCIENCE OF THE TOTAL ENVIRONMENT* 534, 144–158. <https://doi.org/10.1016/j.scitotenv.2015.03.092>

Srivastava, S.K., 2015. Availability and uses of spatial databases for research and management of K'gari-Fraser Island. *AUSTRALASIAN JOURNAL OF ENVIRONMENTAL MANAGEMENT* 22, 233–260. <https://doi.org/10.1080/14486563.2015.1028108>

Steane, D.A., Potts, B.M., McLean, E., Collins, L., Prober, S.M., Stock, W.D., Vaillancourt, R.E., Byrne, M., 2015. Genome-wide scans reveal cryptic population structure in a dry-adapted eucalypt. *Tree Genet. Genomes* 11, 33. <https://doi.org/10.1007/s11295-015-0864-z>

Stevens, C.J., Lind, E.M., Hautier, Y., Harpole, W.S., Borer, E.T., Hobbie, S., Seabloom, E.W., Ladwig, L., Bakker, J.D., Chu, C.J., Collins, S., Davies, K.F., Firn, J., Hillebrand, H., La Pierre, K.J., MacDougall, A., Melbourne, B., McCulley, R.L., Morgan, J., Orrock, J.L., Prober, S.M., Risch, A.C., Schuetz, M., Wragg, P.D., 2015. Anthropogenic nitrogen deposition predicts local grassland primary production worldwide. *Ecology* 96, 1459–1465. <https://doi.org/10.1890/14-1902.1>

Stirnemann, I., Mortelliti, A., Gibbons, P., Lindenmayer, D.B., 2015. Fine-Scale Habitat Heterogeneity Influences Occupancy in Terrestrial Mammals in a Temperate Region of Australia. *PLOS ONE* 10. <https://doi.org/10.1371/journal.pone.0138681>

Stirnemann, I.A., Ikin, K., Gibbons, P., Blanchard, W., Lindenmayer, D.B., 2015. Measuring habitat heterogeneity reveals new insights into bird community composition. *OECOLOGIA* 177, 733–746. <https://doi.org/10.1007/s00442-014-3134-0>

Stockmann, U., Padarian, J., McBratney, A., Minasny, B., de Brogniez, D., Montanarella, L., Hong, S.Y., Rawlins, B.G., Field, D.J., 2015. Global soil organic carbon assessment. *GLOBAL FOOD SECURITY-AGRICULTURE POLICY ECONOMICS AND ENVIRONMENT* 6, 9–16. <https://doi.org/10.1016/j.gfs.2015.07.001>

Stoeckl, N., Chaiechi, T., Farr, M., Jarvis, D., Alvarez-Romero, J.G., Kennard, M.J., Hermoso, V., Pressey, R.L., 2015. Co-benefits and trade-offs between agriculture and conservation: A case study in Northern Australia. *BIOLOGICAL CONSERVATION* 191, 478–494. <https://doi.org/10.1016/j.biocon.2015.07.032>

Sun, Q., Meyer, W.S., Koerber, G.R., Marschner, P., 2015. Response of respiration and nutrient availability to drying and rewetting in soil from a semi-arid woodland depends on vegetation patch and a recent wildfire. *Biogeosciences* 12, 5093–5101. <https://doi.org/10.5194/bg-12-5093-2015>

Sweeney, N., Driscoll, D.A., Lindenmayer, D.B., Porch, N., 2015. Plantations, not farmlands, cause biotic homogenisation of ground-active beetles in south-eastern Australia. *BIOLOGICAL CONSERVATION* 186, 1–11. <https://doi.org/10.1016/j.biocon.2015.02.026>

Hackway, R., Specht, A., 2015a. Reprint of: Synthesising the effects of land use on natural and managed landscapes. *SCIENCE OF THE TOTAL ENVIRONMENT* 534, 14–30. <https://doi.org/10.1016/j.scitotenv.2015.06.093>

Hackway, R., Specht, A., 2015b. Synthesising the effects of land use on natural and managed landscapes. *SCIENCE OF THE TOTAL ENVIRONMENT* 526, 136–152. <https://doi.org/10.1016/j.scitotenv.2015.04.070>

Thomas, M., Clifford, D., Bartley, R., Philip, S., Brough, D., Gregory, L., Willis, R., Glover, M., 2015. Putting regional digital soil mapping into practice in Tropical Northern Australia. *GEODERMA* 241, 145–157. <https://doi.org/10.1016/j.geoderma.2014.11.016>

Thomson, J.R., Maron, M., Grey, M.J., Catterall, C.P., Major, R.E., Oliver, D.L., Clarke, M.F., Loyn, R.H., Davidson, I., Ingwersen, D., Robinson, D., Kutt, A., MacDonald, M.A., Mac Nally, R., 2015. Avifaunal disarray: quantifying models of the occurrence and ecological effects of a despotic bird species. *DIVERSITY AND DISTRIBUTIONS* 21, 451–464. <https://doi.org/10.1111/ddi.12294>

Togashi, H.F., Prentice, I.C., Evans, B.J., Forrester, D.I., Drake, P., Feikema, P., Brooksbank, K., Eamus, D., Taylor, D., 2015. Morphological and moisture availability controls of the leaf area-to-sapwood area ratio: analysis of measurements on Australian trees. *Ecology and Evolution* 5, 1263–1270. <https://doi.org/10.1002/ece3.1344>

Tozer, M.G., Leishman, M.R., Auld, T.D., 2015. Ecosystem risk assessment for Cumberland Plain Woodland, New South Wales, Australia. *Austral Ecology* 40, 400–410. <https://doi.org/10.1111/aec.12201>

van Dijk, A.I.J.M., Gash, J.H., van Gorsel, E., Blanken, P.D., Cescatti, A., Emmel, C., Gielen, B., Harman, I.N., Kiely, G., Merbold, L., Montagnani, L., Moors, E., Sottocornola, M., Varlagin, A., Williams, C.A., Wohlfahrt, G., 2015. Rainfall interception and the coupled surface water and energy balance. *Agricultural and Forest Meteorology* 214–215, 402–415. <https://doi.org/10.1016/j.agrformet.2015.09.006>

Villasenor, N.R., Blanchard, W., Driscoll, D.A., Gibbons, P., Lindenmayer, D.B., 2015. Strong influence of local habitat structure on mammals reveals mismatch with edge effects models. *LANDSCAPE ECOLOGY* 30, 229–245. <https://doi.org/10.1007/s10980-014-0117-9>

Villeneuve, S., Cook, P.G., Shanafield, M., Wood, C., White, N., 2015. Groundwater recharge via infiltration through an ephemeral riverbed, central Australia. *Journal of Arid Environments* 117, 47–58. <https://doi.org/10.1016/j.jaridenv.2015.02.009>

Vote, C., Hall, A., Charlton, P., 2015. Carbon dioxide, water and energy fluxes of irrigated broad-acre crops in an Australian semi-arid climate zone. *Environmental Earth Sciences* 73, 449–465. <https://doi.org/10.1007/s12665-014-3547-4>

Wagle, P., Xiao, X., Scott, R.L., Kolb, T.E., Cook, D.R., Brunsell, N., Baldocchi, D.D., Basara, J., Matamala, R., Zhou, Y., Bajgain, R., 2015. Biophysical controls on carbon and water vapor fluxes across a grassland climatic gradient in the United States. *Agricultural and Forest Meteorology* 214–215, 293–305. <https://doi.org/10.1016/j.agrformet.2015.08.265>

Wardle, G.M., Greenville, A.C., Frank, A.S.K., Tischler, M., Emery, N.J., Dickman, C.R., 2015. Ecosystem risk assessment of Georgina gidgee woodlands in central Australia. *Austral Ecology* 40, 444–459. <https://doi.org/10.1111/aec.12265>

White-Monsant, A.C., Clark, G.J., Chuen, M.A.G.N.K., Camac, J.S., Wang, X., Papst, W.A., Tang, C., 2015. Experimental warming and fire alter fluxes of soil nutrients in sub-alpine open heathland. *CLIMATE RESEARCH* 64, 159–171. <https://doi.org/10.3354/cr01273>

Wilkes, P., Jones, S.D., Suarez, L., Haywood, A., Woodgate, W., Soto-Berelov, M., Mellor, A., Skidmore, A.K., 2015a. Understanding the effects of als pulse density for metric retrieval across diverse forest types. *Photogrammetric Engineering and Remote Sensing* 81, 625–635. <https://doi.org/10.14358/PERS.81.8.625>

Wilkes, P., Jones, S.D., Suarez, L., Mellor, A., Woodgate, W., Soto-Berelov, M., Haywood, A., Skidmore, A.K., 2015b. Mapping forest canopy height across large areas by upscaling ALS estimates with freely available satellite data. *Remote Sensing* 7, 12563–12587. <https://doi.org/10.3390/rs70912563>

Williams, R.J., Wahren, C.H., Stott, K.A.J., Camac, J.S., White, M., Burns, E., Harris, S., Nash, M., Morgan, J.W., Venn, S., Papst, W.A., Hoffmann, A.A., 2015. An International Union for the Conservation of Nature Red List ecosystems risk assessment for alpine snow patch herbfields, South-Eastern Australia. *Austral Ecology* 40, 433–443. <https://doi.org/10.1111/aec.12266>

Woinarski, J.C.Z., 2015. Critical-weight-range marsupials in northern Australia are declining: a commentary on Fisher et al. (2014) 'The current decline of tropical marsupials in Australia: is history repeating?'. *GLOBAL ECOLOGY AND BIOGEOGRAPHY* 24, 118–122. <https://doi.org/10.1111/geb.12165>

Wood, S.W., Prior, L.D., Stephens, H.C., Bowman, D., 2015. Macroecology of Australian tall eucalypt forests: Baseline data from a continental-scale permanent plot network. *PLoS One* 10, 24. <https://doi.org/10.1371/journal.pone.0137811>

Woodgate, W., Jones, S.D., Suarez, L., Hill, M.J., Armston, J.D., Wilkes, P., Soto-Berelov, M., Haywood, A., Mellor, A., 2015. Understanding the variability in ground-based methods for retrieving canopy openness, gap fraction, and leaf area index in diverse forest systems. *Agric. For. Meteorol.* 205, 83–95. <https://doi.org/10.1016/j.agrformet.2015.02.012>

Yao, Y., Liang, S., Li, X., Chen, J., Wang, K., Jia, K., Cheng, J., Jiang, B., Fisher, J.B., Mu, Q., Grünwald, T., Bernhofer, C., Roupsard, O., 2015. A satellite-based hybrid algorithm to determine the Priestley-Taylor parameter for global terrestrial latent heat flux estimation across multiple biomes. *Remote Sensing of Environment* 165, 216–233. <https://doi.org/10.1016/j.rse.2015.05.013>

Yao, Y.J., Zhang, Y.H., Zhao, S.H., Li, X.L., Jia, K., 2015. Evaluation of three satellite-based latent heat flux algorithms over forest ecosystems using eddy covariance data. Environ. Monit. Assess. 187.  
<https://doi.org/10.1007/s10661-015-4619-y>

Yebra, M., Van Dijk, A.I.J.M., Leuning, R., Guerschman, J.P., 2015. Global vegetation gross primary production estimation using satellite-derived light-use efficiency and canopy conductance. Remote Sensing of Environment 163, 206–216. <https://doi.org/10.1016/j.rse.2015.03.016>

Yee, M.S., Pauwels, V.R.N., Daly, E., Beringer, J., Ruediger, C., McCabe, M.F., Walker, J.P., 2015. A comparison of optical and microwave scintillometers with eddy covariance derived surface heat fluxes. AGRICULTURAL AND FOREST METEOROLOGY 213, 226–239. <https://doi.org/10.1016/j.agrformet.2015.07.004>

Youngentob, K.N., Yoon, H.J., Stein, J., Lindenmayer, D.B., Held, A.A., 2015. Where the wild things are: using remotely sensed forest productivity to assess arboreal marsupial species richness and abundance. Divers. Distrib. 21, 977–990. <https://doi.org/10.1111/ddi.12332>

Zhang, L.X., Zhou, D.C., Fan, J.W., Hu, Z.M., 2015. Comparison of four light use efficiency models for estimating terrestrial gross primary production. Ecological Modelling 300, 30–39.  
<https://doi.org/10.1016/j.ecolmodel.2015.01.001>

---

## 2014

---

Adams, V.M., Alvarez-Romero, J.G., Carwardine, J., Cattarino, L., Hermoso, V., Kennard, M.J., Linke, S., Pressey, R.L., Stoeckl, N., 2014. Planning Across Freshwater and Terrestrial Realms: Cobenefits and Tradeoffs Between Conservation Actions. *CONSERVATION LETTERS* 7, 425–440. <https://doi.org/10.1111/conl.12080>

Andersen, A., Beringer, J., Bull, C.M., Byrne, M., Cleugh, H., Christensen, R., French, K., Harch, B., Hoffmann, A., Lowe, A.J., Moltmann, T., Nicotra, A., Pitman, A., Phinn, S., Wardle, G., Westoby, M., 2014. Foundations for the future: A long-term plan for Australian ecosystem science. *Austral Ecology* 39, 739–748.  
<https://doi.org/10.1111/aec.12188>

Baker, T.P., Jordan, G.J., Steel, E.A., Fountain-Jones, N.M., Wardlaw, T.J., Baker, S.C., 2014. Microclimate through space and time: Microclimatic variation at the edge of regeneration forests over daily, yearly and decadal time scales. *FOREST ECOLOGY AND MANAGEMENT* 334, 174–184. <https://doi.org/10.1016/j.foreco.2014.09.008>

Banks, S.C., Lindenmayer, D.B., 2014. Inbreeding avoidance, patch isolation and matrix permeability influence dispersal and settlement choices by male agile antechinus in a fragmented landscape. *JOURNAL OF ANIMAL ECOLOGY* 83, 515–524. <https://doi.org/10.1111/1365-2656.12128>

Baraza, V., Grings, F., Ferrazzoli, P., Huete, A., Restrepo-Coupe, N., Beringer, J., Van Gorsel, E., Karszenbaum, H., 2014. Behavior of multitemporal and multisensor passive microwave indices in Southern Hemisphere ecosystems. *J. Geophys. Res.-Biogeosci.* 119, 2231–2244. <https://doi.org/10.1002/2014jg002626>

Barton, P.S., Ikin, K., Smith, A.L., MacGregor, C., Lindenmayer, D.B., 2014a. Vegetation structure moderates the effect of fire on bird assemblages in a heterogeneous landscape. *LANDSCAPE ECOLOGY* 29, 703–714.  
<https://doi.org/10.1007/s10980-014-0017-z>

Barton, P.S., Westgate, M.J., Lane, P.W., MacGregor, C., Lindenmayer, D.B., 2014b. Robustness of habitat-based surrogates of animal diversity: a multitaxa comparison over time. *JOURNAL OF APPLIED ECOLOGY* 51, 1434–1443. <https://doi.org/10.1111/1365-2664.12290>

Blyton, M.D.J., Banks, S.C., Peakall, R., Lindenmayer, D.B., Gordon, D.M., 2014a. Not all types of host contacts are equal when it comes to *E. coli* transmission. *ECOLOGY LETTERS* 17, 970–978.  
<https://doi.org/10.1111/ele.12300>

Blyton, M.D.J., Lindenmayer, D.B., Banks, S.C., 2014b. Maternal lineages best explain the associations of a semisocial marsupial. *BEHAVIORAL ECOLOGY* 25, 1212–1222. <https://doi.org/10.1093/beheco/aru116>

Bond, N., Costelloe, J., King, A., Warfe, D., Reich, P., Balcombe, S., 2014. Ecological risks and opportunities from engineered artificial flooding as a means of achieving environmental flow objectives. *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT* 12, 386–394. <https://doi.org/10.1890/130259>

Borer, E.T., Seabloom, E.W., Gruner, D.S., Harpole, W.S., Hillebrand, H., Lind, E.M., Adler, P.B., Alberti, J., Anderson, T.M., Bakker, J.D., Biederman, L., Blumenthal, D., Brown, C.S., Brudvig, L.A., Buckley, Y.M., Cadotte, M., Chu, C.J., Cleland, E.E., Crawley, M.J., Daleo, P., Damschen, E.I., Davies, K.F., DeCrappeo, N.M., Du, G.Z., Firn, J., Hautier, Y., Heckman, R.W., Hector, A., HilleRisLambers, J., Iribarne, O., Klein, J.A., Knops, J.M.H., La Pierre, K.J., Leakey, A.D.B., Li, W., MacDougall, A.S., McCulley, R.L., Melbourne, B.A., Mitchell, C.E., Moore, J.L., Mortensen, B., O'Halloran, L.R., Orrock, J.L., Pascual, J., Prober, S.M., Pyke, D.A., Risch, A.C., Schuetz, M., Smith, M.D., Stevens, C.J., Sullivan, L.L., Williams, R.J., Wragg, P.D., Wright, J.P., Yang, L.H., 2014. Herbivores and nutrients control grassland plant diversity via light limitation. *Nature* 508, 517–520.  
<https://doi.org/10.1038/nature13144>

Bowman, D.M.J.S., Williamson, G.J., Keenan, R.J., Prior, L.D., 2014. A warmer world will reduce tree growth in evergreen broadleaf forests: evidence from Australian temperate and subtropical eucalypt forests. *Global Ecology and Biogeography* 23, 925–934. <https://doi.org/10.1111/geb.12171>

Bradford, M.G., Metcalfe, D.J., Ford, A., Liddell, M.J., McKeown, A., 2014. Floristics, stand structure and aboveground biomass of a 25-ha rainforest plot in the wet tropics of Australia. *J. Trop. For. Sci.* 26, 543–553.

Bradshaw, C.J.A., Brook, B.W., 2014. Human population reduction is not a quick fix for environmental problems. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 111, 16610–16615. <https://doi.org/10.1073/pnas.1410465111>

Breed, M.F., Christmas, M.J., Lowe, A.J., 2014. Higher levels of multiple paternities increase seedling survival in the long-lived tree *Eucalyptus gracilis*. *PLOS ONE* 9, e90478. <https://doi.org/10.1371/journal.pone.0090478>

Burrows, R.M., Magierowski, R.H., Fellman, J.B., Clapcott, J.E., Munks, S.A., Roberts, S., Davies, P.E., Barmuta, L.A., 2014. Variation in stream organic matter processing among years and benthic habitats in response to forest clearfelling. *For. Ecol. Manage.* 327, 136–147. <https://doi.org/10.1016/j.foreco.2014.04.041>

Calders, K., Armston, J., Newnham, G., Herold, M., Goodwin, N., 2014. Implications of sensor configuration and topography on vertical plant profiles derived from terrestrial LiDAR. *AGRICULTURAL AND FOREST METEOROLOGY* 194, 104–117. <https://doi.org/10.1016/j.agrformet.2014.03.022>

Campbell, D.I., Smith, J., Goodrich, J.P., Wall, A.M., Schipper, L.A., 2014. Year-round growing conditions explains large CO<sub>2</sub> sink strength in a New Zealand raised peat bog. *Agricultural and Forest Meteorology* 192, 59–68. <https://doi.org/10.1016/j.agrformet.2014.03.003>

Chariton, A.A., Ho, K.T., Proestou, D., Bik, H., Simpson, S.L., Portis, L.M., Cantwell, M.G., Baguley, J.G., Burgess, R.M., Pelletier, M.M., Perron, M., Gunsch, C., Matthews, R.A., 2014. A MOLECULAR-BASED APPROACH FOR EXAMINING RESPONSES OF EUKARYOTES IN MICROCOMMS TO CONTAMINANT-SPIKED ESTUARINE SEDIMENTS. *ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY* 33, 359–369. <https://doi.org/10.1002/etc.2450>

Chen, C., Eamus, D., Cleverly, J., Boulain, N., Cook, P., Zhang, L., Cheng, L., Yu, Q., 2014. Modelling vegetation water-use and groundwater recharge as affected by climate variability in an arid-zone Acacia savanna woodland. *Journal of Hydrology* 519, 1084–1096. <https://doi.org/10.1016/j.jhydrol.2014.08.032>

Clifford, D., Dobbie, M.J., Searle, R., 2014. Non-parametric imputation of properties for soil profiles with sparse observations. *GEODERMA* 232, 10–18. <https://doi.org/10.1016/j.geoderma.2014.04.026>

Crane, M.J., Lindenmayer, D.B., Cunningham, R.B., 2014. The Value of Countryside Elements in the Conservation of a Threatened Arboreal Marsupial *Petaurus norfolkensis* in Agricultural Landscapes of South-Eastern Australia-The Disproportional Value of Scattered Trees. *PLOS ONE* 9. <https://doi.org/10.1371/journal.pone.0107178>

Dale, A.P., Pressey, B., Adams, V.M., Álvarez-Romero, J.G., Digby, M., 2014. Catchment-Scale Governance in Northern Australia: A Preliminary Evaluation. *Journal of Economic and Social Policy* 16, 1–27.

Davies, N., Field, D., Amaral-Zettler, L., Clark, M.S., Deck, J., Drummond, A., Faith, D.P., Geller, J., Gilbert, J., Glöckner, F.O., Hirsch, P.R., Leong, J.-A., Meyer, C., Obst, M., Planes, S., Scholin, C., Vogler, A.P., Gates, R.D., Toonen, R., Berteaux-Lecellier, V., Barbier, M., Barker, K., Bertilsson, S., Bicak, M., Bietz, M.J., Bobe, J., Bodrossy, L., Borja, A., Coddington, J., Fuhrman, J., Gerdts, G., Gillespie, R., Goodwin, K., Hanson, P.C., Hero, J.-M., Hoekman, D., Jansson, J., Jeanthon, C., Kao, R., Klindworth, A., Knight, R., Kottmann, R., Koo, M.S., Kotoulas, G., Lowe, A.J., Marteinsson, V.T., Meyer, F., Morrison, N., Myrold, D.D., Pafilis, E., Parker, S., Parnell, J.J., Polymenakou, P.N., Ratnasingham, S., Roderick, G.K., Rodriguez-Ezpeleta, N., Schonrogge, K., Simon, N., Valette-Silver, N.J., Springer, Y.P., Stone, G.N., Stones-Havas, S., Sansone, S.-A., Thibault, K.M., Wecker, P., Wichels, A., Wooley, J.C., Yahara, T., Zingone, A., 2014. The founding charter of the Genomic Observatories Network. *GigaScience* 3, 2. <https://doi.org/10.1186/2047-217x-3-2>

Dickman, C.R., Robin, L., 2014. Putting Science in its Place: The Role of Sandringham Station in Fostering Arid Zone Science in Australia. *HISTORICAL RECORDS OF AUSTRALIAN SCIENCE* 25, 186–201.  
<https://doi.org/10.1071/HR14014>

Donohue, R.J., Hume, I.H., Roderick, M.L., McVicar, T.R., Beringer, J., Hutley, L.B., Gallant, J.C., Austin, J.M., van Gorsel, E., Cleverly, J.R., Meyer, W.S., Arndt, S.K., 2014. Evaluation of the remote-sensing-based DIFFUSE model for estimating photosynthesis of vegetation. *Remote Sensing of Environment* 155, 349–365.  
<https://doi.org/10.1016/j.rse.2014.09.007>

Ershadi, A., McCabe, M.F., Evans, J.P., Chaney, N.W., Wood, E.F., 2014. Multi-site evaluation of terrestrial evaporation models using FLUXNET data. *Agric. For. Meteorol.* 187, 46–61.

Fedrowitz, K., Koricheva, J., Baker, S.C., Lindenmayer, D.B., Palik, B., Rosenvald, R., Beese, W., Franklin, J.F., Kouki, J., Macdonald, E., Messier, C., Sverdrup-Thygeson, A., Gustafsson, L., 2014. Can retention forestry help conserve biodiversity? A meta-analysis. *JOURNAL OF APPLIED ECOLOGY* 51, 1669–1679.  
<https://doi.org/10.1111/1365-2664.12289>

Fisher, D.O., Johnson, C.N., Lawes, M.J., Fritz, S.A., McCallum, H., Blomberg, S.P., VanDerWal, J., Abbott, B., Frank, A., Legge, S., Letnic, M., Thomas, C.R., Fisher, A., Gordon, I.J., Kutt, A., 2014. The current decline of tropical marsupials in Australia: is history repeating? *GLOBAL ECOLOGY AND BIOGEOGRAPHY* 23, 181–190.  
<https://doi.org/10.1111/geb.12088>

Foster, C.N., Barton, P.S., Lindenmayer, D.B., 2014. Effects of large native herbivores on other animals. *JOURNAL OF APPLIED ECOLOGY* 51, 929–938. <https://doi.org/10.1111/1365-2664.12268>

Frank, A.S.K., Wardle, G.M., Dickman, C.R., Greenville, A.C., 2014. Habitat- and rainfall-dependent biodiversity responses to cattle removal in an arid woodland-grassland environment. *ECOLOGICAL APPLICATIONS* 24, 2013–2028. <https://doi.org/10.1890/13-2244.1>

Gosper, C.R., Yates, C.J., Prober, S.M., Wiehl, G., 2014. Application and validation of visual fuel hazard assessments in dry Mediterranean-climate woodlands. *INTERNATIONAL JOURNAL OF WILDLAND FIRE* 23, 385–393. <https://doi.org/10.1071/WF13096>

Gray, J.M., Frolking, S., Kort, E.A., Ray, D.K., Kucharik, C.J., Ramankutty, N., Friedl, M.A., 2014. Direct human influence on atmospheric CO<sub>2</sub> seasonality from increased cropland productivity. *Nature* 515, 398–401.  
<https://doi.org/10.1038/nature13957>

Green, P.T., Harms, K.E., Connell, J.H., 2014. Nonrandom, diversifying processes are disproportionately strong in the smallest size classes of a tropical forest. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 111, 18649–18654. <https://doi.org/10.1073/pnas.1321892112>

Greenville, A.C., Wardle, G.M., Tamayo, B., Dickman, C.R., 2014. Bottom-up and top-down processes interact to modify intraguild interactions in resource-pulse environments. *OECOLOGIA* 175, 1349–1358.  
<https://doi.org/10.1007/s00442-014-2977-8>

Guerin, G.R., Biffin, E., Jardine, D.I., Cross, H.B., Lowe, A.J., Scheiner, S., 2014a. A spatially predictive baseline for monitoring multivariate species occurrences and phylogenetic shifts in mediterranean southern Australia. *Journal of Vegetation Science* 25, 338–348. <https://doi.org/10.1111/jvs.12111>

Guerin, G.R., Martín-Forés, I., Biffin, E., Baruch, Z., Breed, M.F., Christmas, M.J., Cross, H.B., Lowe, A.J., 2014b. Global change community ecology beyond species-sorting: a quantitative framework based on mediterranean-biome examples. *Global Ecology and Biogeography* 23, 1062–1072. <https://doi.org/10.1111/geb.12184>

Haberle, S.G., Bowman, D.M.J.S., Newnham, R.M., Johnston, F.H., Beggs, P.J., Buters, J., Campbell, B., Erbas, B., Godwin, I., Green, B.J., Huete, A., Jaggard, A.K., Medek, D., Murray, F., Newbigin, E., Thibaudon, M., Vicendese, D., Williamson, G.J., Davies, J.M., 2014. The macroecology of airborne pollen in Australian and New Zealand urban areas. *PLoS ONE* 9. <https://doi.org/10.1371/journal.pone.0097925>

Hautier, Y., Seabloom, E.W., Borer, E.T., Adler, P.B., Harpole, W.S., Hillebrand, H., Lind, E.M., MacDougall, A.S., Stevens, C.J., Bakker, J.D., Buckley, Y.M., Chu, C.J., Collins, S.L., Daleo, P., Damschen, E.I., Davies, K.F., Fay, P.A., Firn, J., Gruner, D.S., Jin, V.L., Klein, J.A., Knops, J.M.H., La Pierre, K.J., Li, W., McCulley, R.L., Melbourne, B.A., Moore, J.L., O'Halloran, L.R., Prober, S.M., Risch, A.C., Sankaran, M., Schuetz, M., Hector, A., 2014. Eutrophication weakens stabilizing effects of diversity in natural grasslands. *Nature* 508, 521–525. <https://doi.org/10.1038/nature13014>

Hero, J.M., Butler, S.A., Lollback, G.W., Castley, J.G., 2014. Determinants of tree assemblage composition at the mesoscale within a subtropical eucalypt forest. *PLoS One* 9, 18. <https://doi.org/10.1371/journal.pone.0114994>

Hingston, A.B., Jordan, G.J., Wardlaw, T.J., Baker, S.C., 2014. Bird assemblages in Tasmanian clearcuts are influenced by the age of eucalypt regeneration but not by distance from mature forest. *Global Ecology and Conservation* 2, 138–147. <https://doi.org/10.1016/j.gecco.2014.09.003>

Hoogmoed, M., Cunningham, S.C., Baker, P., Beringer, J., Cavagnaro, T.R., 2014. N-fixing trees in restoration plantings: Effects on nitrogen supply and soil microbial communities. *SOIL BIOLOGY & BIOCHEMISTRY* 77, 203–212. <https://doi.org/10.1016/j.soilbio.2014.06.008>

Hughes, S., Wimmer, J., Towsey, M., Fahmi, M., Winslett, G., Dubler, G., Prou, A.L., Loose, D., 2014. The greatest shadow on earth. *Physics Education* 49, 88–94. <https://doi.org/10.1088/0031-9120/49/1/88>

Jiang, B., Zhang, Y., Liang, S., Zhang, X., Xiao, Z., 2014. Surface daytime net radiation estimation using artificial neural networks. *Remote Sensing* 6, 11031–11050. <https://doi.org/10.3390/rs61111031>

Johnson, C.N., Crowther, M.S., Dickman, C.R., Letnic, M.I., Newsome, T.M., Nimmo, D.G., Ritchie, E.G., Wallach, A.D., 2014. Experiments in no-impact control of dingoes: comment on Allen et al. 2013. *FRONTIERS IN ZOOLOGY* 11. <https://doi.org/10.1186/1742-9994-11-17>

Joiner, J., Yoshida, Y., Vasilkov, A., Schaefer, K., Jung, M., Guanter, L., Zhang, Y., Garrity, S., Middleton, E.M., Huemmrich, K.F., Gu, L., Marchesini, L.B., 2014. The seasonal cycle of satellite chlorophyll fluorescence observations and its relationship to vegetation phenology and ecosystem atmosphere carbon exchange. *Remote Sens. Environ.* 152, 375–391. <https://doi.org/10.1016/j.rse.2014.06.022>

Keith, D.A., 2014. Separating risks from values in setting priorities for plant community conservation. *APPLIED VEGETATION SCIENCE* 17, 384–385. <https://doi.org/10.1111/avsc.12112>

Keith, David A., Elith, J., Simpson, C.C., 2014. Predicting distribution changes of a mire ecosystem under future climates. *DIVERSITY AND DISTRIBUTIONS* 20, 440–454. <https://doi.org/10.1111/ddi.12173>

Keith, D. A., Mahony, M., Hines, H., Elith, J., Regan, T.J., Baumgartner, J.B., Hunter, D., Heard, G.W., Mitchell, N.J., Parris, K.M., Penman, T., Scheele, B., Simpson, C.C., Tingley, R., Tracy, C.R., West, M., Akçakaya, H.R., 2014. Detecting extinction risk from climate change by IUCN red list criteria. *Conservation Biology* 28, 810–819. <https://doi.org/10.1111/cobi.12234>

Keith, Heather, Lindenmayer, D., Mackey, B., Blair, D., Carter, L., McBurney, L., Okada, S., Konishi-Nagano, T., 2014a. Managing temperate forests for carbon storage: impacts of logging versus forest protection on carbon stocks. *ECOSPHERE* 5. <https://doi.org/10.1890/ES14-00051.1>

Keith, Heather, Lindenmayer, D.B., Mackey, B.G., Blair, D., Carter, L., McBurney, L., Okada, S., Konishi-Nagano, T., 2014b. Accounting for Biomass Carbon Stock Change Due to Wildfire in Temperate Forest Landscapes in Australia. PLOS ONE 9. <https://doi.org/10.1371/journal.pone.0107126>

Kennedy, R.E., Andrefouet, S., Cohen, W.B., Gomez, C., Griffiths, P., Hais, M., Healey, S.P., Helmer, E.H., Hostert, P., Lyons, M.B., Meigs, G.W., Pflugmacher, D., Phinn, S.R., Powell, S.L., Scarth, P., Sen, S., Schroeder, T.A., Schneider, A., Sonnenschein, R., Vogelmann, J.E., Wulder, M.A., Zhu, Z., 2014. Bringing an ecological view of change to Landsat-based remote sensing. FRONTIERS IN ECOLOGY AND THE ENVIRONMENT 12, 339–346. <https://doi.org/10.1890/130066>

Lazenby, B.T., Mooney, N.J., Dickman, C.R., 2014. Effects of low-level culling of feral cats in open populations: a case study from the forests of southern Tasmania. WILDLIFE RESEARCH 41, 407–420. <https://doi.org/10.1071/WR14030>

Lehmann, C.E.R., Anderson, T.M., Sankaran, M., Higgins, S.I., Archibald, S., Hoffmann, W.A., Hanan, N.P., Williams, R.J., Fensham, R.J., Felfili, J., Hutley, L.B., Ratnam, J., San Jose, J., Montes, R., Franklin, D., Russell-Smith, J., Ryan, C.M., Durigan, G., Hiernaux, P., Haidar, R., Bowman, D.M.J.S., Bond, W.J., 2014. Savanna vegetation-fire-climate relationships differ among continents. SCIENCE 343, 548–552. <https://doi.org/10.1126/science.1247355>

Letten, A.D., Keith, D.A., Tozer, M.G., 2014. Phylogenetic and functional dissimilarity does not increase during temporal heathland succession. PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 281. <https://doi.org/10.1098/rspb.2014.2102>

Lindenmayer, D.B., Banks, S.C., Laurance, W.F., Franklin, J.F., Likens, G.E., 2014a. Broad Decline of Populations of Large Old Trees. CONSERVATION LETTERS 7, 72–73. <https://doi.org/10.1111/conl.12079>

Lindenmayer, D.B., Barton, P.S., Lane, P.W., Westgate, M.J., McBurney, L., Blair, D., Gibbons, P., Likens, G.E., 2014b. An Empirical Assessment and Comparison of Species-Based and Habitat-Based Surrogates: A Case Study of Forest Vertebrates and Large Old Trees. PLOS ONE 9. <https://doi.org/10.1371/journal.pone.0089807>

Lindenmayer, D.B., Blanchard, W., McBurney, L., Blair, D., Banks, S.C., Driscoll, D.A., Smith, A.L., Gill, A.M., 2014c. Complex responses of birds to landscape- level fire extent, fire severity and environmental drivers. DIVERSITY AND DISTRIBUTIONS 20, 467–477. <https://doi.org/10.1111/ddi.12172>

Lindenmayer, D.B., Laurance, W.F., Franklin, J.F., Likens, G.E., Banks, S.C., Blanchard, W., Gibbons, P., Ikin, K., Blair, D., McBurney, L., Manning, A.D., Stein, J.A.R., 2014d. New Policies for Old Trees: Averting a Global Crisis in a Keystone Ecological Structure. CONSERVATION LETTERS 7, 61–69. <https://doi.org/10.1111/conl.12013>

Liu, D., Cai, W., Xia, J., Dong, W., Zhou, G., Chen, Y., Zhang, H., Yuan, W., 2014. Global Validation of a Process-Based Model on Vegetation Gross Primary Production Using Eddy Covariance Observations. PLOS ONE 9. <https://doi.org/10.1371/journal.pone.0110407>

Ma, X., Huete, A., Yu, Q., Restrepo-Coupe, N., Beringer, J., Hutley, L.B., Kanniah, K.D., Cleverly, J., Eamus, D., 2014. Parameterization of an ecosystem light-use-efficiency model for predicting savanna GPP using MODIS EVI. Remote Sensing of Environment 154, 253–271. <https://doi.org/10.1016/j.rse.2014.08.025>

MacDougall, A.S., Bennett, J.R., Firn, J., Seabloom, E.W., Borer, E.T., Lind, E.M., Orrock, J.L., Harpole, W.S., Hautier, Y., Adler, P.B., Cleland, E., Davies, K., Melbourne, B., Prober, S.M., Bakker, J.D., Fay, P.A., Jin, V.L., Kendig, A., La Pierre, K.J., Moore, J., Morgan, J., Stevens, C.J., 2014. Anthropogenic-based regional-scale factors most consistently explain plot-level exotic diversity in grasslands. Glob. Ecol. Biogeogr. 23, 802–810. <https://doi.org/10.1111/geb.12157>

Macfarlane, C., Ryu, Y., Ogden, G.N., Sonnentag, O., 2014. Digital canopy photography: Exposed and in the raw. Agric. For. Meteorol. 197, 244–253.

Mahoney, C., Kljun, N., Los, S.O., Chasmer, L., Hacker, J.M., Hopkinson, C., North, P.R.J., Rosette, J.A.B., van Gorsel, E., 2014. Slope Estimation from ICESat/GLAS. REMOTE SENSING 6, 10051–10069.  
<https://doi.org/10.3390/rs61010051>

Matveev, V.F., Steven, A.D.L., 2014. The effects of salinity, turbidity and flow on fish biomass estimated acoustically in two tidal rivers. MARINE AND FRESHWATER RESEARCH 65, 267–274.  
<https://doi.org/10.1071/MF12266>

McCallum, K.P., Guerin, G.R., Breed, M.F., Lowe, A.J., 2014. Combining population genetics, species distribution modelling and field assessments to understand a species vulnerability to climate change. Austral Ecology 39, 17–28. <https://doi.org/10.1111/aec.12041>

Michael, D.R., Cunningham, R.B., Macgregor, C., Brown, D., Lindenmayer, D.B., 2014. The effects of prey, habitat heterogeneity and fire on the spatial ecology of peninsular Diamond Pythons (*Morelia spilota spilota*: Pythonidae). AUSTRAL ECOLOGY 39, 181–189. <https://doi.org/10.1111/aec.12056>

Mitchell, A.L., Tapley, I., Milne, A.K., Williams, M.L., Zhou, Z.S., Lehmann, E., Caccetta, P., Lowell, K., Held, A., 2014. C- and L-band SAR interoperability: Filling the gaps in continuous forest cover mapping in Tasmania. Remote Sens. Environ. 155, 58–68. <https://doi.org/10.1016/j.rse.2014.02.020>

Mokany, K., Westcott, D.A., Prasad, S., Ford, A.J., Metcalfe, D.J., 2014. Identifying priority areas for conservation and management in diverse tropical forests. PLoS ONE 9. <https://doi.org/10.1371/journal.pone.0089084>

Mortelliti, A., Westgate, M.J., Lindenmayer, D.B., 2014. Experimental evaluation shows limited influence of pine plantations on the connectivity of highly fragmented bird populations. JOURNAL OF APPLIED ECOLOGY 51, 1179–1187. <https://doi.org/10.1111/1365-2664.12313>

Murphy, B.P., Lehmann, C.E.R., Russell-Smith, J., Lawes, M.J., 2014. Fire regimes and woody biomass dynamics in Australian savannas. JOURNAL OF BIOGEOGRAPHY 41, 133–144. <https://doi.org/10.1111/jbi.12204>

Murphy, H.T., Metcalfe, D.J., Bradford, M.G., Ford, A.J., 2014. Community divergence in a tropical forest following a severe cyclone. AUSTRAL ECOLOGY 39, 696–709. <https://doi.org/10.1111/aec.12133>

Newsome, T.M., Ballard, G.-A., Crowther, M.S., Fleiveing, P.J.S., Dickman, C.R., 2014a. Dietary niche overlap of free-roaming dingoes and domestic dogs: the role of human-provided food. JOURNAL OF MAMMALOGY 95, 392–403. <https://doi.org/10.1644/13-MAMM-A-145.1>

Newsome, T.M., Ballard, G.-A., Fleming, P.J.S., van de Ven, R., Story, G.L., Dickman, C.R., 2014b. Human-resource subsidies alter the dietary preferences of a mammalian top predator. OECOLOGIA 175, 139–150.  
<https://doi.org/10.1007/s00442-014-2889-7>

Obata, K., Huete, A.R., 2014. Scaling effects on area-averaged fraction of vegetation cover derived using a linear mixture model with two-band spectral vegetation index constraints. JOURNAL OF APPLIED REMOTE SENSING 8. <https://doi.org/10.1117/1.JRS.8.083629>

Pastro, L.A., Dickman, C.R., Letnic, M., 2014. Fire type and hemisphere determine the effects of fire on the alpha and beta diversity of vertebrates: a global meta-analysis. GLOBAL ECOLOGY AND BIOGEOGRAPHY 23, 1146–1156. <https://doi.org/10.1111/geb.12195>

Paton-Walsh, C., Smith, T.E.L., Young, E.L., Griffith, D.W.T., Guerette, E.A., 2014. New emission factors for Australian vegetation fires measured using open-path Fourier transform infrared spectroscopy - Part 1: Methods and Australian temperate forest fires. ATMOSPHERIC CHEMISTRY AND PHYSICS 14, 11313–11333.  
<https://doi.org/10.5194/acp-14-11313-2014>

Pickett-Heaps, C.A., Canadell, J.G., Briggs, P.R., Gobron, N., Haverd, V., Paget, M.J., Pinty, B., Raupach, M.R., 2014. Evaluation of six satellite-derived Fraction of Absorbed Photosynthetic Active Radiation (FAPAR) products across the Australian continent. *REMOTE SENSING OF ENVIRONMENT* 140, 241–256.  
<https://doi.org/10.1016/j.rse.2013.08.037>

Price, O.F., Borah, R., Maier, S., 2014. Role of weather and fuel in stopping fire spread in tropical savannas. *AUSTRAL ECOLOGY* 39, 135–144. <https://doi.org/10.1111/aec.12021>

Prior, L.D., Bowman, D.M.J.S., 2014a. Across a macro-ecological gradient forest competition is strongest at the most productive sites. *Frontiers in Plant Science* 5, 260. <https://doi.org/10.3389/fpls.2014.00260>

Prior, L.D., Bowman, D.M.J.S., 2014b. Big eucalypts grow more slowly in a warm climate: evidence of an interaction between tree size and temperature. *Global Change Biology* 20, 2793–2799.  
<https://doi.org/10.1111/gcb.12540>

Radford, I.J., Dickman, C.R., Start, A.N., Palmer, C., Carnes, K., Everitt, C., Fairman, R., Graham, G., Partridge, T., Thomson, A., 2014. Mammals of Australia's Tropical Savannas: A Conceptual Model of Assemblage Structure and Regulatory Factors in the Kimberley Region. *PLOS ONE* 9. <https://doi.org/10.1371/journal.pone.0092341>

Raiter, K.G., Possingham, H.P., Prober, S.M., Hobbs, R.J., 2014. Under the radar: Mitigating enigmatic ecological impacts. *Trends in Ecology and Evolution* 29, 635–644. <https://doi.org/10.1016/j.tree.2014.09.003>

Rasaiah, B.A., Jones, S.D., Bellman, C., Malthus, T.J., 2014. Critical Metadata for Spectroscopy Field Campaigns. *REMOTE SENSING* 6, 3662–3680. <https://doi.org/10.3390/rs6053662>

Robin, L., Morton, S., Smith, M., 2014. Writing a history of scientific endeavour in Australia's deserts. *Historical Records of Australian Science* 25, 143–152. <https://doi.org/10.1071/HR14011>

Rosell, J.A., Gleason, S., Mendez-Alonzo, R., Chang, Y., Westoby, M., 2014. Bark functional ecology: evidence for tradeoffs, functional coordination, and environment producing bark diversity. *NEW PHYTOLOGIST* 201, 486–497. <https://doi.org/10.1111/nph.12541>

Rossel, R.A.V., Webster, R., Kidd, D., 2014. Mapping gamma radiation and its uncertainty from weathering products in a Tasmanian landscape with a proximal sensor and random forest kriging. *EARTH SURFACE PROCESSES AND LANDFORMS* 39, 735–748. <https://doi.org/10.1002/esp.3476>

Rutledge, S., Mudge, P.L., Wallace, D.F., Campbell, D.I., Woodward, S.L., Wall, A.M., Schipper, L.A., 2014. CO<sub>2</sub> emissions following cultivation of a temperate permanent pasture. *Agriculture Ecosystems & Environment* 184, 21–33. <https://doi.org/10.1016/j.agee.2013.11.005>

Schut, A.G.T., Wardell-Johnson, G.W., Yates, C.J., Keppel, G., Baran, I., Franklin, S.E., Hopper, S.D., Van Niel, K.P., Mucina, L., Byrne, M., 2014. Rapid characterisation of vegetation structure to predict refugia and climate change impacts across a global biodiversity hotspot. *PLOS ONE* 9, e82778.  
<https://doi.org/10.1371/journal.pone.0082778>

Shi, H., Li, L., Eamus, D., Cleverly, J., Huete, A., Beringer, J., Yu, Q., van Gorsel, E., Hutley, L., 2014. Intrinsic climate dependency of ecosystem light and water-use-efficiencies across Australian biomes. *Environmental Research Letters* 9, 104002. <https://doi.org/10.1088/1748-9326/9/10/104002>

Slatyer, R.A., Nash, M.A., Miller, A.D., Endo, Y., Umbers, K.D.L., Hoffmann, A.A., 2014. Strong genetic structure corresponds to small-scale geographic breaks in the Australian alpine grasshopper *Kosciuscola tristis*. *BMC EVOLUTIONARY BIOLOGY* 14. <https://doi.org/10.1186/s12862-014-0204-1>

Smith, A.L., Blair, D., McBurney, L., Banks, S.C., Barton, P.S., Blanchard, W., Driscoll, D.A., Gill, A.M., Lindenmayer, D.B., 2014. Dominant Drivers of Seedling Establishment in a Fire-Dependent Obligate Seeder: Climate or Fire Regimes? *ECOSYSTEMS* 17, 258–270. <https://doi.org/10.1007/s10021-013-9721-9>

Smith, T.E.L., Paton-Walsh, C., Meyer, C.P., Cook, G.D., Maier, S.W., Russell-Smith, J., Wooster, M.J., Yates, C.P., 2014. New emission factors for Australian vegetation fires measured using open-path Fourier transform infrared spectroscopy - Part 2: Australian tropical savanna fires. *ATMOSPHERIC CHEMISTRY AND PHYSICS* 14, 11335–11352. <https://doi.org/10.5194/acp-14-11335-2014>

Smyth, A.K., Smee, E., Godfrey, S.S., Crowther, M., Phalen, D., 2014. The use of body condition and haematology to detect widespread threatening processes in sleepy lizards (*Tiliqua rugosa*) in two agricultural environments. *ROYAL SOCIETY OPEN SCIENCE* 1. <https://doi.org/10.1098/rsos.140257>

Song, B., Niu, S., Luo, R., Luo, Y., Chen, J., Yu, G., Olejnik, J., Wohlfahrt, G., Kiely, G., Noormets, A., Montagnani, L., Cescatti, A., Magliulo, V., Law, B.E., Lund, M., Varlagin, A., Raschi, A., Peichl, M., Nilsson, M.B., Merbold, L., 2014. Divergent apparent temperature sensitivity of terrestrial ecosystem respiration. *Journal of Plant Ecology* 7, 419–428. <https://doi.org/10.1093/jpe/rtu014>

Spencer, E.E., Crowther, M.S., Dickman, C.R., 2014. Risky Business: Do Native Rodents Use Habitat and Odor Cues to Manage Predation Risk in Australian Deserts? *PLOS ONE* 9.

<https://doi.org/10.1371/journal.pone.0090566>

Su, C.-H., Ryu, D., Crow, W.T., Western, A.W., 2014. Stand-alone error characterisation of microwave satellite soil moisture using a Fourier method. *REMOTE SENSING OF ENVIRONMENT* 154, 115–126.

<https://doi.org/10.1016/j.rse.2014.08.014>

Sweeney, N., Lindenmayer, D.B., Driscoll, D.A., 2014. Is the matrix important to butterflies in fragmented landscapes? *JOURNAL OF INSECT CONSERVATION* 18, 283–294. <https://doi.org/10.1007/s10841-014-9641-9>

Tapper, S., Byrne, M., Yates, C.J., Keppel, G., Hopper, S.D., Niel, K.V., Schut, A.G.T., Mucina, L., Wardell-Johnson, G.W., Comes, H., 2014. Prolonged isolation and persistence of a common endemic on granite outcrops in both mesic and semi-arid environments in south-western Australia. *Journal of Biogeography* 41, 2032–2044.

<https://doi.org/10.1111/jbi.12343>

Tapper, S. -L., Byrne, M., Yates, C.J., Keppel, G., Hopper, S.D., Niel, K.V., Schut, A.G.T., Mucina, L., Wardell-Johnson, G.W., Austin, J., 2014. Isolated with persistence or dynamically connected? Genetic patterns in a common granite outcrop endemic. *Diversity and Distributions* 20, 987–1001. <https://doi.org/10.1111/ddi.12185>

Taylor, C., McCarthy, M.A., Lindenmayer, D.B., 2014. Nonlinear Effects of Stand Age on Fire Severity. *CONSERVATION LETTERS* 7, 355–370. <https://doi.org/10.1111/conl.12122>

Villasenor, N.R., Driscoll, D.A., Escobar, M.A.H., Gibbons, P., Lindenmayer, D.B., 2014. Urbanization Impacts on Mammals across Urban-Forest Edges and a Predictive Model of Edge Effects. *PLOS ONE* 9. <https://doi.org/10.1371/journal.pone.0097036>

Viscarra Rossel, R.A., Webster, R., Bui, E.N., Baldock, J.A., 2014. Baseline map of organic carbon in Australian soil to support national carbon accounting and monitoring under climate change. *Global Change Biology* 20, 2953–2970.

Walsh, D., Russell-Smith, J., Cowley, R., 2014. Fire and carbon management in a diversified rangelands economy: research, policy and implementation challenges for northern Australia. *RANGELAND JOURNAL* 36, 313–322. <https://doi.org/10.1071/RJ13122>

Weerasinghe, L.K., Creek, D., Crous, K.Y., Xiang, S., Liddell, M.J., Turnbull, M.H., Atkin, O.K., 2014. Canopy position affects the relationships between leaf respiration and associated traits in a tropical rainforest in Far North Queensland. *Tree Physiol.* 34, 564–584. <https://doi.org/10.1093/treephys/tpu016>

Werner, C., Reiser, K., Dannenmann, M., Hutley, L.B., Jacobbeit, J., Butterbach-Bahl, K., 2014. N<sub>2</sub>O, NO, N-2 and CO<sub>2</sub> emissions from tropical savanna and grassland of northern Australia: an incubation experiment with intact soil cores. *Biogeosciences* 11, 6047–6065. <https://doi.org/10.5194/bg-11-6047-2014>

Whitehead, P.J., Russell-Smith, J., Yates, C., 2014. Fire patterns in north Australian savannas: extending the reach of incentives for savanna fire emissions abatement. *RANGELAND JOURNAL* 36, 371–388. <https://doi.org/10.1071/RJ13129>

Wood, C., Cook, P.G., Harrington, G.A., Meredith, K., Kipfer, R., 2014. Factors affecting carbon-14 activity of unsaturated zone CO<sub>2</sub> and implications for groundwater dating. *Journal of Hydrology* 519, Part A, 465–475. <https://doi.org/10.1016/j.jhydrol.2014.07.034>

Yip, S.J.S., Dickman, C.R., Denny, E.A., Cronin, G.M., 2014. Diet of the feral cat, *Felis catus*, in central Australian grassland habitats: do cat attributes influence what they eat? *ACTA THERIOLOGICA* 59, 263–270. <https://doi.org/10.1007/s13364-013-0166-5>

Yuan, Wenping, Cai, W., Liu, S., Dong, W., Chen, J., Arain, M.A., Blanken, P.D., Cescatti, A., Wohlfahrt, G., Georgiadis, T., Genesio, L., Ganelle, D., Grelle, A., Kiely, G., Knohl, A., Liu, D., Marek, M.V., Merbold, L., Montagnani, L., Panferov, O., Peltoniemi, M., Rambal, S., Raschi, A., Varlagin, A., Xia, J., 2014a. Vegetation-specific model parameters are not required for estimating gross primary production. *ECOLOGICAL MODELLING* 292, 1–10. <https://doi.org/10.1016/j.ecolmodel.2014.08.017>

Yuan, Wenping, Cai, W., Xia, J., Chen, J., Liu, S., Dong, W., Merbold, L., Law, B., Arain, A., Beringer, J., Bernhofer, C., Black, A., Blanken, P.D., Cescatti, A., Chen, Y., Francois, L., Ganelle, D., Janssens, I.A., Jung, M., Kato, T., Kiely, G., Liu, D., Marcolla, B., Montagnani, L., Raschi, A., Roupsard, O., Varlagin, A., Wohlfahrt, G., 2014b. Global comparison of light use efficiency models for simulating terrestrial vegetation gross primary production based on the La Thuile database. *AGRICULTURAL AND FOREST METEOROLOGY* 192, 108–120. <https://doi.org/10.1016/j.agrformet.2014.03.007>

Yuan, W., Cai, W., Xia, J., Chen, J., Liu, S., Dong, W., Merbold, L., Law, B., Arain, A., Beringer, J., Bernhofer, C., Black, A., Blanken, P.D., Cescatti, A., Chen, Y., Francois, L., Ganelle, D., Janssens, I.A., Jung, M., Kato, T., Kiely, G., Liu, D., Marcolla, B., Montagnani, L., Raschi, A., Roupsard, O., Varlagin, A., Wohlfahrt, G., 2014. Global comparison of light use efficiency models for simulating terrestrial vegetation gross primary production based on the LaThuile database. *Agricultural and Forest Meteorology* 192–193, 108–120.

---

## 2013

---

Anderson, A.S., Storlie, C.J., Shoo, L.P., Pearson, R.G., Williams, S.E., 2013. Current Analogues of Future Climate Indicate the Likely Response of a Sensitive Montane Tropical Avifauna to a Warming World. PLOS ONE 8. <https://doi.org/10.1371/journal.pone.0069393>

Anson, J.R., Dickman, C.R., Boonstra, R., Jessop, T.S., 2013. Stress Triangle: Do Introduced Predators Exert Indirect Costs on Native Predators and Prey? PLOS ONE 8. <https://doi.org/10.1371/journal.pone.0060916>

Banks, S.C., Lindenmayer, D.B., Wood, J.T., McBurney, L., Blair, D., Blyton, M.D.J., 2013. Can Individual and Social Patterns of Resource Use Buffer Animal Populations against Resource Decline? PLOS ONE 8. <https://doi.org/10.1371/journal.pone.0053672>

Bennison, K., Dickman, C.R., Godfree, R., 2013. Habitat use and ecological observations of the Ooldea dunnart (*Sminthopsis ooldea*) at Uluru-Kata Tjuta National Park, Northern Territory. AUSTRALIAN MAMMALOGY 35, 175–179. <https://doi.org/10.1071/AM12048>

Beringer, J., Livesley, S.J., Randle, J., Hutley, L.B., 2013. Carbon dioxide fluxes dominate the greenhouse gas exchanges of a seasonal wetland in the wet-dry tropics of northern Australia. Agricultural and Forest Meteorology 182–183, 239–247. <https://doi.org/10.1016/j.agrformet.2013.06.008>

Bowman, D., Brienen, R.J.W., Gloor, E., Phillips, O.L., Prior, L.D., 2013. Detecting trends in tree growth: not so simple. Trends Plant Sci. 18, 11–17. <https://doi.org/10.1016/j.tplants.2012.08.005>

Bowman, D.M.J.S., Murphy, B.P., Boer, M.M., Bradstock, R.A., Cary, G.J., Cochrane, M.A., Fensham, R.J., Krawchuk, M.A., Price, O.F., Williams, R.J., 2013. Forest fire management, climate change, and the risk of catastrophic carbon losses. FRONTIERS IN ECOLOGY AND THE ENVIRONMENT 11, 66–68. <https://doi.org/10.1890/13.WB.005>

Bradshaw, C.J.A., Bowman, D.M.J.S., Bond, N.R., Murphy, B.P., Moore, A.D., Fordham, D.A., Thackway, R., Lawes, M.J., McCallum, H., Gregory, S.D., Dalal, R.C., Boer, M.M., Lynch, A.J.J., Bradstock, R.A., Brook, B.W., Henry, B.K., Hunt, L.P., Fisher, D.O., Hunter, D., Johnson, C.N., Keith, D.A., Lefroy, E.C., Penman, T.D., Meyer, W.S., Thomson, J.R., Thornton, C.M., VanDerWal, J., Williams, R.J., Keniger, L., Specht, A., 2013. Brave new green world - Consequences of a carbon economy for the conservation of Australian biodiversity. BIOLOGICAL CONSERVATION 161, 71–90. <https://doi.org/10.1016/j.biocon.2013.02.012>

Breed, M. F., Ottewell, K.M., Gardner, M.G., Marklund, M.H.K., Dormontt, E.E., Lowe, A.J., 2013. Mating patterns and pollinator mobility are critical traits in forest fragmentation genetics. Heredity 115, 108–114. <https://doi.org/10.1038/hdy.2013.48>

Breed, Martin F., Stead, M.G., Ottewell, K.M., Gardner, M.G., Lowe, A.J., 2013. Which provenance and where? Seed sourcing strategies for revegetation in a changing environment. Conservation Genetics 14, 1–10. <https://doi.org/10.1007/s10592-012-0425-z>

Bryan, B.A., Meyer, W.S., Campbell, C.A., Harris, G.P., Lefroy, T., Lyle, G., Martin, P., McLean, J., Montagu, K., Rickards, L.A., Summers, D.M., Thackway, R., Wells, S., Young, M., 2013. The second industrial transformation of Australian landscapes. CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY 5, 278–287. <https://doi.org/10.1016/j.cosust.2013.05.011>

Burrows, R.M., Fellman, J.B., Magierowski, R.H., Barmuta, L.A., 2013. Allochthonous dissolved organic matter controls bacterial carbon production in old-growth and clearfelled headwater streams. FRESHWATER SCIENCE 32, 821–836. <https://doi.org/10.1899/12-163.1>

Camac, J.S., Williams, R.J., Wahren, C.-H., Morris, W.K., Morgan, J.W., 2013. Post-fire regeneration in alpine heathland: Does fire severity matter? *AUSTRAL ECOLOGY* 38, 199–207. <https://doi.org/10.1111/j.1442-9993.2012.02392.x>

Campos, G.E.P., Moran, M.S., Huete, A., Zhang, Y., Bresloff, C., Huxman, T.E., Eamus, D., Bosch, D.D., Buda, A.R., Gunter, S.A., Scalley, T.H., Kitchen, S.G., McClaran, M.P., McNab, W.H., Montoya, D.S., Morgan, J.A., Peters, D.P.C., Sadler, E.J., Seyfried, M.S., Starks, P.J., 2013. Ecosystem resilience despite large-scale altered hydroclimatic conditions. *NATURE* 494, 349–352. <https://doi.org/10.1038/nature11836>

Cleugh, H., 2013. Preface for the special issue on water and carbon coupling to honour Dr Ray Leuning. *Agricultural and Forest Meteorology* 182–183, 189–190. <https://doi.org/10.1016/j.agrformet.2013.08.009>

Cleverly, J., Boulain, N., Villalobos-Vega, R., Grant, N., Faux, R., Wood, C., Cook, P.G., Yu, Q., Leigh, A., Eamus, D., 2013a. Dynamics of component carbon fluxes in a semi-arid Acacia woodland, central Australia. *Journal of Geophysical Research-Biogeosciences* 118, 1168–1185. <https://doi.org/10.1002/jgrg.20101>

Cleverly, J., Chen, C., Boulain, N., Villalobos-Vega, R., Faux, R., Grant, N., Yu, Q., Eamus, D., 2013b. Aerodynamic resistance and Penman-Monteith evapotranspiration over a seasonally two-layered canopy in semiarid central Australia. *Journal of Hydrometeorology* 14, 1562–1570. <https://doi.org/10.1175/jhm-d-13-080.1>

Cooper, W.E., 2013. A taxonomic revision of *Garcinia* L. (Clusiaceae) in Australia, including four new species from tropical Queensland. *Austrobaileya* 9, 1–29.

Dale, A., Vella, K., Pressey, R.L., Brodie, J., Yorkston, H., Potts, R., 2013. A method for risk analysis across governance systems: a Great Barrier Reef case study. *ENVIRONMENTAL RESEARCH LETTERS* 8. <https://doi.org/10.1088/1748-9326/8/1/015037>

Dexter, N., Hudson, M., James, S., MacGregor, C., Lindenmayer, D.B., 2013. Unintended Consequences of Invasive Predator Control in an Australian Forest: Overabundant Wallabies and Vegetation Change. *PLOS ONE* 8. <https://doi.org/10.1371/journal.pone.0069087>

Dickman, C.R., 2013a. Long-haul research: Benefits for conserving and managing biodiversity. *Pacific Conservation Biology* 19, 10–17. <https://doi.org/10.1071/PC130010>

Dickman, C.R., 2013b. Human community ecology: Making connections for Conservation. *Pacific Conservation Biology* 19, 312–319. <https://doi.org/10.1071/PC130312>

Driscoll, D.A., Banks, S.C., Barton, P.S., Lindenmayer, D.B., Smith, A.L., 2013. Conceptual domain of the matrix in fragmented landscapes. *TRENDS IN ECOLOGY & EVOLUTION* 28, 605–613. <https://doi.org/10.1016/j.tree.2013.06.010>

D'Souza, J.B., Whittington, A., Dickman, C.R., Leung, L.K.P., 2013. Perfect storm: Demographic responses of an irruptive desert mammal to prescribed burns following flooding rain. *AUSTRAL ECOLOGY* 38, 765–776. <https://doi.org/10.1111/aec.12086>

Eamus, D., Boulain, N., Cleverly, J., Breshears, D.D., 2013a. Global change-type drought-induced tree mortality: vapor pressure deficit is more important than temperature per se in causing decline in tree health. *Ecology and Evolution* 3, 2711–2729. <https://doi.org/10.1002/ece3.664>

Eamus, D., Cleverly, J., Boulain, N., Grant, N., Faux, R., Villalobos-Vega, R., 2013b. Carbon and water fluxes in an arid-zone Acacia savanna woodland: An analyses of seasonal patterns and responses to rainfall events. *Agricultural and Forest Meteorology* 182–183, 225–238. <https://doi.org/10.1016/j.agrformet.2013.04.020>

Edwards, A.C., Maier, S.W., Hutley, L.B., Williams, R.J., Russell-Smith, J., 2013. Spectral analysis of fire severity in north Australian tropical savannas. *Remote Sens. Environ.* 136, 56–65.  
<https://doi.org/10.1016/j.rse.2013.04.013>

Evans, B., Stone, C., Barber, P., 2013. Linking a decade of forest decline in the south-west of Western Australia to bioclimatic change. *AUSTRALIAN FORESTRY* 76, 164–172. <https://doi.org/10.1080/00049158.2013.844055>

Exbrayat, J.F., Pitman, A.J., Abramowitz, G., Wang, Y.P., 2013. Sensitivity of net ecosystem exchange and heterotrophic respiration to parameterization uncertainty. *Journal of Geophysical Research-Atmospheres* 118, 1640–1651. <https://doi.org/10.1029/2012jd018122>

Fisher, D.O., Dickman, C.R., Jones, M.E., Blomberg, S.P., 2013. Sperm competition drives the evolution of suicidal reproduction in mammals. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 110, 17910–17914. <https://doi.org/10.1073/pnas.1310691110>

Frank, A.S.K., Dickman, C.R., Wardle, G.M., Greenville, A.C., 2013. Interactions of Grazing History, Cattle Removal and Time since Rain Drive Divergent Short-Term Responses by Desert Biota. *PLOS ONE* 8.  
<https://doi.org/10.1371/journal.pone.0068466>

Free, C.L., Baxter, G.S., Dickman, C.R., Leung, L.K.P., 2013. Resource Pulses in Desert River Habitats: Productivity-Biodiversity Hotspots, or Mirages? *PLOS ONE* 8. <https://doi.org/10.1371/journal.pone.0072690>

Gorrod, E.J., Bedward, M., Keith, D.A., Ellis, M.V., 2013. Systematic underestimation resulting from measurement error in score-based ecological indices. *BIOLOGICAL CONSERVATION* 157, 266–276.  
<https://doi.org/10.1016/j.biocon.2012.09.002>

Gosper, C.R., Prober, S.M., Yates, C.J., 2013a. Multi-century changes in vegetation structure and fuel availability in fire-sensitive eucalypt woodlands. *FOREST ECOLOGY AND MANAGEMENT* 310, 102–109.  
<https://doi.org/10.1016/j.foreco.2013.08.005>

Gosper, C.R., Prober, S.M., Yates, C.J., Wiehl, G., 2013b. Estimating the time since fire of long-unburnt *Eucalyptus salubris* (Myrtaceae) stands in the Great Western Woodlands. *AUSTRALIAN JOURNAL OF BOTANY* 61, 11–21. <https://doi.org/10.1071/BT12212>

Gosper, C.R., Yates, C.J., Prober, S.M., 2013c. Floristic diversity in fire-sensitive eucalypt woodlands shows a ‘U’-shaped relationship with time since fire. *JOURNAL OF APPLIED ECOLOGY* 50, 1187–1196.  
<https://doi.org/10.1111/1365-2664.12120>

Greenville, A.C., Wardle, G.M., Dickman, C.R., 2013. Extreme rainfall events predict irruptions of rat plagues in central Australia. *AUSTRAL ECOLOGY* 38, 754–764. <https://doi.org/10.1111/aec.12033>

Guerin, G.R., Biffin, E., Lowe, A.J., 2013. Spatial modelling of species turnover identifies climate ecotones, climate change tipping points and vulnerable taxonomic groups. *Ecography* 36, 1086–1096.  
<https://doi.org/10.1111/j.1600-0587.2013.00215.x>

Guerin, G. R., Lowe, A.J., 2013. Systematic monitoring of heathy woodlands in a Mediterranean climate-a practical assessment of methods. *Environ. Monit. Assess.* 185, 3959–3975. <https://doi.org/10.1007/s10661-012-2842-3>

Guerin, Greg R., Lowe, A.J., 2013a. Multi-species distribution modelling highlights the Adelaide Geosyncline, South Australia, as an important continental-scale arid-zone refugium. *Austral Ecology* 38, 427–435.  
<https://doi.org/10.1111/j.1442-9993.2012.02425.x>

Guerin, Greg R., Lowe, A.J., 2013b. Leaf morphology shift: new data and analysis support climate link. *Biology Letters* 9. <https://doi.org/10.1098/rsbl.2012.0860>

Hanke, P.U., Dickman, C.R., 2013. Sniffing out the stakes: hair-snare for wild cats in arid environments. *WILDLIFE RESEARCH* 40, 45–51. <https://doi.org/10.1071/WR12210>

Haverd, V., Raupach, M.R., Briggs, P.R., Canadell, J.G., Davis, S.J., Law, R.M., Meyer, C.P., Peters, G.P., Pickett-Heaps, C., Sherman, B., 2013a. The Australian terrestrial carbon budget. *Biogeosciences* 10, 851–869. <https://doi.org/10.5194/bg-10-851-2013>

Haverd, V., Raupach, M.R., Briggs, P.R., Canadell, J.G., Isaac, P., Pickett-Heaps, C., Roxburgh, S.H., Van Gorsel, E., Viscarra Rossel, R.A., Wang, Z., 2013b. Multiple observation types reduce uncertainty in Australia's terrestrial carbon and water cycles. *Biogeosciences* 10, 2011–2040.

Haverd, Vanessa, Smith, B., Cook, G.D., Briggs, P.R., Nieradzik, L., Roxburgh, S.H., Liedloff, A., Meyer, C.P., Canadell, J.G., 2013. A stand-alone tree demography and landscape structure module for Earth system models. *GEOPHYSICAL RESEARCH LETTERS* 40, 5234–5239. <https://doi.org/10.1002/grl.50972>

Heinrich, I., Allen, K., 2013. Current Issues and Recent Advances in Australian Dendrochronology: Where to Next? *GEOGRAPHICAL RESEARCH* 51, 180–191. <https://doi.org/10.1111/j.1745-5871.2012.00786.x>

Hero, J.M., Castley, J.G., Butler, S.A., Lollback, G.W., 2013. Biomass estimation within an Australian eucalypt forest: Meso-scale spatial arrangement and the influence of sampling intensity. *For. Ecol. Manage.* 310, 547–554. <https://doi.org/10.1016/j.foreco.2013.08.062>

Hulvey, K.B., Hobbs, R.J., Standish, R.J., Lindenmayer, D.B., Lach, L., Perring, M.P., 2013. Benefits of tree mixes in carbon plantings. *NATURE CLIMATE CHANGE* 3, 869–874. <https://doi.org/10.1038/NCLIMATE1862>

Hutley, L.B., Evans, B.J., Beringer, J., Cook, G.D., Maier, S.M., Razon, E., 2013. Impacts of an extreme cyclone event on landscape-scale savanna fire, productivity and greenhouse gas emissions. *Environmental Research Letters* 8, 045023.

Jamali, H., Livesley, S.J., Hutley, L.B., Fest, B., Arndt, S.K., 2013. The relationships between termite mound CH<sub>4</sub>/CO<sub>2</sub> emissions and internal concentration ratios are species specific. *Biogeosciences* 10, 2229–2240. <https://doi.org/10.5194/bg-10-2229-2013>

Kahmen, A., Hoffmann, B., Schefuss, E., Arndt, S.K., Cernusak, L.A., West, J.B., Sachse, D., 2013a. Leaf water deuterium enrichment shapes leaf wax n-alkane δD values of angiosperm plants II: Observational evidence and global implications. *Geochim. Cosmochim. Acta* 111, 50–63. <https://doi.org/10.1016/j.gca.2012.09.004>

Kahmen, A., Schefuß, E., Sachse, D., 2013b. Leaf water deuterium enrichment shapes leaf wax n-alkane δD values of angiosperm plants I: Experimental evidence and mechanistic insights. *Geochimica et Cosmochimica Acta* 111, 39–49. <https://doi.org/10.1016/j.gca.2012.09.003>

Kanniah, Kasturi Devi, Beringer, J., Hutley, L., 2013. Exploring the link between clouds, radiation, and canopy productivity of tropical savannas. *Agricultural and Forest Meteorology* 182–183, 304–313. <https://doi.org/10.1016/j.agrformet.2013.06.010>

Kanniah, K. D., Beringer, J., Hutley, L.B., 2013. Response of savanna gross primary productivity to interannual variability in rainfall: Results of a remote sensing based light use efficiency model. *Progress in Physical Geography* 37, 642–663.

Keith, D.A., Rodriguez, J.P., Rodriguez-Clark, K.M., Nicholson, E., Aapala, K., Alonso, A., Asmussen, M., Bachman, S., Basset, A., Barrow, E.G., Benson, J.S., Bishop, M.J., Bonifacio, R., Brooks, T.M., Burgman, M.A., Comer, P.,

Comin, F.A., Essl, F., Faber-Langendoen, D., Fairweather, P.G., Holdaway, R.J., Jennings, M., Kingsford, R.T., Lester, R.E., Mac Nally, R., McCarthy, M.A., Moat, J., Oliveira-Miranda, M.A., Pisanu, P., Poulin, B., Regan, T.J., Riecken, U., Spalding, M.D., Zambrano-Martinez, S., 2013. Scientific Foundations for an IUCN Red List of Ecosystems. *PLOS ONE* 8. <https://doi.org/10.1371/journal.pone.0062111>

Kilinc, M., Beringer, J., Hutley, L.B., Tapper, N.J., McGuire, D.A., 2013. Carbon and water exchange of the world's tallest angiosperm forest. *Agricultural and Forest Meteorology* 182–183, 215–224. <https://doi.org/10.1016/j.agrformet.2013.07.003>

Koerber, G.R., Anderson, P.A., Seekamp, J.V., 2013. Morphology, physiology and AFLP markers validate that green box is a hybrid of *Eucalyptus largiflorens* and *E. gracilis* (Myrtaceae). *Aust. Syst. Bot.* 26, 156–166. <https://doi.org/10.1071/sb12034>

Kurina, O., Oliveira, S.S., 2013. The first *Cordyla* Meigen species (Diptera, Mycetophilidae) from continental Australia and Tasmania. *ZOOKEYS* 29–43. <https://doi.org/10.3897/zookeys.342.6045>

Kwok, R., 2013. Fieldwork: The great outdoors. *Nature* 503, 301–303. <https://doi.org/10.1038/nj7475-301a>

Lindenmayer, D., 2013. From biodiversity to bioperversity: From good science to poor environmental policy. *Pacific Conservation Biology* 19, 250–255. <https://doi.org/10.1071/PC130250>

Lindenmayer, D. B., Blair, D., McBurney, L., Banks, S.C., Stein, J.A.R., Hobbs, R.J., Likens, G.E., Franklin, J.F., 2013a. Principles and practices for biodiversity conservation and restoration forestry: A 30 year case study on the Victorian montane ash forests and the critically endangered Leadbeater's Possum. *Australian Zoologist* 36, 441–460. <https://doi.org/10.7882/AZ.2013.007>

Lindenmayer, D. B., Blanchard, W., McBurney, L., Blair, D., Banks, S.C., Driscoll, D., Smith, A.L., Gill, A.M., 2013b. Fire severity and landscape context effects on arboreal marsupials. *BIOLOGICAL CONSERVATION* 167, 137–148. <https://doi.org/10.1016/j.biocon.2013.07.028>

Lindenmayer, D.B., Cunningham, S.A., 2013. Six principles for managing forests as ecologically sustainable ecosystems. *LANDSCAPE ECOLOGY* 28, 1099–1110. <https://doi.org/10.1007/s10980-012-9720-9>

Lindenmayer, David B., Laurance, W.F., Franklin, J.F., 2013a. Old Trees: Large and Small Response. *SCIENCE* 339, 905. <https://doi.org/10.1126/science.339.6122.905-a>

Lindenmayer, D. B., Macgregor, C., Dexter, N., Fortescue, M., Cochrane, P., 2013c. Booderee National Park Management: Connecting science and management. *Ecological Management and Restoration* 14, 2–10. <https://doi.org/10.1111/emr.12027>

Lindenmayer, David B., Piggott, M.P., Wintle, B.A., 2013b. Counting the books while the library burns: why conservation monitoring programs need a plan for action. *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT* 11, 549–555. <https://doi.org/10.1890/120220>

Lindenmayer, D.B., Possingham, H.P., 2013. No Excuse for Habitat Destruction. *SCIENCE - Letters* 340, 680.

Lu, X., Wang, Y.-P., Ziehn, T., Dai, Y., 2013. An efficient method for global parameter sensitivity analysis and its applications to the Australian community land surface model (CABLE). *Agricultural and Forest Meteorology* 182–183, 292–303. <https://doi.org/10.1016/j.agrformet.2013.04.003>

Ma, X., Huete, A., Yu, Q., Restrepo Coupe, N., Davies, K., Broich, M., Ratana, P., Beringer, J., Hutley, L.B., Cleverly, J., Boulain, N., Eamus, D., 2013. Spatial patterns and temporal dynamics in savanna vegetation phenology across the North Australian Tropical Transect. *Remote Sensing of Environment* 139, 97–115. <https://doi.org/10.1016/j.rse.2013.07.030>

MacGregor, C.I., Wood, J.T., Dexter, N., Lindenmayer, D.B., 2013. Home range size and use by the long-nosed bandicoot (*Perameles nasuta*) following fire. AUSTRALIAN MAMMALOGY 35, 206–216.  
<https://doi.org/10.1071/AM12032>

Maier, S.W., Russell-Smith, J., Edwards, A.C., Yates, C., 2013. Sensitivity of the MODIS fire detection algorithm (MOD14) in the savanna region of the Northern Territory, Australia. ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING 76, 11–16. <https://doi.org/10.1016/j.isprsjprs.2012.11.005>

Marchant, B.P., Rossel, R.A.V., Webster, R., 2013. Fluctuations in method-of-moments variograms caused by clustered sampling and their elimination by declustering and residual maximum likelihood estimation. EUROPEAN JOURNAL OF SOIL SCIENCE 64, 401–409. <https://doi.org/10.1111/ejss.12029>

Maron, M., Grey, M.J., Catterall, C.P., Major, R.E., Oliver, D.L., Clarke, M.F., Loyn, R.H., Mac Nally, R., Davidson, I., Thomson, J.R., 2013. Avifaunal disarray due to a single despotic species. DIVERSITY AND DISTRIBUTIONS 19, 1468–1479. <https://doi.org/10.1111/ddi.12128>

Matthews, A., Ruykys, L., Ellis, B., FitzGibbon, S., Lunney, D., Crowther, M.S., Glen, A.S., Purcell, B., Moseby, K., Stott, J., Fletcher, D., Wimpenny, C., Allen, B.L., Van Bommel, L., Roberts, M., Davies, N., Green, K., Newsome, T., Ballard, G., Fleming, P., Dickman, C.R., Eberhart, A., Troy, S., McMahon, C., Wiggins, N., 2013. The success of GPS collar deployments on mammals in Australia. AUSTRALIAN MAMMALOGY 35, 65–83.  
<https://doi.org/10.1071/AM12021>

M'Baya, J., Blacket, M.J., Hoffmann, A.A., 2013. Genetic structure of carex species from the Australian alpine region along elevation gradients: Patterns of reproduction and gene flow. INTERNATIONAL JOURNAL OF PLANT SCIENCES 174, 189–199. <https://doi.org/10.1086/668793>

Medlyn, B.E., Duursma, R.A., De Kauwe, M.G., Prentice, I.C., 2013. The optimal stomatal response to atmospheric CO<sub>2</sub> concentration: Alternative solutions, alternative interpretations. Agricultural and Forest Meteorology 182–183, 200–203. <https://doi.org/10.1016/j.agrformet.2013.04.019>

Miura, T., Turner, J.P., Huete, A.R., 2013. Spectral Compatibility of the NDVI Across VIIRS, MODIS, and AVHRR: An Analysis of Atmospheric Effects Using EO-1 Hyperion. IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING 51, 1349–1359. <https://doi.org/10.1109/TGRS.2012.2224118>

Murphy, B.P., Bradstock, R.A., Boer, M.M., Carter, J., Cary, G.J., Cochrane, M.A., Fensham, R.J., Russell-Smith, J., Williamson, G.J., Bowman, D.M.J.S., 2013. Fire regimes of Australia: a pyrogeographic model system. JOURNAL OF BIOGEOGRAPHY 40, 1048–1058. <https://doi.org/10.1111/jbi.12065>

Murphy, H.T., Bradford, M.G., Dalongeville, A., Ford, A.J., Metcalfe, D.J., 2013. No evidence for long-term increases in biomass and stem density in the tropical rain forests of Australia. JOURNAL OF ECOLOGY 101, 1589–1597. <https://doi.org/10.1111/1365-2745.12163>

Nash, M.A., Griffin, P.C., Hoffmann, A.A., 2013. Inconsistent responses of alpine arthropod communities to experimental warming and thermal gradients. CLIMATE RESEARCH 55, 227–237.  
<https://doi.org/10.3354/cr01136>

Newsome, T.M., Ballard, G.-A., Dickman, C.R., Fleming, P.J.S., Howden, C., 2013a. Anthropogenic Resource Subsidies Determine Space Use by Australian Arid Zone Dingoes: An Improved Resource Selection Modelling Approach. PLOS ONE 8. <https://doi.org/10.1371/journal.pone.0063931>

Newsome, T.M., Ballard, G.-A., Dickman, C.R., Fleming, P.J.S., van de Ven, R., 2013b. Home range, activity and sociality of a top predator, the dingo: a test of the Resource Dispersion Hypothesis. ECOGRAPHY 36, 914–925.  
<https://doi.org/10.1111/j.1600-0587.2013.00056.x>

Newsome, T.M., Stephens, D., Ballard, G.-A., Dickman, C.R., Fleming, P.J.S., 2013c. Genetic profile of dingoes (*Canis lupus dingo*) and free-roaming domestic dogs (*C. l. familiaris*) in the Tanami Desert, Australia. *WILDLIFE RESEARCH* 40, 196–206. <https://doi.org/10.1071/WR12128>

O'Grady, A.P., Mitchell, P.J.M., Pinkard, E.A., Tissue, D.T., 2013. Thirsty roots and hungry leaves: unravelling the roles of carbon and water dynamics in tree mortality. *NEW PHYTOLOGIST* 200, 294–297.  
<https://doi.org/10.1111/nph.12451>

O'Halloran, L.R., Borer, E.T., Seabloom, E.W., MacDougall, A.S., Cleland, E.E., McCulley, R.L., Hobbie, S., Harpole, W.S., DeCrappeo, N.M., Chu, C.J., Bakker, J.D., Davies, K.F., Du, G.Z., Firn, J., Hagenah, N., Hofmockel, K.S., Knops, J.M.H., Li, W., Melbourne, B.A., Morgan, J.W., Orrock, J.L., Prober, S.M., Stevens, C.J., 2013. Regional contingencies in the relationship between aboveground biomass and litter in the world's grasslands. *PLoS ONE* 8, 9. <https://doi.org/10.1371/journal.pone.0054988>

Okin, G.S., Clarke, K.D., Lewis, M.M., 2013. Comparison of methods for estimation of absolute vegetation and soil fractional cover using MODIS normalized BRDF-adjusted reflectance data. *REMOTE SENSING OF ENVIRONMENT* 130, 266–279. <https://doi.org/10.1016/j.rse.2012.11.021>

Olson, M.E., Rosell, J.A., 2013. Vessel diameter—stem diameter scaling across woody angiosperms and the ecological causes of xylem vessel diameter variation. *New Phytol.* 197, 1204–1213.  
<https://doi.org/10.1111/nph.12097>

Pastro, L.A., Dickman, C.R., Letnic, M., 2013. Effects of wildfire, rainfall and region on desert lizard assemblages: the importance of multi-scale processes. *OECOLOGIA* 173, 603–614. <https://doi.org/10.1007/s00442-013-2642-7>

Pereoglou, F., Lindenmayer, D.B., Macgregor, C., Ford, F., Wood, J., Banks, S.C., 2013. Landscape genetics of an early successional specialist in a disturbance-prone environment. *MOLECULAR ECOLOGY* 22, 1267–1281.  
<https://doi.org/10.1111/mec.12172>

Perkins, G.C., Kutt, A.S., Vanderduys, E.P., Perry, J.J., 2013. Evaluating the costs and sampling adequacy of a vertebrate monitoring program. *Australian Zoologist* 36, 373–380. <https://doi.org/10.7882/AZ.2013.003>

Pharo, E.J., Meagher, D.A., Lindenmayer, D.B., 2013. Bryophyte persistence following major fire in eucalypt forest of southern Australia. *FOREST ECOLOGY AND MANAGEMENT* 296, 24–32.  
<https://doi.org/10.1016/j.foreco.2013.01.018>

Popic, T.J., Davila, Y.C., Wardle, G.M., 2013a. Evaluation of Common Methods for Sampling Invertebrate Pollinator Assemblages: Net Sampling Out-Perform Pan Traps. *PLOS ONE* 8.  
<https://doi.org/10.1371/journal.pone.0066665>

Popic, T.J., Wardle, G.M., Davila, Y.C., 2013b. Flower-visitor networks only partially predict the function of pollen transport by bees. *AUSTRAL ECOLOGY* 38, 76–86. <https://doi.org/10.1111/j.1442-9993.2012.02377.x>

Potgieter, A.B., Lawson, K., Huete, A.R., 2013. Determining crop acreage estimates for specific winter crops using shape attributes from sequential MODIS imagery. *INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION* 23, 254–263. <https://doi.org/10.1016/j.jag.2012.09.009>

Prevedello, J.A., Dickman, C.R., Vieira, M.V., Vieira, E.M., 2013. Population responses of small mammals to food supply and predators: a global meta-analysis. *JOURNAL OF ANIMAL ECOLOGY* 82, 927–936.  
<https://doi.org/10.1111/1365-2656.12072>

Raupach, M.R., Haverd, V., Briggs, P.R., 2013. Sensitivities of the Australian terrestrial water and carbon balances to climate change and variability. *Agricultural and Forest Meteorology* 182–183, 277–291.  
<https://doi.org/10.1016/j.agrformet.2013.06.017>

Ribe, R.G., Ford, R.M., Williams, K.J.H., 2013. Clearfell controversies and alternative timber harvest designs: How acceptability perceptions vary between Tasmania and the U.S. Pacific Northwest. *JOURNAL OF ENVIRONMENTAL MANAGEMENT* 114, 46–62. <https://doi.org/10.1016/j.jenvman.2012.09.029>

Ritchie, E.G., Bradshaw, C.J.A., Dickman, C.R., Hobbs, R., Johnson, C.N., Johnston, E.L., Laurance, W.F., Lindenmayer, D., McCarthy, M.A., Nimmo, D.G., Possingham, H.P., Pressey, R.L., Watson, D.M., Woinarski, J., 2013. Continental-Scale Governance and the Hastening of Loss of Australia's Biodiversity. *CONSERVATION BIOLOGY* 27, 1133–1135. <https://doi.org/10.1111/cobi.12189>

Roda, F., Liu, H., Wilkinson, M.J., Walter, G.M., James, M.E., Bernal, D.M., Melo, M.C., Lowe, A., Rieseberg, L.H., Prentis, P., Ortiz-Barrientos, D., 2013. CONVERGENCE AND DIVERGENCE DURING THE ADAPTATION TO SIMILAR ENVIRONMENTS BY AN AUSTRALIAN GROUNDSEL. *EVOLUTION* 67, 2515–2529.  
<https://doi.org/10.1111/evo.12136>

Seabloom, E.W., Borer, E.T., Buckley, Y., Cleland, E.E., Davies, K., Firn, J., Harpole, W.S., Hautier, Y., Lind, E., MacDougall, A., Orrock, J.L., Prober, S.M., Adler, P., Alberti, J., Anderson, T.M., Bakker, J.D., Biederman, L.A., Blumenthal, D., Brown, C.S., Brudvig, L.A., Caldeira, M., Chu, C.J., Crawley, M.J., Daleo, P., Damschen, E.I., D'Antonio, C.M., Decrappeo, N.M., Dickman, C.R., Du, G.Z., Fay, P.A., Frater, P., Gruner, D.S., Hagenah, N., Hector, A., Helm, A., Hillebrand, H., Hofmockel, K.S., Humphries, H.C., Iribarne, O., Jin, V.L., Kay, A., Kirkman, K.P., Klein, J.A., Knops, J.M.H., La Pierre, K.J., Ladwig, L.M., Lambrinos, J.G., Leakey, A.D.B., Li, Q., Li, W., McCulley, R., Melbourne, B., Mitchell, C.E., Moore, J.L., Morgan, J., Mortensen, B., O'Halloran, L.R., Partel, M., Pascual, J., Pyke, D.A., Risch, A.C., Salguero-Gomez, R., Sankaran, M., Schuetz, M., Simonsen, A., Smith, M., Stevens, C., Sullivan, L., Wardle, G.M., Wolkovich, E.M., Wragg, P.D., Wright, J., Yang, L., 2013. Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness? *Glob. Change Biol.* 19, 3677–3687. <https://doi.org/10.1111/gcb.12370>

Stephens, H.C., Schmuki, C., Burridge, C.P., O'Reilly-Wapstra, J.M., 2013. Habitat fragmentation in forests affects relatedness and spatial genetic structure of a native rodent, *Rattus lutreolus*. *Austral Ecol.* 38, 568–580.  
<https://doi.org/10.1111/aec.12001>

Stoy, P.C., Mauder, M., Foken, T., Marcolla, B., Boegh, E., Ibrom, A., Arain, M.A., Arneth, A., Aurela, M., Bernhofer, C., Cescatti, A., Dellwik, E., Duce, P., Gianelle, D., van Gorsel, E., Kiely, G., Knohl, A., Margolis, H., McCaughey, H., Merbold, L., Montagnani, L., Papale, D., Reichstein, M., Saunders, M., Serrano-Ortiz, P., Sottocornola, M., Spano, D., Vaccari, F., Varlagin, A., 2013. A data-driven analysis of energy balance closure across FLUXNET research sites: The role of landscape scale heterogeneity. *Agricultural and Forest Meteorology* 171–172, 137–152.

Tischler, M., Dickman, C.R., Wardle, G.M., 2013. Avian functional group responses to rainfall across four vegetation types in the Simpson Desert, central Australia. *AUSTRAL ECOLOGY* 38, 809–819.  
<https://doi.org/10.1111/aec.12065>

Torello-Raventos, M., Feldpausch, T.R., Veenendaal, E., Schrodt, F., Saiz, G., Domingues, T.F., Djagbletey, G., Ford, A., Kemp, J., Marimon, B.S., Marimon Junior, B.H., Lenza, E., Ratter, J.A., Maracahipes, L., Sasaki, D., Sonke, B., Zapfack, L., Taedoumg, H., Villarroel, D., Schwarz, M., Quesada, C.A., Ishida, F.Y., Nardoto, G.B., Affum-Baffoe, K., Arroyo, L., Bowman, D.M.J.S., Compaore, H., Davies, K., Diallo, A., Fyllas, N.M., Gilpin, M., Hien, F., Johnson, M., Killeen, T.J., Metcalfe, D., Miranda, H.S., Steininger, M., Thomson, J., Sykora, K., Mougin, E., Hiernaux, P., Bird, M.I., Grace, J., Lewis, S.L., Phillips, O.L., Lloyd, J., 2013. On the delineation of tropical vegetation types with an emphasis on forest/savanna transitions. *PLANT ECOLOGY & DIVERSITY* 6, 101–137.  
<https://doi.org/10.1080/17550874.2012.762812>

van Gorsel, E., Berni, J.A.J., Briggs, P., Cabello-Leblie, A., Chasmer, L., Cleugh, H.A., Hacker, J., Hantson, S., Haverd, V., Hughes, D., Hopkinson, C., Keith, H., Kljun, N., Leuning, R., Yebra, M., Zegelin, S., 2013. Primary and secondary effects of climate variability on net ecosystem carbon exchange in an evergreen Eucalyptus forest. Agricultural and Forest Meteorology 182–183, 248–256. <https://doi.org/10.1016/j.agrformet.2013.04.027>

Wahren, C.H., Camac, J.S., Jarrad, F.C., Williams, R.J., Papst, W.A., Hoffmann, A.A., 2013. Experimental warming and long-term vegetation dynamics in an alpine heathland. AUSTRALIAN JOURNAL OF BOTANY 61, 36–51. <https://doi.org/10.1071/BT12234>

Wardhaugh, C.W., Edwards, W., Stork, N.E., 2013. Variation in beetle community structure across five microhabitats in Australian tropical rainforest trees. INSECT CONSERVATION AND DIVERSITY 6, 463–472. <https://doi.org/10.1111/icad.12001>

Wardle, G.M., Pavey, C.R., Dickman, C.R., 2013. Greening of arid Australia: New insights from extreme years. Austral Ecol. 38, 731–740. <https://doi.org/10.1111/aec.12073>

Welsh, A.H., Lindenmayer, D.B., Donnelly, C.F., 2013. Fitting and Interpreting Occupancy Models. PLOS ONE 8. <https://doi.org/10.1371/journal.pone.0052015>

Woinarski, J.C.Z., Legge, S., 2013. The impacts of fire on birds in Australia's tropical savannas. EMU 113, 319–352. <https://doi.org/10.1071/MU12109>

Yebra, M., Van Dijk, A., Leuning, R., Huete, A., Guerschman, J.P., 2013. Evaluation of optical remote sensing to estimate actual evapotranspiration and canopy conductance. REMOTE SENSING OF ENVIRONMENT 129, 250–261. <https://doi.org/10.1016/j.rse.2012.11.004>

Youngentob, K.N., Likens, G.E., Williams, J.E., Lindenmayer, D.B., 2013. A survey of long-term terrestrial ecology studies in Australia. AUSTRAL ECOLOGY 38, 365–373. <https://doi.org/10.1111/j.1442-9993.2012.02421.x>

Zhou, S., Duursma, R.A., Medlyn, B.E., Kelly, J.W.G., Prentice, I.C., 2013. How should we model plant responses to drought? An analysis of stomatal and non-stomatal responses to water stress. Agricultural and Forest Meteorology 182–183, 204–214. <https://doi.org/10.1016/j.agrformet.2013.05.009>

---

## 2012

---

Abramowitz, G., 2012. Towards a public, standardized, diagnostic benchmarking system for land surface models. *GEOSCIENTIFIC MODEL DEVELOPMENT* 5, 819–827. <https://doi.org/10.5194/gmd-5-819-2012>

Abramowitz, G., Pouyanne, L., Ajami, H., 2012. On the information content of surface meteorology for downward atmospheric long-wave radiation synthesis. *GEOPHYSICAL RESEARCH LETTERS* 39. <https://doi.org/10.1029/2011GL050726>

Anderson, A.S., Reside, A.E., Vanderwal, J.J., Shoo, L.P., Pearson, R.G., Williams, S.E., 2012. Immigrants and refugees: the importance of dispersal in mediating biotic attrition under climate change. *GLOBAL CHANGE BIOLOGY* 18, 2126–2134. <https://doi.org/10.1111/j.1365-2486.2012.02683.x>

Banin, L., Feldpausch, T.R., Phillips, O.L., Baker, T.R., Lloyd, J., Affum-Baffoe, K., Arets, E.J.M.M., Berry, N.J., Bradford, M., Brienen, R.J.W., Davies, S., Drescher, M., Higuchi, N., Hilbert, D.W., Hladik, A., Iida, Y., Abu Salim, K., Kassim, A.R., King, D.A., Lopez-Gonzalez, G., Metcalfe, D., Nilus, R., Peh, K.S.H., Reitsma, J.M., Sonke, B., Taedoumg, H., Tan, S., White, L., Woell, H., Lewis, S.L., 2012. What controls tropical forest architecture? Testing environmental, structural and floristic drivers. *GLOBAL ECOLOGY AND BIogeOGRAPHY* 21, 1179–1190. <https://doi.org/10.1111/j.1466-8238.2012.00778.x>

Banks, S.C., Blyton, M.D.J., Blair, D., McBurney, L., Lindenmayer, D.B., 2012. Adaptive responses and disruptive effects: how major wildfire influences kinship-based social interactions in a forest marsupial. *MOLECULAR ECOLOGY* 21, 673–684. <https://doi.org/10.1111/j.1365-294X.2011.05282.x>

Bar-Ness, Y. D., Kirkpatrick, J.B., McQuillan, P.B., 2012. Crown structure differences and dynamics in 100-year-old and old-growth *Eucalyptus obliqua* trees. *AUSTRALIAN FORESTRY* 75, 120–129.

Bar-Ness, Yoav D., McQuillan, P.B., Whitman, M., Junker, R.R., Cracknell, M., Barrows, A., 2012. Sampling forest canopy arthropod biodiversity with three novel minimal-cost trap designs. *AUSTRALIAN JOURNAL OF ENTOMOLOGY* 51, 12–21. <https://doi.org/10.1111/j.1440-6055.2011.00836.x>

Beaulieu, F., 2012. Saproxyly in predatory mites? Mesostigmata in decaying log habitats versus litter in a wet eucalypt forest, Tasmania, Australia. *INTERNATIONAL JOURNAL OF ACAROLOGY* 38, 313–323. <https://doi.org/10.1080/01647954.2011.647072>

Blyton, M.D.J., Banks, S.C., Peakall, R., Lindenmayer, D.B., 2012. Using probability modelling and genetic parentage assignment to test the role of local mate availability in mating system variation. *MOLECULAR ECOLOGY* 21, 572–586. <https://doi.org/10.1111/j.1365-294X.2011.05252.x>

Breed, Martin F., Marklund, M.H.K., Ottewell, K.M., Gardner, M.G., Harris, J.B.C., Lowe, A.J., 2012. Pollen diversity matters: revealing the neglected effect of pollen diversity on fitness in fragmented landscapes. *Molecular Ecology* 21, 5955–5968. <https://doi.org/10.1111/mec.12056>

Breed, M. F., Ottewell, K.M., Gardner, M.G., Marklund, M.H.K., Stead, M.G., Harris, J.B.C., Lowe, A.J., 2012. Mating system and early viability resistance to habitat fragmentation in a bird-pollinated eucalypt. *Heredity* 115, 100. <https://doi.org/10.1038/hdy.2012.72>

Burrows, R.M., Magierowski, R.H., Fellman, J.B., Barmuta, L.A., 2012. Woody debris input and function in old-growth and clear-felled headwater streams. *FOREST ECOLOGY AND MANAGEMENT* 286, 73–80. <https://doi.org/10.1016/j.foreco.2012.08.038>

Caccamo, G., Chisholm, L.A., Bradstock, R.A., Puotinen, M.L., 2012a. Using remotely-sensed fuel connectivity patterns as a tool for fire danger monitoring. *GEOPHYSICAL RESEARCH LETTERS* 39. <https://doi.org/10.1029/2011GL050125>

Caccamo, G., Chisholm, L.A., Bradstock, R.A., Puotinen, M.L., Pippen, B.G., 2012b. Monitoring live fuel moisture content of heathland, shrubland and sclerophyll forest in south-eastern Australia using MODIS data. INTERNATIONAL JOURNAL OF WILDLAND FIRE 21, 257–269. <https://doi.org/10.1071/WF11024>

Dexter, N., Ramsey, D.S.L., MacGregor, C., Lindenmayer, D., 2012. Predicting Ecosystem Wide Impacts of Wallaby Management Using a Fuzzy Cognitive Map. ECOSYSTEMS 15, 1363–1379. <https://doi.org/10.1007/s10021-012-9590-7>

Elmendorf, S.C., Henry, G.H.R., Hollister, R.D., Bjork, R.G., Boulanger-Lapointe, N., Cooper, E.J., Cornelissen, J.H.C., Day, T.A., Dorrepaal, E., Elumeeva, T.G., Gill, M., Gould, W.A., Harte, J., Hik, D.S., Hofgaard, A., Johnson, D.R., Johnstone, J.F., Jónsdóttir, I.S., Jorgenson, J.C., Klanderud, K., Klein, J.A., Koh, S., Kudo, G., Lara, M., Levesque, E., Magnusson, B., May, J.L., Mercado-Díaz, J.A., Michelsen, A., Molau, U., Myers-Smith, I.H., Oberbauer, S.F., Onipchenko, V.G., Rixen, C., Schmidt, N.M., Shaver, G.R., Spasojevic, M.J., Porhallsdóttir, P.E., Tolvanen, A., Troxler, T., Tweedie, C.E., Villareal, S., Wahren, C.-H., Walker, X., Webber, P.J., Welker, J.M., Wipf, S., 2012. Plot-scale evidence of tundra vegetation change and links to recent summer warming. NATURE CLIMATE CHANGE 2, 453–457. <https://doi.org/10.1038/NCLIMATE1465>

Feldpausch, T.R., Lloyd, J., Lewis, S.L., Brienen, R.J.W., Gloor, M., Monteagudo Mendoza, A., Lopez-Gonzalez, G., Banin, L., Abu Salim, K., Affum-Baffoe, K., Alexiades, M., Almeida, S., Amaral, I., Andrade, A., Aragao, L.E.O.C., Araujo Murakami, A., Arends, E.J.M.M., Arroyo, L., Aymard, G.A., Baker, T.R., Banki, O.S., Berry, N.J., Cardozo, N., Chave, J., Comiskey, J.A., Alvarez, E., de Oliveira, A., Di Fiore, A., Djagbletey, G., Domingues, T.F., Erwin, T.L., Fearnside, P.M., Franca, M.B., Freitas, M.A., Higuchi, N., Honorio, E., Iida, Y., Jimenez, E., Kassim, A.R., Killeen, T.J., Laurance, W.F., Lovett, J.C., Malhi, Y., Marimon, B.S., Marimon-Junior, B.H., Lenza, E., Marshall, A.R., Mendoza, C., Metcalfe, D.J., Mitchard, E.T.A., Neill, D.A., Nelson, B.W., Nilus, R., Nogueira, E.M., Parada, A., Peh, K.S.H., Pena Cruz, A., Penuela, M.C., Pitman, N.C.A., Prieto, A., Quesada, C.A., Ramirez, F., Ramirez-Angulo, H., Reitsma, J.M., Rudas, A., Saiz, G., Salomao, R.P., Schwarz, M., Silva, N., Silva-Espejo, J.E., Silveira, M., Sonke, B., Stropp, J., Taedoumg, H.E., Tan, S., ter Steege, H., Terborgh, J., Torello-Raventos, M., van der Heijden, G.M.F., Vasquez, R., Vilanova, E., Vos, V.A., White, L., Willcock, S., Woell, H., Phillips, O.L., 2012. Tree height integrated into pantropical forest biomass estimates. BIOGEOSCIENCES 9, 3381–3403. <https://doi.org/10.5194/bg-9-3381-2012>

Fordham, D.A., Akcakaya, H.R., Araujo, M.B., Elith, J., Keith, D.A., Pearson, R., Auld, T.D., Mellin, C., Morgan, J.W., Regan, T.J., Tozer, M., Watts, M.J., White, M., Wintle, B.A., Yates, C., Brook, B.W., 2012. Plant extinction risk under climate change: are forecast range shifts alone a good indicator of species vulnerability to global warming? GLOBAL CHANGE BIOLOGY 18, 1357–1371. <https://doi.org/10.1111/j.1365-2486.2011.02614.x>

Fountain-Jones, N.M., McQuillan, P.B., Grove, S., 2012. Beetle communities associated with the tree fern Dicksonia antarctica Labill. in Tasmania. AUSTRALIAN JOURNAL OF ENTOMOLOGY 51, 154–165. <https://doi.org/10.1111/j.1440-6055.2011.00855.x>

Frank, A.S.K., Dickman, C.R., Wardle, G.M., 2012. Habitat use and behaviour of cattle in a heterogeneous desert environment in central Australia. Rangeland J. 34, 319–328. <https://doi.org/10.1071/rj12032>

Grace, J.B., Adler, P.B., Seabloom, E.W., Borer, E.T., Hillebrand, H., Hautier, Y., Hector, A., Harpole, W.S., O'Halloran, L.R., Anderson, T.M., Bakker, J.D., Brown, C.S., Buckley, Y.M., Collins, S.L., Cottingham, K.L., Crawley, M.J., Damschen, E.I., Davies, K.F., DeCrappeo, N.M., Fay, P.A., Firn, J., Gruner, D.S., Hagenah, N., Jin, V.L., Kirkman, K.P., Knops, J.M.H., La Pierre, K.J., Lambrinos, J.G., Melbourne, B.A., Mitchell, C.E., Moore, J.L., Morgan, J.W., Orrock, J.L., Prober, S.M., Stevens, C.J., Wragg, P.D., Yang, L.H., 2012. Response to Comments on "Productivity Is a Poor Predictor of Plant Species Richness." SCIENCE 335. <https://doi.org/10.1126/science.1214939>

Greenville, A.C., Wardle, G.M., Dickman, C.R., 2012. Extreme climatic events drive mammal irruptions: regression analysis of 100-year trends in desert rainfall and temperature. ECOLOGY AND EVOLUTION 2, 2645–2658. <https://doi.org/10.1002/ece3.377>

Griffin, P.C., Hoffmann, A.A., 2012. Mortality of Australian alpine grasses (*Poa* spp.) after drought: species differences and ecological patterns. *JOURNAL OF PLANT ECOLOGY* 5, 121–133.  
<https://doi.org/10.1093/jpe/rtr010>

Grover, S.P.P., Livesley, S.J., Hutley, L.B., Jamali, H., Fest, B., Beringer, J., Butterbach-Bahl, K., Arndt, S.K., 2012. Land use change and the impact on greenhouse gas exchange in north Australian savanna soils. *Biogeosciences* 9, 423–437. <https://doi.org/10.5194/bg-9-423-2012>

Gu, L.H., Massman, W.J., Leuning, R., Pallardy, S.G., Meyers, T., Hanson, P.J., Riggs, J.S., Hosman, K.P., Yang, B., 2012. The fundamental equation of eddy covariance and its application in flux measurements. *Agric. For. Meteorol.* 152, 135–148. <https://doi.org/10.1016/j.agrformet.2011.09.014>

Guerin, G.R., Wen, H., Lowe, A.J., 2012. Leaf morphology shift linked to climate change. *Biology Letters* 8, 882. <https://doi.org/10.1098/rsbl.2012.0458>

Gustafsson, L., Baker, S.C., Bauhus, J., Beese, W.J., Brodie, A., Kouki, J., Lindenmayer, D.B., Lohmus, A., Martinez Pastur, G., Messier, C., Neyland, M., Palik, B., Sverdrup-Thygeson, A., Volney, W.J.A., Wayne, A., Franklin, J.F., 2012. Retention Forestry to Maintain Multifunctional Forests: A World Perspective. *BIOSCIENCE* 62, 633–645. <https://doi.org/10.1525/bio.2012.62.7.6>

Haverd, V., Lovell, J.L., Cuntz, M., Jupp, D.L.B., Newnham, G.J., Sea, W., 2012. The Canopy Semi-analytic P-gap And Radiative Transfer (CanSPART) model: Formulation and application. *AGRICULTURAL AND FOREST METEOROLOGY* 160, 14–35. <https://doi.org/10.1016/j.agrformet.2012.01.018>

Hindrum, L., Hovenden, M.J., Neyland, M.G., Baker, S.C., 2012. The effects of mechanical disturbance and burn intensity on the floristic composition of two-year old aggregated retention coupes in Tasmanian wet eucalypt forests. *FOREST ECOLOGY AND MANAGEMENT* 279, 55–65. <https://doi.org/10.1016/j.foreco.2012.05.003>

Huete, A.R., 2012. Vegetation Indices, Remote Sensing and Forest Monitoring. *Geography Compass* 6, 513–532. <https://doi.org/10.1111/j.1749-8198.2012.00507.x>

Kanniah, K.D., Beringer, J., North, P., Hutley, L., 2012. Control of atmospheric particles on diffuse radiation and terrestrial plant productivity: A review. *Progress in Physical Geography* 36, 209–237. <https://doi.org/10.1177/0309133311434244>

Kantvilas, G., Jarman, S.J., 2012. Lichens and bryophytes in Tasmanian wet eucalypt forest: floristics, conservation and ecology. *PHYTOTAXA* 59, 1–31.

Keith, D.A., Tozer, M.G., 2012. The Influence of Fire, Herbivores and Rainfall on Vegetation Dynamics in the Mallee: a Long-term Experiment. *Proceedings of the Linnean Society of New South Wales* 134, A39–A54.

Keith, H., van Gorsel, E., Jacobsen, K.L., Cleugh, H.A., 2012. Dynamics of carbon exchange in a Eucalyptus forest in response to interacting disturbance factors. *Agric. For. Meteorol.* 153, 67–81. <https://doi.org/10.1016/j.agrformet.2011.07.019>

Kilinc, M., Beringer, J., Hutley, L.B., Haverd, V., Tapper, N., 2012. An analysis of the surface energy budget above the world's tallest angiosperm forest. *Agric. For. Meteorol.* 166, 23–31. <https://doi.org/10.1016/j.agrformet.2012.05.014>

Koerber, G.R., Hancock, T., 2012. Statistical associations between morphology, physiology and afp dna markers enable selection of a putative eucalypt hybrid able to tolerate salt affected floodplains. *Silvae Genetica* 61, 236–246.

Koerber, G.R., Seekamp, J.V., Anderson, P.A., Whalen, M.A., Tyerman, S.D., 2012. A putative hybrid of *Eucalyptus largiflorens* growing on salt- and drought-affected floodplains has reduced specific leaf area and leaf nitrogen. AUSTRALIAN JOURNAL OF BOTANY 60, 358–367. <https://doi.org/10.1071/BT12012>

Kutt, A.S., Perkins, G.C., Colman, N., Vanderduys, E.P., Perry, J.J., 2012a. Temporal variation in a savanna bird assemblage: what changes over 5 years? EMU 112, 32–38. <https://doi.org/10.1071/MU11054>

Kutt, A.S., Vanderduys, E.P., Ferguson, D., Mathieson, M., 2012b. Effect of small-scale woodland clearing and thinning on vertebrate fauna in a largely intact tropical savanna mosaic. WILDLIFE RESEARCH 39, 366–373. <https://doi.org/10.1071/WR11171>

Kutt, A.S., Vanderduys, E.P., O'Reagain, P., 2012c. Spatial and temporal effects of grazing management and rainfall on the vertebrate fauna of a tropical savanna. RANGELAND JOURNAL 34, 173–182. <https://doi.org/10.1071/RJ11049>

Kutt, A.S., Vanderduys, E.P., Perry, J.J., Perkins, G.C., 2012d. Do miners (*Manorina* spp.) affect bird assemblages in continuous savanna woodlands in north-eastern Australia? AUSTRAL ECOLOGY 37, 779–788. <https://doi.org/10.1111/j.1442-9993.2011.02338.x>

Kutt, A.S., Vanderduys, E.P., Perry, J.J., Perkins, G.C., Kemp, J.E., Bateman, B.L., Kanowski, J., Jensen, R., 2012e. Signals of change in tropical savanna woodland vertebrate fauna 5 years after cessation of livestock grazing. WILDLIFE RESEARCH 39, 386–396. <https://doi.org/10.1071/WR11137>

Letnic, M., Ritchie, E.G., Dickman, C.R., 2012. Top predators as biodiversity regulators: the dingo *Canis lupus dingo* as a case study. BIOLOGICAL REVIEWS 87, 390–413. <https://doi.org/10.1111/j.1469-185X.2011.00203.x>

Leuning, R., van Gorsel, E., Massman, W.J., Isaac, P.R., 2012. Reflections on the surface energy imbalance problem. Agric. For. Meteorol. 156, 65–74. <https://doi.org/10.1016/j.agrformet.2011.12.002>

Li, F., Jupp, D.L.B., Thankappan, M., Lymburner, L., Mueller, N., Lewis, A., Held, A., 2012. A physics-based atmospheric and BRDF correction for Landsat data over mountainous terrain. REMOTE SENSING OF ENVIRONMENT 124, 756–770. <https://doi.org/10.1016/j.rse.2012.06.018>

Li, L., Wang, Y.-P., Yu, Q., Pak, B., Eamus, D., Yan, J., van Gorsel, E., Baker, I.T., 2012. Improving the responses of the Australian community land surface model (CABLE) to seasonal drought. J. Geophys. Res. 117, G04002. <https://doi.org/10.1029/2012jg002038>

Likens, G.E., Lindenmayer, D.B., 2012. Integrating approaches leads to more effective conservation of biodiversity. BIODIVERSITY AND CONSERVATION 21, 3323–3341. <https://doi.org/10.1007/s10531-012-0364-5>

Lindenmayer, David B., Blanchard, W., McBurney, L., Blair, D., Banks, S., Likens, G.E., Franklin, J.F., Laurance, W.F., Stein, J.A.R., Gibbons, P., 2012a. Interacting Factors Driving a Major Loss of Large Trees with Cavities in a Forest Ecosystem. PLOS ONE 7. <https://doi.org/10.1371/journal.pone.0041864>

Lindenmayer, D. B., Franklin, J.F., Lohmus, A., Baker, S.C., Bauhus, J., Beese, W., Brodie, A., Kiehl, B., Kouki, J., Martinez Pastur, G., Messier, C., Neyland, M., Palik, B., Sverdrup-Thygeson, A., Volney, J., Wayne, A., Gustafsson, L., 2012. A major shift to the retention approach for forestry can help resolve some global forest sustainability issues. CONSERVATION LETTERS 5, 421–431. <https://doi.org/10.1111/j.1755-263X.2012.00257.x>

Lindenmayer, David B., Gibbons, P., Bourke, M., Burgman, M., Dickman, C.R., Ferrier, S., Fitzsimons, J., Freudenberger, D., Garnett, S.T., Groves, C., Hobbs, R.J., Kingsford, R.T., Krebs, C., Legge, S., Lowe, A.J., McLean, R., Montambault, J., Possingham, H., Radford, J., Robinson, D., Smallbone, L., Thomas, D., Varcoe, T., Vardon, M., Wardle, G., Woinarski, J., Zerger, A., 2012b. Improving biodiversity monitoring. Austral Ecology 37, 285–294. <https://doi.org/10.1111/j.1442-9993.2011.02314.x>

Lindenmayer, D.B., Laurance, W.F., 2012. A history of hubris - Cautionary lessons in ecologically sustainable forest management. *BIOLOGICAL CONSERVATION* 151, 11–16. <https://doi.org/10.1016/j.biocon.2011.10.032>

Lindenmayer, David B., Laurance, W.F., Franklin, J.F., 2012c. Global Decline in Large Old Trees. *SCIENCE* 338, 1305–1306. <https://doi.org/10.1126/science.1231070>

Lindenmayer, David B., Likens, G.E., Andersen, A., Bowman, D., Bull, C.M., Burns, E., Dickman, C.R., Hoffman, A.A., Keith, D.A., Liddell, M.J., Lowe, A.J., Metcalfe, D.J., Phinn, S.R., Russell-Smith, J., Thurgate, N., Wardle, G.M., 2012d. Value of long-term ecological studies. *Austral Ecology* 37, 745–757. <https://doi.org/10.1111/j.1442-9993.2011.02351.x>

Los, S.O., Rosette, J.A.B., Kljun, N., North, P.R.J., Chasmer, L., Suarez, J.C., Hopkinson, C., Hill, R.A., van Gorsel, E., Mahoney, C., Berni, J.A.J., 2012. Vegetation height and cover fraction between 60°A degrees S and 60°A degrees N from ICESat GLAS data. *GEOSCIENTIFIC MODEL DEVELOPMENT* 5, 413–432. <https://doi.org/10.5194/gmd-5-413-2012>

Lovell, J.L., Haverd, V., Jupp, D.L.B., Newnham, G.J., 2012. The Canopy Semi-analytic P-gap And Radiative Transfer (CanSPART) model: Validation using ground based lidar. *AGRICULTURAL AND FOREST METEOROLOGY* 158, 1–12. <https://doi.org/10.1016/j.agrformet.2012.01.020>

Luo, Y.Q., Randerson, J.T., Abramowitz, G., Bacour, C., Blyth, E., Carvalhais, N., Ciais, P., Dalmonech, D., Fisher, J.B., Fisher, R., Friedlingstein, P., Hibbard, K., Hoffman, F., Huntzinger, D., Jones, C.D., Koven, C., Lawrence, D., Li, D.J., Mahecha, M., Niu, S.L., Norby, R., Piao, S.L., Qi, X., Peylin, P., Prentice, I.C., Riley, W., Reichstein, M., Schwalm, C., Wang, Y.P., Xia, J.Y., Zaehle, S., Zhou, X.H., 2012. A framework for benchmarking land models. *BIOGEOSCIENCES* 9, 3857–3874. <https://doi.org/10.5194/bg-9-3857-2012>

Macfarlane, C., Ogden, G.N., 2012. Automated estimation of foliage cover in forest understorey from digital nadir images. *METHODS IN ECOLOGY AND EVOLUTION* 3, 405–415. <https://doi.org/10.1111/j.2041-210X.2011.00151.x>

Maron, M., Hobbs, R.J., Moilanen, A., Matthews, J.W., Christie, K., Gardner, T.A., Keith, D.A., Lindenmayer, D.B., McAlpine, C.A., 2012. Faustian bargains? Restoration realities in the context of biodiversity offset policies. *BIOLOGICAL CONSERVATION* 155, 141–148. <https://doi.org/10.1016/j.biocon.2012.06.003>

Mellick, R., Lowe, A., Allen, C., Hill, R.S., Rossetto, M., 2012. Palaeodistribution modelling and genetic evidence highlight differential post-glacial range shifts of a rain forest conifer distributed across a latitudinal gradient. *JOURNAL OF BIOGEOGRAPHY* 39, 2292–2302. <https://doi.org/10.1111/j.1365-2699.2012.02747.x>

Mellin, C., Parrott, L., Andrefouet, S., Bradshaw, C.J.A., MacNeil, M.A., Caley, M.J., 2012. Multi-scale marine biodiversity patterns inferred efficiently from habitat image processing. *ECOLOGICAL APPLICATIONS* 22, 792–803.

Nidumolu, U.B., Hayman, P.T., Howden, S.M., Alexander, B.M., 2012. Re-evaluating the margin of the South Australian grain belt in a changing climate. *CLIMATE RESEARCH* 51, 249–260. <https://doi.org/10.3354/cr01075>

Perry, J.J., Kutt, A.S., Perkins, G.C., Vanderduys, E.P., Colman, N.J., 2012. A bird survey method for Australian tropical savannas. *EMU* 112, 261–266. <https://doi.org/10.1071/MU12007>

Pfautsch, S., Macfarlane, C., Ebdon, N., Meder, R., 2012. Assessing sapwood depth and wood properties in Eucalyptus and Corymbia spp. using visual methods and near infrared spectroscopy (NIR). *TREES-STRUCTURE AND FUNCTION* 26, 963–974. <https://doi.org/10.1007/s00468-011-0674-3>

Prober, S.M., Thiele, K.R., Rundel, P.W., Yates, C.J., Berry, S.L., Byrne, M., Christidis, L., Gosper, C.R., Grierson, P.F., Lemson, K., Lyons, T., Macfarlane, C., O'Connor, M.H., Scott, J.K., Standish, R.J., Stock, W.D., van Etten,

E.J.B., Wardell-Johnson, G.W., Watson, A., 2012. Facilitating adaptation of biodiversity to climate change: a conceptual framework applied to the world's largest Mediterranean-climate woodland. *Clim. Change* 110, 227–248. <https://doi.org/10.1007/s10584-011-0092-y>

Rossel, R.A.V., Webster, R., 2012. Predicting soil properties from the Australian soil visible-near infrared spectroscopic database. *EUROPEAN JOURNAL OF SOIL SCIENCE* 63, 848–860. <https://doi.org/10.1111/j.1365-2389.2012.01495.x>

Russell-Smith, J., Edwards, A.C., Price, O.F., 2012a. Simplifying the savanna: the trajectory of fire-sensitive vegetation mosaics in northern Australia. *JOURNAL OF BIOGEOGRAPHY* 39, 1303–1317. <https://doi.org/10.1111/j.1365-2699.2012.02679.x>

Russell-Smith, J., Gardener, M.R., Brock, C., Brennan, K., Yates, C.P., Grace, B., 2012b. Fire persistence traits can be used to predict vegetation response to changing fire regimes at expansive landscape scales - an Australian example. *JOURNAL OF BIOGEOGRAPHY* 39, 1657–1668. <https://doi.org/10.1111/j.1365-2699.2012.02714.x>

Ryu, Y., Baldocchi, D.D., Black, T.A., Detto, M., Law, B.E., Leuning, R., Miyata, A., Reichstein, M., Vargas, R., Ammann, C., Beringer, J., Flanagan, L.B., Gu, L., Hutley, L.B., Kim, J., McCaughey, H., Moors, E.J., Rambal, S., Vesala, T., 2012a. On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums. *Agricultural and Forest Meteorology* 152, 212–222. <https://doi.org/10.1016/j.agrformet.2011.09.010>

Ryu, Y., Verfaillie, J., Macfarlane, C., Kobayashi, H., Sonnentag, O., Vargas, R., Ma, S., Baldocchi, D.D., 2012b. Continuous observation of tree leaf area index at ecosystem scale using upward-pointing digital cameras. *REMOTE SENSING OF ENVIRONMENT* 126, 116–125. <https://doi.org/10.1016/j.rse.2012.08.027>

Schoettker, B., Searle, R., Schmidt, M., Phinn, S., 2012. HIGH TEMPORAL FREQUENCY BIOPHYSICAL AND STRUCTURAL VEGETATION INFORMATION FROM MULTIPLE REMOTE SENSING SENSORS CAN SUPPORT MODELLING OF EVENT BASED HILLSLOPE EROSION IN QUEENSLAND, in: Shortis, M and Shimoda, H and Cho, K (Ed.), XXII ISPRS CONGRESS, TECHNICAL COMMISSION VIII, International Archives of the Photogrammetry Remote Sensing and Spatial Information Sciences. Int Soc Photogrammetry & Remote Sensing; Hexagon; ESRI; RMIT Univ, Sch Math Geospatial Sci, pp. 507–512.

Simmons, M.P., McKenna, M.J., Bacon, C.D., Yakobson, K., Cappa, J.J., Archer, R.H., Ford, A.J., 2012. Phylogeny of Celastraceae tribe Euonymeae inferred from morphological characters and nuclear and plastid genes. *MOLECULAR PHYLOGENETICS AND EVOLUTION* 62, 9–20. <https://doi.org/10.1016/j.ympev.2011.08.022>

Spies, T.A., Lindenmayer, D.B., Gill, A.M., Stephens, S.L., Agee, J.K., 2012. Challenges and a checklist for biodiversity conservation in fire-prone forests: Perspectives from the Pacific Northwest of USA and Southeastern Australia. *BIOLOGICAL CONSERVATION* 145, 5–14. <https://doi.org/10.1016/j.biocon.2011.09.008>

Stephens, H.C., Baker, S.C., Potts, B.M., Munk, S.A., Stephens, D., O'Reilly-Wapstra, J.M., 2012. Short-term responses of native rodents to aggregated retention in old growth wet Eucalyptus forests. *FOREST ECOLOGY AND MANAGEMENT* 267, 18–27. <https://doi.org/10.1016/j.foreco.2011.11.037>

Van Niel, T.G., McVicar, T.R., Roderick, M.L., van Dijk, A.I.J.M., Beringer, J., Hutley, L.B., van Gorsel, E., 2012. Upscaling latent heat flux for thermal remote sensing studies: Comparison of alternative approaches and correction of bias. *Journal of Hydrology* 468, 35–46. <https://doi.org/10.1016/j.jhydrol.2012.08.005>

Vanderduys, E.P., Kutt, A.S., 2012. Is the Asian house gecko, *Hemidactylus frenatus*, really a threat to Australia's biodiversity? *AUSTRALIAN JOURNAL OF ZOOLOGY* 60, 361–367. <https://doi.org/10.1071/ZO12077>

Vanderduys, E.P., Kutt, A.S., Kemp, J.E., 2012a. Upland savannas: The vertebrate fauna of largely unknown but significant habitat in north-eastern Queensland. *Australian Zoologist* 36, 59–74. <https://doi.org/10.7882/AZ.2012.007>

Vanderduys, E.P., Kutt, A.S., Perkins, G.C., 2012b. A significant range extension for the northern Australian gecko *Strophurus taeniatus*. *Australian Zoologist* 36, 20–21. <https://doi.org/10.7882/AZ.2012.003>

Vanderduys, E.P., Kutt, A.S., Perry, J.J., Perkins, G.C., 2012c. The composition of mixed-species bird flocks in northern Australian savannas. *EMU* 112, 218–226. <https://doi.org/10.1071/MU11041>

Venn, S., Pickering, C., Green, K., 2012. Short-term variation in species richness across an altitudinal gradient of alpine summits. *BIODIVERSITY AND CONSERVATION* 21, 3157–3186. <https://doi.org/10.1007/s10531-012-0359-2>

Wardhaugh, C.W., Stork, N.E., Edwards, W., 2012a. Feeding guild structure of beetles on Australian tropical rainforest trees reflects microhabitat resource availability. *JOURNAL OF ANIMAL ECOLOGY* 81, 1086–1094. <https://doi.org/10.1111/j.1365-2656.2012.01988.x>

Wardhaugh, C.W., Stork, N.E., Edwards, W., Grimbacher, P.S., 2012b. The Overlooked Biodiversity of Flower-Visiting Invertebrates. *PLOS ONE* 7. <https://doi.org/10.1371/journal.pone.0045796>

Westgate, M.J., Driscoll, D.A., Lindenmayer, D.B., 2012a. Can the intermediate disturbance hypothesis and information on species traits predict anuran responses to fire? *OIKOS* 121, 1516–1524. <https://doi.org/10.1111/j.1600-0706.2011.19863.x>

Westgate, M.J., Driscoll, D.A., Lindenmayer, D.B., 2012b. Limited influence of stream networks on the terrestrial movements of three wetland-dependent frog species. *BIOLOGICAL CONSERVATION* 153, 169–176. <https://doi.org/10.1016/j.biocon.2012.04.030>

Woinarski, J.C.Z., Fisher, A., Armstrong, M., Brennan, K., Griffiths, A.D., Hill, B., Choy, J.L., Milne, D., Stewart, A., Young, S., Ward, S., Winderlich, S., Ziembicki, M., 2012. Monitoring indicates greater resilience for birds than for mammals in Kakadu National Park, northern Australia. *WILDLIFE RESEARCH* 39, 397–407. <https://doi.org/10.1071/WR11213>

Youngentob, K.N., Renzullo, L.J., Held, A.A., Jia, X., Lindenmayer, D.B., Foley, W.J., 2012a. Using imaging spectroscopy to estimate integrated measures of foliage nutritional quality. *METHODS IN ECOLOGY AND EVOLUTION* 3, 416–426. <https://doi.org/10.1111/j.2041-210X.2011.00149.x>

Youngentob, K.N., Yoon, H.-J., Coggan, N., Lindenmayer, D.B., 2012b. Edge effects influence competition dynamics: A case study of four sympatric arboreal marsupials. *BIOLOGICAL CONSERVATION* 155, 68–76. <https://doi.org/10.1016/j.biocon.2012.05.015>

Zhang, Y., Leuning, R., Chiew, F.H.S., Wang, E., Zhang, L., Liu, C., Sun, F., Peel, M.C., Shen, Y., Jung, M., 2012. Decadal trends in evaporation from global energy and water balances. *Journal of Hydrometeorology* 13, 379–391. <https://doi.org/10.1175/jhm-d-11-012.1>

## 2011

---

Adler, P.B., Seabloom, E.W., Borer, E.T., Hillebrand, H., Hautier, Y., Hector, A., Harpole, W.S., O'Halloran, L.R., Grace, J.B., Anderson, T.M., Bakker, J.D., Biederman, L.A., Brown, C.S., Buckley, Y.M., Calabrese, L.B., Chu, C.J., Cleland, E.E., Collins, S.L., Cottingham, K.L., Crawley, M.J., Damschen, E.I., Davies, K.F., DeCrappeo, N.M., Fay, P.A., Firn, J., Frater, P., Gasarch, E.I., Gruner, D.S., Hagenah, N., Lambers, J.H.R., Humphries, H., Jin, V.L., Kay, A.D., Kirkman, K.P., Klein, J.A., Knops, J.M.H., La Pierre, K.J., Lambrinos, J.G., Li, W., MacDougall, A.S., McCulley, R.L., Melbourne, B.A., Mitchell, C.E., Moore, J.L., Morgan, J.W., Mortensen, B., Orrock, J.L., Prober, S.M., Pyke, D.A., Risch, A.C., Schuetz, M., Smith, M.D., Stevens, C.J., Sullivan, L.L., Wang, G., Wragg, P.D., Wright, J.P., Yang, L.H., 2011. Productivity Is a Poor Predictor of Plant Species Richness. *Science* 333, 1750–1753.

<https://doi.org/10.1126/science.1204498>

Banks, S.C., Dujardin, M., McBurney, L., Blair, D., Barker, M., Lindenmayer, D.B., 2011a. Starting points for small mammal population recovery after wildfire: recolonisation or residual populations? *OIKOS* 120, 26–37.

<https://doi.org/10.1111/j.1600-0706.2010.18765.x>

Banks, S.C., Knight, E.J., McBurney, L., Blair, D., Lindenmayer, D.B., 2011b. The Effects of Wildfire on Mortality and Resources for an Arboreal Marsupial: Resilience to Fire Events but Susceptibility to Fire Regime Change. *PLOS ONE* 6. <https://doi.org/10.1371/journal.pone.0022952>

Banks, S.C., Lindenmayer, D.B., McBurney, L., Blair, D., Knight, E.J., Blyton, M.D.J., 2011c. Kin selection in den sharing develops under limited availability of tree hollows for a forest marsupial. *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES* 278, 2768–2776. <https://doi.org/10.1098/rspb.2010.2657>

Bass, A.M., Bird, M.I., Liddell, M.J., Nelson, P.N., 2011. Fluvial dynamics of dissolved and particulate organic carbon during periodic discharge events in a steep tropical rainforest catchment. *LIMNOLOGY AND OCEANOGRAPHY* 56, 2282–2292. <https://doi.org/10.4319/lo.2011.56.6.2282>

Beringer, Jason, Hacker, J., Hutley, L.B., Leuning, R., Arndt, S.K., Amiri, R., Bannehr, L., Cernusak, L.A., Grover, S., Hensley, C., Hocking, D., Isaac, P., Jamali, H., Kanniah, K., Livesley, S., Neininger, B., U, K.T.P., Sea, W., Straten, D., Tapper, N., Weinmann, R., Wood, S., Zegelin, S., 2011. SPECIAL-SAVANNA PATTERNS OF ENERGY AND CARBON INTEGRATED ACROSS THE LANDSCAPE. *Bulletin of the American Meteorological Society* 92, 1467–+. <https://doi.org/10.1175/2011bams2948.1>

Beringer, J., Hutley, L.B., Hacker, J.M., Neininger, B., U, K.T.P., 2011. Patterns and processes of carbon, water and energy cycles across northern Australian landscapes: From point to region. *Agric. For. Meteorol.* 151, 1409–1416. <https://doi.org/10.1016/j.agrformet.2011.05.003>

Bonan, G.B., Lawrence, P.J., Oleson, K.W., Levis, S., Jung, M., Reichstein, M., Lawrence, D.M., Swenson, S.C., 2011. Improving canopy processes in the Community Land Model version 4 (CLM4) using global flux fields empirically inferred from FLUXNET data. *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES* 116. <https://doi.org/10.1029/2010JG001593>

Breed, M.F., Ottewell, K.M., Gardner, M.G., Lowe, A.J., 2011. Clarifying climate change adaptation responses for scattered trees in modified landscapes. *Journal of Applied Ecology* 48, 637–641. <https://doi.org/10.1111/j.1365-2664.2011.01969.x>

Caccamo, G., Chisholm, L.A., Bradstock, R.A., Puotinen, M.L., 2011. Assessing the sensitivity of MODIS to monitor drought in high biomass ecosystems. *REMOTE SENSING OF ENVIRONMENT* 115, 2626–2639. <https://doi.org/10.1016/j.rse.2011.05.018>

Cernusak, L.A., Hutley, L.B., Beringer, J., Holtum, J.A.M., Turner, B.L., 2011. Photosynthetic physiology of eucalypts along a sub-continental rainfall gradient in northern Australia. *Agric. For. Meteorol.* 151, 1462–1470. <https://doi.org/10.1016/j.agrformet.2011.01.006>

Choler, P., Sea, W., Leuning, R., 2011. A Benchmark Test for Ecohydrological Models of Interannual Variability of NDVI in Semi-arid Tropical Grasslands. *Ecosystems* 14, 183–197.

Coston, C., Ford, A., Cross, H., Crayn, D., Harrington, M., Lowe, A., 2011. Plant DNA Barcodes Can Accurately Estimate Species Richness in Poorly Known Floras. *PLOS ONE* 6. <https://doi.org/10.1371/journal.pone.0026841>

Cupples, J.B., Crowther, M.S., Story, G., Letnic, M., 2011. Dietary overlap and prey selectivity among sympatric carnivores: could dingoes suppress foxes through competition for prey? *JOURNAL OF MAMMALOGY* 92, 590–600. <https://doi.org/10.1644/10-MAMM-A-164.1>

Dickman, C.R., Greenville, A.C., Tamayo, B., Wardle, G.M., 2011. Spatial dynamics of small mammals in central Australian desert habitats: the role of drought refugia. *JOURNAL OF MAMMALOGY* 92, 1193–1209. <https://doi.org/10.1644/10-MAMM-S-329.1>

Feldpausch, T.R., Banin, L., Phillips, O.L., Baker, T.R., Lewis, S.L., Quesada, C.A., Affum-Baffoe, K., Arets, E.J.M.M., Berry, N.J., Bird, M., Brondizio, E.S., de Camargo, P., Chave, J., Djagbletey, G., Domingues, T.F., Drescher, M., Fearnside, P.M., Franca, M.B., Fyllas, N.M., Lopez-Gonzalez, G., Hladik, A., Higuchi, N., Hunter, M.O., Iida, Y., Salim, K.A., Kassim, A.R., Keller, M., Kemp, J., King, D.A., Lovett, J.C., Marimon, B.S., Marimon-Junior, B.H., Lenza, E., Marshall, A.R., Metcalfe, D.J., Mitchard, E.T.A., Moran, E.F., Nelson, B.W., Nilus, R., Nogueira, E.M., Palace, M., Patino, S., Peh, K.S.H., Raventos, M.T., Reitsma, J.M., Saiz, G., Schrot, F., Sonke, B., Taedoumg, H.E., Tan, S., White, L., Woell, H., Lloyd, J., 2011. Height-diameter allometry of tropical forest trees. *BIOGEOSCIENCES* 8, 1081–1106. <https://doi.org/10.5194/bg-8-1081-2011>

Firn, J., Moore, J.L., MacDougall, A.S., Borer, E.T., Seabloom, E.W., HilleRisLambers, J., Harpole, W.S., Cleland, E.E., Brown, C.S., Knops, J.M.H., Prober, S.M., Pyke, D.A., Farrell, K.A., Bakker, J.D., O'Halloran, L.R., Adler, P.B., Collins, S.L., D'Antonio, C.M., Crawley, M.J., Wolkovich, E.M., La Pierre, K.J., Melbourne, B.A., Hautier, Y., Morgan, J.W., Leakey, A.D.B., Kay, A., McCulley, R., Davies, K.F., Stevens, C.J., Chu, C.J., Holl, K.D., Klein, J.A., Fay, P.A., Hagenah, N., Kirkman, K.P., Buckley, Y.M., 2011. Abundance of introduced species at home predicts abundance away in herbaceous communities. *Ecol. Lett.* 14, 274–281. <https://doi.org/10.1111/j.1461-0248.2010.01584.x>

Glenn, E.P., Doody, T.M., Guerschman, J.P., Huete, A.R., King, E.A., McVicar, T.R., Van Dijk, A.I.J.M., Van Niel, T.G., Yebra, M., Zhang, Y., 2011. Actual evapotranspiration estimation by ground and remote sensing methods: the Australian experience. *Hydrological Processes* 25, 4103–4116.

Griffin, P.C., Robin, C., Hoffmann, A.A., 2011. A next-generation sequencing method for overcoming the multiple gene copy problem in polyploid phylogenetics, applied to Poa grasses. *BMC BIOLOGY* 9. <https://doi.org/10.1186/1741-7007-9-19>

Groenendijk, M., Dolman, A.J., van der Molen, M.K., Leuning, R., Arneth, A., Delpierre, N., Gash, J.H.C., Lindroth, A., Richardson, A.D., Verbeeck, H., Wohlfahrt, G., 2011. Assessing parameter variability in a photosynthesis model within and between plant functional types using global Fluxnet eddy covariance data. *Agric. For. Meteorol.* 151, 22–38. <https://doi.org/10.1016/j.agrformet.2010.08.013>

Grove, S.J., Forster, L., 2011a. A decade of change in the saproxylic beetle fauna of eucalypt logs in the Warra long-term log-decay experiment, Tasmania. 2. Log-size effects, succession, and the functional significance of rare species. *BIODIVERSITY AND CONSERVATION* 20, 2167–2188. <https://doi.org/10.1007/s10531-011-0080-6>

Grove, S.J., Forster, L., 2011b. A decade of change in the saproxylic beetle fauna of eucalypt logs in the Warra long-term log-decay experiment, Tasmania. 1. Description of the fauna and seasonality patterns. *BIODIVERSITY AND CONSERVATION* 20, 2149–2165. <https://doi.org/10.1007/s10531-011-0079-z>

Grove, S.J., Stamm, L., Wardlaw, T.J., 2011. How well does a log decay-class system capture the ecology of decomposition? - A case-study from Tasmanian Eucalyptus obliqua forest. *FOREST ECOLOGY AND MANAGEMENT* 262, 692–700. <https://doi.org/10.1016/j.foreco.2011.05.005>

Hilker, T., Coops, N.C., Hall, F.G., Nichol, C.J., Lyapustin, A., Black, T.A., Wulder, M.A., Leuning, R., Barr, A., Hollinger, D.Y., Munger, B., Tucker, C.J., 2011. Inferring terrestrial photosynthetic light use efficiency of temperate ecosystems from space. JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES 116. <https://doi.org/10.1029/2011JG001692>

Hutley, L.B., Beringer, J., Isaac, P.R., Hacker, J.M., Cernusak, L.A., 2011. A sub-continental scale living laboratory: Spatial patterns of savanna vegetation over a rainfall gradient in northern Australia. Agricultural and Forest Meteorology 151, 1417–1428. <https://doi.org/10.1016/j.agrformet.2011.03.002>

Jamali, H., Livesley, S.J., Dawes, T.Z., Cook, G.D., Hutley, L.B., Arndt, S.K., 2011a. Diurnal and seasonal variations in CH<sub>4</sub> flux from termite mounds in tropical savannas of the Northern Territory, Australia. Agricultural and Forest Meteorology 151, 1471–1479. <https://doi.org/10.1016/j.agrformet.2010.06.009>

Jamali, H., Livesley, S.J., Grover, S.P., Dawes, T.Z., Hutley, L.B., Cook, G.D., Arndt, S.K., 2011b. The Importance of Termites to the CH<sub>4</sub> Balance of a Tropical Savanna Woodland of Northern Australia. Ecosystems 14, 698–709. <https://doi.org/10.1007/s10021-011-9439-5>

Kanniah, K.D., Beringer, J., Hutley, L.B., 2011. Environmental controls on the spatial variability of savanna productivity in the Northern Territory, Australia. Agric. For. Meteorol. 151, 1429–1439. <https://doi.org/10.1016/j.agrformet.2011.06.009>

Kutt, A.S., Bateman, B.L., Vanderduys, E.P., 2011. Lizard diversity on a rainforest-savanna altitude gradient in north-eastern Australia. AUSTRALIAN JOURNAL OF ZOOLOGY 59, 86–94. <https://doi.org/10.1071/ZO11036>

Kutt, A.S., Fisher, A., 2011. Increased grazing and dominance of an exotic pasture (*Bothriochloa pertusa*) affects vertebrate fauna species composition, abundance and habitat in savanna woodland. RANGELAND JOURNAL 33, 49–58. <https://doi.org/10.1071/RJ10065>

Lawes, Michael J., Adie, H., Russell-Smith, J., Murphy, B., Midgley, J.J., 2011. How do small savanna trees avoid stem mortality by fire? The roles of stem diameter, height and bark thickness. ECOSPHERE 2. <https://doi.org/10.1890/ES10-00204.1>

Lawes, M. J., Murphy, B.P., Midgley, J.J., Russell-Smith, J., 2011. Are the eucalypt and non-eucalypt components of Australian tropical savannas independent? Oecologia 166, 229–239. <https://doi.org/10.1007/s00442-010-1829-4>

Letnic, M., Crowther, M.S., Dickman, C.R., Ritchie, E.G., 2011. Demonising the dingo: How much wild dogma is enough? Current Zoology 57, 668–670.

Letnic, Mike, Greenville, A., Denny, E., Dickman, C.R., Tischler, M., Gordon, C., Koch, F., 2011a. Does a top predator suppress the abundance of an invasive mesopredator at a continental scale? GLOBAL ECOLOGY AND BIOGEOGRAPHY 20, 343–353. <https://doi.org/10.1111/j.1466-8238.2010.00600.x>

Letnic, Mike, Story, P., Story, G., Field, J., Brown, O., Dickman, C.R., 2011b. Resource pulses, switching trophic control, and the dynamics of small mammal assemblages in arid Australia. JOURNAL OF MAMMALOGY 92, 1210–1222. <https://doi.org/10.1644/10-MAMM-S-229.1>

Likens, G.E., Lindenmayer, D.B., 2011. A strategic plan for an Australian Long-Term Environmental Monitoring Network. AUSTRAL ECOLOGY 36, 1–8. <https://doi.org/10.1111/j.1442-9993.2010.02179.x>

Lindenmayer, D.B., Cunningham, R.B., 2011. Longitudinal patterns in bird reporting rates in a threatened ecosystem: Is change regionally consistent? BIOLOGICAL CONSERVATION 144, 430–440. <https://doi.org/10.1016/j.biocon.2010.09.029>

Lindenmayer, David B., Hobbs, R.J., Likens, G.E., Krebs, C.J., Banks, S.C., 2011a. Newly discovered landscape traps produce regime shifts in wet forests. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 108, 15887–15891. <https://doi.org/10.1073/pnas.1110245108>

Lindenmayer, D.B., Likens, G.E., 2011a. Effective monitoring of agriculture. JOURNAL OF ENVIRONMENTAL MONITORING 13, 1559–1563. <https://doi.org/10.1039/c0em00691b>

Lindenmayer, D.B., Likens, G.E., 2011b. Direct Measurement Versus Surrogate Indicator Species for Evaluating Environmental Change and Biodiversity Loss. ECOSYSTEMS 14, 47–59. <https://doi.org/10.1007/s10021-010-9394-6>

Lindenmayer, David B., Likens, G.E., Haywood, A., Miezis, L., 2011b. Adaptive monitoring in the real world: proof of concept. TRENDS IN ECOLOGY & EVOLUTION 26, 641–646. <https://doi.org/10.1016/j.tree.2011.08.002>

Lindenmayer, D. B., Wood, J., McBurney, L., Michael, D., Crane, M., Macgregor, C., Montague-Drake, R., Gibbons, P., Banks, S.C., 2011a. Cross-sectional vs. longitudinal research: A case study of trees with hollows and marsupials in Australian forests. Ecological Monographs 81, 557–580.

Lindenmayer, D. B., Wood, J.T., McBurney, L., MacGregor, C., Youngentob, K., Banks, S.C., 2011b. How to make a common species rare: A case against conservation complacency. BIOLOGICAL CONSERVATION 144, 1663–1672. <https://doi.org/10.1016/j.biocon.2011.02.022>

Livesley, S.J., Grover, S., Hutley, L.B., Jamali, H., Butterbach-Bahl, K., Fest, B., Beringer, J., Arndt, S.K., 2011. Seasonal variation and fire effects on CH<sub>4</sub>, N<sub>2</sub>O and CO<sub>2</sub> exchange in savanna soils of northern Australia. Agricultural and Forest Meteorology 151, 1440–1452. <https://doi.org/10.1016/j.agrformet.2011.02.001>

Lowe, A.J., Cross, H.B., 2011. THE APPLICATION OF DNA METHODS TO TIMBER TRACKING AND ORIGIN VERIFICATION. IAWA JOURNAL 32, 251–262.

McDougall, K.L., Khuroo, A.A., Loope, L.L., Parks, C.G., Pauchard, A., Reshi, Z.A., Rushworth, I., Kueffer, C., 2011. Plant Invasions in Mountains: Global Lessons for Better Management. MOUNTAIN RESEARCH AND DEVELOPMENT 31, 380–387. <https://doi.org/10.1659/MRD-JOURNAL-D-11-00082.1>

Meserve, P.L., Dickman, C.R., Kelt, D.A., 2011. Small mammal community structure and dynamics in aridlands: overall patterns and contrasts with Southern Hemispheric systems. JOURNAL OF MAMMALOGY 92, 1155–1157. <https://doi.org/10.1644/11-MAMM-S-186.1>

Morton, S.R., Smith, D.M.S., Dickman, C.R., Dunkerley, D.L., Friedel, M.H., McAllister, R.R.J., Reid, J.R.W., Roshier, D.A., Smith, M.A., Walsh, F.J., Wardle, G.M., Watson, I.W., Westoby, M., 2011. A fresh framework for the ecology of arid Australia. J. Arid. Environ. 75, 313–329. <https://doi.org/10.1016/j.jaridenv.2010.11.001>

Mudge, P.L., Wallace, D.F., Rutledge, S., Campbell, D.I., Schipper, L.A., Hosking, C.L., 2011. Carbon balance of an intensively grazed temperate pasture in two climatically contrasting years. Agriculture Ecosystems & Environment 144, 271–280. <https://doi.org/10.1016/j.agee.2011.09.003>

Murphy, B.P., Williamson, G.J., Bowman, D.M.J.S., 2011. Fire regimes: moving from a fuzzy concept to geographic entity. NEW PHYTOLOGIST 192, 316–318. <https://doi.org/10.1111/j.1469-8137.2011.03893.x>

Namyatova, A.A., Elias, M., Cassis, G., 2011. A new genus and two new species of Orthotylinae (Hemiptera: Heteroptera: Miridae) from central Australia. Zootaxa 38–48.

Ottewell, K.M., Bickerton, D., Lowe, A.J., 2011. Can a seed bank provide demographic and genetic rescue in a declining population of the endangered shrub *Acacia pinguifolia*? CONSERVATION GENETICS 12, 669–678. <https://doi.org/10.1007/s10592-010-0173-x>

Pastro, L.A., Dickman, C.R., Letnic, M., 2011. Burning for biodiversity or burning biodiversity? Prescribed burn vs. wildfire impacts on plants, lizards, and mammals. *ECOLOGICAL APPLICATIONS* 21, 3238–3253.

Pereoglou, F., Macgregor, C., Banks, S.C., Ford, F., Wood, J., Lindenmayer, D.B., 2011. Refuge site selection by the eastern chestnut mouse in recently burnt heath. *WILDLIFE RESEARCH* 38, 290–298.  
<https://doi.org/10.1071/WR11007>

Regan, H.M., Keith, D.A., Regan, T.J., Tozer, M.G., Tootell, N., 2011. Fire management to combat disease: turning interactions between threats into conservation management. *OECOLOGIA* 167, 873–882.  
<https://doi.org/10.1007/s00442-011-2029-6>

Rossel, R.A.V., Chen, C., 2011. Digitally mapping the information content of visible-near infrared spectra of surficial Australian soils. *REMOTE SENSING OF ENVIRONMENT* 115, 1443–1455.  
<https://doi.org/10.1016/j.rse.2011.02.004>

Ryu, Y., Baldocchi, D.D., Kobayashi, H., van Ingen, C., Li, J., Black, T.A., Beringer, J., van Gorsel, E., Knohl, A., Law, B.E., Roupsard, O., 2011. Integration of MODIS land and atmosphere products with a coupled-process model to estimate gross primary productivity and evapotranspiration from 1 km to global scales. *GLOBAL BIOGEOCHEMICAL CYCLES* 25. <https://doi.org/10.1029/2011GB004053>

Sea, W.B., Choler, P., Beringer, J., Weinmann, R.A., Hutley, L.B., Leuning, R., 2011. Documenting improvement in leaf area index estimates from MODIS using hemispherical photos for Australian savannas. *Agric. For. Meteorol.* 151, 1453–1461. <https://doi.org/10.1016/j.agrformet.2010.12.006>

Sgrò, C.M., Lowe, A.J., Hoffmann, A.A., 2011. Building evolutionary resilience for conserving biodiversity under climate change. *Evolutionary Applications* 4, 326–337. <https://doi.org/10.1111/j.1752-4571.2010.00157.x>

Theimer, T.C., Gehring, C.A., Green, P.T., Connell, J.H., 2011. Terrestrial vertebrates alter seedling composition and richness but not diversity in an Australian tropical rain forest. *Ecology* 92, 1637–1647.  
<https://doi.org/10.1890/10-2231.1>

van Gorsel, E., Harman, I.N., Finnigan, J.J., Leuning, R., 2011. Decoupling of air flow above and in plant canopies and gravity waves affect micrometeorological estimates of net scalar exchange. *Agricultural and Forest Meteorology* 151, 927–933. <https://doi.org/10.1016/j.agrformet.2011.02.012>

Van Niel, T.G., McVicar, T.R., Roderick, M.L., van Dijk, A.I.J.M., Renzullo, L.J., van Gorsel, E., 2011. Correcting for systematic error in satellite-derived latent heat flux due to assumptions in temporal scaling: Assessment from flux tower observations. *JOURNAL OF HYDROLOGY* 409, 140–148. <https://doi.org/10.1016/j.jhydrol.2011.08.011>

Vanderduys, E.P., Kutt, A.S., Perry, J.J., 2011. Range extensions of two frogs, *Cyclorana cryptotis*, *Litoria electrica* and a reptile, *Rhynchoedura ornata* in Queensland. *Australian Zoologist* 35, 569–575.

Vinukollu, R.K., Wood, E.F., Ferguson, C.R., Fisher, J.B., 2011. Global estimates of evapotranspiration for climate studies using multi-sensor remote sensing data: Evaluation of three process-based approaches. *REMOTE SENSING OF ENVIRONMENT* 115, 801–823. <https://doi.org/10.1016/j.rse.2010.11.006>

Viscarra Rossel, R.A., 2011. Fine-resolution multiscale mapping of clay minerals in Australian soils measured with near infrared spectra. *Journal of Geophysical Research: Earth Surface* 116.  
<https://doi.org/10.1029/2011JF001977>

Wang, Y.P., Kowalczyk, E., Leuning, R., Abramowitz, G., Raupach, M.R., Pak, B., van Gorsel, E., Luhar, A., 2011. Diagnosing errors in a land surface model (CABLE) in the time and frequency domains. *J. Geophys. Res.* 116, G01034. <https://doi.org/10.1029/2010jg001385>

Weeks, A.R., Sgro, C.M., Young, A.G., Frankham, R., Mitchell, N.J., Miller, K.A., Byrne, M., Coates, D.J., Eldridge, M.D.B., Sunnucks, P., Breed, M.F., James, E.A., Hoffmann, A.A., 2011. Assessing the benefits and risks of translocations in changing environments: a genetic perspective. *EVOLUTIONARY APPLICATIONS* 4, 709–725.  
<https://doi.org/10.1111/j.1752-4571.2011.00192.x>

Whitley, R.J., Macinnis-Ng, C.M.O., Hutley, L.B., Beringer, J., Zeppel, M., Williams, M., Taylor, D., Eamus, D., 2011. Is productivity of mesic savannas light limited or water limited? Results of a simulation study. *Glob. Change Biol.* 17, 3130–3149. <https://doi.org/10.1111/j.1365-2486.2011.02425.x>

Woinarski, J.C.Z., Legge, S., Fitzsimons, J.A., Traill, B.J., Burbidge, A.A., Fisher, A., Firth, R.S.C., Gordon, I.J., Griffiths, A.D., Johnson, C.N., McKenzie, N.L., Palmer, C., Radford, I., Rankmore, B., Ritchie, E.G., Ward, S., Ziembicki, M., 2011. The disappearing mammal fauna of northern Australia: context, cause, and response. *CONSERVATION LETTERS* 4, 192–201. <https://doi.org/10.1111/j.1755-263X.2011.00164.x>

Youngentob, K.N., Roberts, D.A., Held, A.A., Dennison, P.E., Jia, X., Lindenmayer, D.B., 2011a. Mapping two *Eucalyptus* subgenera using multiple endmember spectral mixture analysis and continuum-removed imaging spectrometry data. *REMOTE SENSING OF ENVIRONMENT* 115, 1115–1128.  
<https://doi.org/10.1016/j.rse.2010.12.012>

Youngentob, K.N., Wallis, I.R., Lindenmayer, D.B., Wood, J.T., Pope, M.L., Foley, W.J., 2011b. Foliage Chemistry Influences Tree Choice and Landscape Use of a Gliding Marsupial Folivore. *JOURNAL OF CHEMICAL ECOLOGY* 37, 71–84. <https://doi.org/10.1007/s10886-010-9889-9>

---

## 2010

---

Agarwal, D.A., Humphrey, M., Beekwilder, N.F., Jackson, K.R., Goode, M.M., van Ingen, C., 2010. A data-centered collaboration portal to support global carbon-flux analysis. CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE 22, 2323–2334. <https://doi.org/10.1002/cpe.1600>

Aubinet, M., Feigenwinter, C., Heinesch, B., Bernhofer, C., Canepa, E., Lindroth, A., Montagnani, L., Rebmann, C., Sedlak, P., Van Gorsel, E., 2010. Direct advection measurements do not help to solve the night-time CO<sub>2</sub> closure problem: Evidence from three different forests. Agric. For. Meteorol. 150, 655–664.  
<https://doi.org/10.1016/j.agrformet.2010.01.016>

Banks, S.C., Dubach, J., Viggers, K.L., Lindenmayer, D.B., 2010. Adult survival and microsatellite diversity in possums: effects of major histocompatibility complex-linked microsatellite diversity but not multilocus inbreeding estimators. OECOLOGIA 162, 359–370. <https://doi.org/10.1007/s00442-009-1464-0>

Bateman, B.L., Kutt, A.S., Vanderduys, E.P., Kemp, J.E., 2010. Small-mammal species richness and abundance along a tropical altitudinal gradient: an Australian example. JOURNAL OF TROPICAL ECOLOGY 26, 139–149.  
<https://doi.org/10.1017/S0266467409990460>

Choler, P., Sea, W., Briggs, P., Raupach, M., Leuning, R., 2010. A simple ecohydrological model captures essentials of seasonal leaf dynamics in semi-arid tropical grasslands. Biogeosciences 7, 907–920.

Dickman, C.R., Greenville, A.C., Beh, C.-L., Tamayo, B., Wardle, G.M., 2010. Social organization and movements of desert rodents during population “booms” and “busts” in central Australia. JOURNAL OF MAMMALOGY 91, 798–810. <https://doi.org/10.1644/09-MAMM-S-205.1>

Gordon, Chris E., Dickman, C.R., Thompson, M.B., 2010. What factors allow opportunistic nocturnal activity in a primarily diurnal desert lizard (*Ctenotus pantherinus*)? COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY A-MOLECULAR & INTEGRATIVE PHYSIOLOGY 156, 255–261. <https://doi.org/10.1016/j.cbpa.2010.02.007>

Gordon, Christopher E., Dickman, C.R., Thompson, M.B., 2010. Partitioning of temporal activity among desert lizards in relation to prey availability and temperature. AUSTRAL ECOLOGY 35, 41–52.  
<https://doi.org/10.1111/j.1442-9993.2009.02010.x>

Haughland, D.L., Hero, J.-M., Schieck, J., Castley, J.G., Boutin, S., Solymos, P., Lawson, B.E., Holloway, G., Magnusson, W.E., 2010. Planning forwards: biodiversity research and monitoring systems for better management. TRENDS IN ECOLOGY & EVOLUTION 25, 199–200. <https://doi.org/10.1016/j.tree.2009.11.005>

Haverd, V., Cuntz, M., 2010. Soil-Litter-Iso: A one-dimensional model for coupled transport of heat, water and stable isotopes in soil with a litter layer and root extraction. J. Hydrol. 388, 438–455.  
<https://doi.org/10.1016/j.jhydrol.2010.05.029>

Hoffmann, A.A., Camac, J.S., Williams, R.J., Papst, W., Jarrad, F.C., Wahren, C.-H., 2010. Phenological changes in six Australian subalpine plants in response to experimental warming and year-to-year variation. JOURNAL OF ECOLOGY 98, 927–937. <https://doi.org/10.1111/j.1365-2745.2010.01667.x>

Kanniah, K.D., Beringer, J., Hutley, L.B., 2010a. The comparative role of key environmental factors in determining savanna productivity and carbon fluxes: A review, with special reference to Northern Australia. Progress in Physical Geography 34, 459–490.

Kanniah, K.D., Beringer, J., Tapper, N.J., Long, C.N., 2010b. Aerosols and their influence on radiation partitioning and savanna productivity in northern Australia. Theor. Appl. Climatol. 100, 423–438.  
<https://doi.org/10.1007/s00704-009-0192-z>

Keith, D.A., Rodoreda, S., Bedward, M., 2010. Decadal change in wetland-woodland boundaries during the late 20th century reflects climatic trends. *Glob. Change Biol.* 16, 2300–2306. <https://doi.org/10.1111/j.1365-2486.2009.02072.x>

Keith, H., Mackey, B., Berry, S., Lindenmayer, D., Gibbons, P., 2010. Estimating carbon carrying capacity in natural forest ecosystems across heterogeneous landscapes: addressing sources of error. *GLOBAL CHANGE BIOLOGY* 16, 2971–2989. <https://doi.org/10.1111/j.1365-2486.2009.02146.x>

Letnic, M., Dickman, C.R., 2010. Resource pulses and mammalian dynamics: conceptual models for hummock grasslands and other Australian desert habitats. *BIOLOGICAL REVIEWS* 85, 501–521. <https://doi.org/10.1111/j.1469-185X.2009.00113.x>

Li, F., Jupp, D.L.B., Reddy, S., Lymburner, L., Mueller, N., Tan, P., Islam, A., 2010. An Evaluation of the Use of Atmospheric and BRDF Correction to Standardize Landsat Data. *IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING* 3, 257–270. <https://doi.org/10.1109/JSTARS.2010.2042281>

Lindenmayer, D. B., Knight, E., McBurney, L., Michael, D., Banks, S.C., 2010a. Small mammals and retention islands: An experimental study of animal response to alternative logging practices. *FOREST ECOLOGY AND MANAGEMENT* 260, 2070–2078. <https://doi.org/10.1016/j.foreco.2010.08.047>

Lindenmayer, D.B., Likens, G.E., 2010a. The science and application of ecological monitoring. *BIOLOGICAL CONSERVATION* 143, 1317–1328. <https://doi.org/10.1016/j.biocon.2010.02.013>

Lindenmayer, D.B., Likens, G.E., 2010b. Improving ecological monitoring. *TRENDS IN ECOLOGY & EVOLUTION* 25, 200–201. <https://doi.org/10.1016/j.tree.2009.11.006>

Lindenmayer, David B., Likens, G.E., Franklin, J.F., 2010. Rapid responses to facilitate ecological discoveries from major disturbances. *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT* 8, 527–532. <https://doi.org/10.1890/090184>

Lindenmayer, D. B., Likens, G.E., Krebs, C.J., Hobbs, R.J., 2010b. Improved probability of detection of ecological “surprises.” *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 107, 21957–21962. <https://doi.org/10.1073/pnas.1015696107>

Lindenmayer, D.B., Wood, J.T., 2010. Long-term patterns in the decay, collapse, and abundance of trees with hollows in the mountain ash (*Eucalyptus regnans*) forests of Victoria, southeastern Australia. *CANADIAN JOURNAL OF FOREST RESEARCH-REVUE CANADIENNE DE RECHERCHE FORESTIERE* 40, 48–54. <https://doi.org/10.1139/X09-185>

Lindenmayer, D. B., Wood, J.T., McBurney, L., Michael, D., Crane, M., MacGregor, C., Montague-Drake, R., 2010c. Comparing bird species richness and assemblage composition between montane ash eucalypt forest and cool temperate rainforests - an empirical study from Victoria, south-eastern Australia. *EMU* 110, 109–117. <https://doi.org/10.1071/MU09074>

Lomov, B., Keith, D.A., Hochuli, D.F., 2010. Pollination and plant reproductive success in restored urban landscapes dominated by a pervasive exotic pollinator. *LANDSCAPE AND URBAN PLANNING* 96, 232–239. <https://doi.org/10.1016/j.landurbplan.2010.03.009>

Lucas, R., Armston, J., Fairfax, R., Fensham, R., Accad, A., Carreiras, J., Kelley, J., Bunting, P., Clewley, D., Bray, S., Metcalfe, D., Dwyer, J., Bowen, M., Eyre, T., Laidlaw, M., Shimada, M., 2010. An Evaluation of the ALOS PALSAR L-Band Backscatter-Above Ground Biomass Relationship Queensland, Australia: Impacts of Surface Moisture Condition and Vegetation Structure. *IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING* 3, 576–593. <https://doi.org/10.1109/JSTARS.2010.2086436>

Moriyama, T., 2010. Global Carbon Monitoring, in: International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science. Presented at the ISPRS Technical Commission VIII Symposium Networking the World with Remote Sensing, International Society for Photogrammetry and Remote Sensing, pp. 186–191.

Murphy, B.P., Russell-Smith, J., 2010. Fire severity in a northern Australian savanna landscape: the importance of time since previous fire. *INTERNATIONAL JOURNAL OF WILDLAND FIRE* 19, 46–51.  
<https://doi.org/10.1071/WF08202>

Murphy, B.P., Russell-Smith, J., Prior, L.D., 2010. Frequent fires reduce tree growth in northern Australian savannas: implications for tree demography and carbon sequestration. *GLOBAL CHANGE BIOLOGY* 16, 331–343.  
<https://doi.org/10.1111/j.1365-2486.2009.01933.x>

Nichols, P.W.B., Morris, E.C., Keith, D.A., 2010. Testing a facilitation model for ecosystem restoration: Does tree planting restore ground layer species in a grassy woodland? *AUSTRAL ECOLOGY* 35, 888–897.  
<https://doi.org/10.1111/j.1442-9993.2009.02095.x>

Rossel, R.A.V., Bui, E.N., de Caritat, P., McKenzie, N.J., 2010. Mapping iron oxides and the color of Australian soil using visible-near-infrared reflectance spectra. *JOURNAL OF GEOPHYSICAL RESEARCH-EARTH SURFACE* 115.  
<https://doi.org/10.1029/2009JF001645>

Russell-Smith, J., Price, O.F., Murphy, B.P., 2010. Managing the matrix: decadal responses of eucalypt-dominated savanna to ambient fire regimes. *ECOLOGICAL APPLICATIONS* 20, 1615–1632.  
<https://doi.org/10.1890/09-1553.1>

Salo, P., Banks, P.B., Dickman, C.R., Korpimaki, E., 2010. Predator manipulation experiments: impacts on populations of terrestrial vertebrate prey. *ECOLOGICAL MONOGRAPHS* 80, 531–546.  
<https://doi.org/10.1890/09-1260.1>

Saunders, G.R., Gentle, M.N., Dickman, C.R., 2010. The impacts and management of foxes *Vulpes vulpes* in Australia. *MAMMAL REVIEW* 40, 181–211. <https://doi.org/10.1111/j.1365-2907.2010.00159.x>

Schoettker, B., Phinn, S., Schmidt, M., 2010. How does the global Moderate Resolution Imaging Spectroradiometer (MODIS) Fraction of Photosynthetically Active Radiation (FPAR) product relate to regionally developed land cover and vegetation products in a semi-arid Australian savanna? *JOURNAL OF APPLIED REMOTE SENSING* 4. <https://doi.org/10.1117/1.3463721>

Venn, S.E., Morgan, J.W., 2010. Soil seedbank composition and dynamics across alpine summits in south-eastern Australia. *AUSTRALIAN JOURNAL OF BOTANY* 58, 349–362. <https://doi.org/10.1071/BT10058>

Woinarski, J.C.Z., Armstrong, M., Brennan, K., Fisher, A., Griffiths, A.D., Hill, B., Milne, D.J., Palmer, C., Ward, S., Watson, M., Winderlich, S., Young, S., 2010. Monitoring indicates rapid and severe decline of native small mammals in Kakadu National Park, northern Australia. *WILDLIFE RESEARCH* 37, 116–126.  
<https://doi.org/10.1071/WR09125>

Wood, S.W., Hua, Q., Allen, K.J., Bowman, D.M.J.S., 2010. Age and growth of a fire prone Tasmanian temperate old-growth forest stand dominated by *Eucalyptus regnans*, the world's tallest angiosperm. *Forest Ecology and Management* 260, 438–447. <https://doi.org/10.1016/j.foreco.2010.04.037>

Yi, C.X., Ricciuto, D., Li, R., Wolbeck, J., Xu, X.Y., Nilsson, M., Aires, L., Albertson, J.D., Ammann, C., Arain, M.A., de Araujo, A.C., Aubinet, M., Aurela, M., Barcza, Z., Barr, A., Berbigier, P., Beringer, J., Bernhofer, C., Black, A.T., Bolstad, P.V., Bosveld, F.C., Broadmeadow, M.S.J., Buchmann, N., Burns, S.P., Cellier, P., Chen, J.M., Chen, J.Q., Ciais, P., Clement, R., Cook, B.D., Curtis, P.S., Dail, D.B., Dellwik, E., Delpierre, N., Desai, A.R., Dore, S., Dragoni, D., Drake, B.G., Dufrene, E., Dunn, A., Elbers, J., Eugster, W., Falk, M., Feigenwinter, C., Flanagan, L.B., Foken, T., Frank, J., Fuhrer, J., Gianelle, D., Goldstein, A., Goulden, M., Granier, A., Grunwald, T., Gu, L., Guo, H.Q.,

Hammerle, A., Han, S.J., Hanan, N.P., Haszpra, L., Heinesch, B., Helfter, C., Hendriks, D., Hutley, L.B., Ibrom, A., Jacobs, C., Johansson, T., Jongen, M., Katul, G., Kiely, G., Klumpp, K., Knohl, A., Kolb, T., Kutsch, W.L., Lafleur, P., Laurila, T., Leuning, R., Lindroth, A., Liu, H.P., Loubet, B., Manca, G., Marek, M., Margolis, H.A., Martin, T.A., Massman, W.J., Matamala, R., Matteucci, G., McCaughey, H., Merbold, L., Meyers, T., Migliavacca, M., Miglietta, F., Misson, L., Moelder, M., Moncrieff, J., Monson, R.K., Montagnani, L., Montes-Helu, M., Moors, E., Moureaux, C., Mukelabai, M.M., Munger, J.W., Myklebust, M., Nagy, Z., Noormets, A., Oechel, W., Oren, R., Pallardy, S.G., Kyaw, T.P.U., Pereira, J.S., Pilegaard, K., Pinter, K., Pio, C., Pita, G., Powell, T.L., Rambal, S., Randerson, J.T., von Randow, C., Rebmann, C., Rinne, J., Rossi, F., Roulet, N., Ryel, R.J., Sagerfors, J., Saigusa, N., Sanz, M.J., Mugnozza, G.S., Schmid, H.P., Seufert, G., Siqueira, M., Soussana, J.F., Starr, G., Sutton, M.A., Tenhunen, J., Tuba, Z., Tuovinen, J.P., Valentini, R., Vogel, C.S., Wang, J.X., Wang, S.Q., Wang, W.G., Welp, L.R., Wen, X.F., Wharton, S., Wilkinson, M., Williams, C.A., Wohlfahrt, G., Yamamoto, S., Yu, G.R., Zampedri, R., Zhao, B., Zhao, X.Q., 2010. Climate control of terrestrial carbon exchange across biomes and continents. Environ. Res. Lett. 5. <https://doi.org/10.1088/1748-9326/5/3/034007>

Zhang, Y., Leuning, R., Hutley, L.B., Beringer, J., McHugh, I., Walker, J.P., 2010. Using long-term water balances to parameterize surface conductances and calculate evaporation at 0.05° spatial resolution. Water Resources Research 46, W05512. <https://doi.org/10.1029/2009wr008716>

---

## 2009

---

Asner, G.P., Martin, R.E., Ford, A.J., Metcalfe, D.J., Liddell, M.J., 2009. Leaf chemical and spectral diversity in Australian tropical forests. *ECOLOGICAL APPLICATIONS* 19, 236–253. <https://doi.org/10.1890/08-0023.1>

Baker, S.C., Grove, S.J., Forster, L., Bonham, K.J., Bashford, D., 2009. Short-term responses of ground-active beetles to alternative silvicultural systems in the Warra Silvicultural Systems Trial, Tasmania, Australia. *FOREST ECOLOGY AND MANAGEMENT* 258, 444–459. <https://doi.org/10.1016/j.foreco.2009.03.044>

Brown, M., Whitehead, D., Hunt, J.E., Clough, T.J., Arnold, G.C., Baisden, W.T., Sherlock, R.R., 2009. Regulation of soil surface respiration in a grazed pasture in New Zealand. *Agricultural and Forest Meteorology* 149, 205–213. <https://doi.org/10.1016/j.agrformet.2008.08.005>

Byars, S.G., Hoffmann, A.A., 2009. Lack of Strong Local Adaptation in the Alpine Forb *Craspedia lamicola* in Southeastern Australia. *INTERNATIONAL JOURNAL OF PLANT SCIENCES* 170, 906–917. <https://doi.org/10.1086/599238>

Byars, S.G., Parsons, Y., Hoffmann, A.A., 2009. Effect of altitude on the genetic structure of an Alpine grass, *Poa hiemata*. *ANNALS OF BOTANY* 103, 885–899. <https://doi.org/10.1093/aob/mcp018>

Duncan, F.D., Dickman, C.R., 2009. Respiratory strategies of tenebrionid beetles in arid Australia: does physiology beget nocturnality? *PHYSIOLOGICAL ENTOMOLOGY* 34, 52–60. <https://doi.org/10.1111/j.1365-3032.2008.00651.x>

Fest, B.J., Livesley, S.J., Drosler, M., van Gorsel, E., Arndt, S.K., 2009. Soil-atmosphere greenhouse gas exchange in a cool, temperate *Eucalyptus delegatensis* forest in south-eastern Australia. *Agricultural and Forest Meteorology* 149, 393–406. <https://doi.org/10.1016/j.agrformet.2008.09.007>

Franklin, J.F., Lindenmayer, D.B., 2009. Importance of matrix habitats in maintaining biological diversity. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 106, 349–350. <https://doi.org/10.1073/pnas.0812016105>

Gates, G.M., Ratkowsky, D.A., Grove, S.J., 2009. Aggregated retention and macrofungi: A case study from the Warra LTER site, Tasmania. *Tasforests* 18, 33–54.

Gorrod, E.J., Keith, D.A., 2009. Observer variation in field assessments of vegetation condition: Implications for biodiversity conservation. *Ecological Management and Restoration* 10, 31–40. <https://doi.org/10.1111/j.1442-8903.2009.00437.x>

Greenville, A.C., Dickman, C.R., 2009. Factors affecting habitat selection in a specialist fossorial skink. *Biological Journal of the Linnean Society* 97, 531–544. <https://doi.org/10.1111/j.1095-8312.2009.01241.x>

Greenville, A.C., Dickman, C.R., Wardle, G.M., Letnic, M., 2009. The fire history of an arid grassland: the influence of antecedent rainfall and ENSO. *INTERNATIONAL JOURNAL OF WILDLAND FIRE* 18, 631–639. <https://doi.org/10.1071/WF08093>

Grimbacher, P.S., Stork, N.E., 2009. Seasonality of a Diverse Beetle Assemblage Inhabiting Lowland Tropical Rain Forest in Australia. *BIOTROPICA* 41, 328–337. <https://doi.org/10.1111/j.1744-7429.2008.00477.x>

Guerschman, J.P., Van Dijk, A., Mattersdorf, G., Beringer, J., Hutley, L.B., Leuning, R., Pipunic, R.C., Sherman, B.S., 2009. Scaling of potential evapotranspiration with MODIS data reproduces flux observations and catchment water balance observations across Australia. *J. Hydrol.* 369, 107–119. <https://doi.org/10.1016/j.jhydrol.2009.02.013>

Hansen, B.D., Harley, D.K.P., Lindenmayer, D.B., Taylor, A.C., 2009. Population genetic analysis reveals a long-term decline of a threatened endemic Australian marsupial. *MOLECULAR ECOLOGY* 18, 3346–3362.  
<https://doi.org/10.1111/j.1365-294X.2009.04269.x>

Haverd, V., Leuning, R., Griffith, D., van Gorsel, E., Cuntz, M., 2009. The Turbulent Lagrangian Time Scale in Forest Canopies Constrained by Fluxes, Concentrations and Source Distributions. *Boundary-Layer Meteorology* 130, 209–228. <https://doi.org/10.1007/s10546-008-9344-4>

Hoffmann, A.A., Griffin, P.C., Macrauld, R.D., 2009. Morphological variation and floral abnormalities in a trigger plant across a narrow altitudinal gradient. *AUSTRAL ECOLOGY* 34, 780–792. <https://doi.org/10.1111/j.1442-9993.2009.01984.x>

Jarrad, F.C., Wahren, C.-H., Williams, R.J., Burgman, M.A., 2009. Subalpine plants show short-term positive growth responses to experimental warming and fire. *AUSTRALIAN JOURNAL OF BOTANY* 57, 465–473.  
<https://doi.org/10.1071/BT09050>

Keith, H., Leuning, R., Jacobsen, K.L., Cleugh, H.A., van Gorsel, E., Raison, R.J., Medlyn, B.E., Winters, A., Keitel, C., 2009. Multiple measurements constrain estimates of net carbon exchange by a Eucalyptus forest. *Agricultural and Forest Meteorology* 149, 535–558. <https://doi.org/10.1016/j.agrformet.2008.10.002>

Keith, Heather, Mackey, B.G., Lindenmayer, D.B., 2009. Re-evaluation of forest biomass carbon stocks and lessons from the world's most carbon-dense forests. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 106, 11635–11640. <https://doi.org/10.1073/pnas.0901970106>

Lehmann, C.E.R., Prior, L.D., Bowman, D.M.J.S., 2009. Decadal dynamics of tree cover in an australian tropical Savanna. *Austral Ecology* 34, 601–612. <https://doi.org/10.1111/j.1442-9993.2009.01964.x>

Letnic, M., Koch, F., Gordon, C., Crowther, M.S., Dickman, C.R., 2009. Keystone effects of an alien top-predator stem extinctions of native mammals. *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES* 276, 3249–3256. <https://doi.org/10.1098/rspb.2009.0574>

Lindenmayer, D., MacGregor, C., Brown, D., Montague-Drake, R., Crane, M., Michael, D., Lindenmayer, B., 2009. Lists of Species: Aves, Booderee National Park, Jervis Bay Territory, south-eastern Australia. Check List 5, 479–488. <https://doi.org/NA>

Lindenmayer, David B., 2009. Old forest, new perspectives-Insights from the Mountain Ash forests of the Central Highlands of Victoria, south-eastern Australia. *FOREST ECOLOGY AND MANAGEMENT* 258, 357–365. <https://doi.org/10.1016/j.foreco.2009.01.049>

Lindenmayer, D. B., 2009. Forest wildlife management and conservation. *Annals of the New York Academy of Sciences* 1162, 284–310. <https://doi.org/10.1111/j.1749-6632.2009.04148.x>

Lindenmayer, David B., Hunter, M.L., Burton, P.J., Gibbons, P., 2009a. Effects of logging on fire regimes in moist forests. *CONSERVATION LETTERS* 2, 271–277. <https://doi.org/10.1111/j.1755-263X.2009.00080.x>

Lindenmayer, D.B., Likens, G.E., 2009. Adaptive monitoring: a new paradigm for long-term research and monitoring. *TRENDS IN ECOLOGY & EVOLUTION* 24, 482–486. <https://doi.org/10.1016/j.tree.2009.03.005>

Lindenmayer, David B., MacGregor, C., Wood, J.T., Cunningham, R.B., Crane, M., Michael, D., Montague-Drake, R., Brown, D., Fortescue, M., Dexter, N., Hudson, M., Gill, A.M., 2009b. What factors influence rapid post-fire site re-occupancy? A case study of the endangered Eastern Bristlebird in eastern Australia. *INTERNATIONAL JOURNAL OF WILDLAND FIRE* 18, 84–95. <https://doi.org/10.1071/WF07048>

Lindenmayer, David B., Wood, J.T., MacGregor, C., 2009c. Do observer differences in bird detection affect inferences from large-scale ecological studies? *EMU* 109, 100–106. <https://doi.org/10.1071/MU08029>

Lindenmayer, D. B., Wood, J.T., Michael, D., Crane, M., MacGregor, C., Montague-Drake, R., McBurney, L., 2009. Are gullies best for biodiversity? An empirical examination of Australian wet forest types. *FOREST ECOLOGY AND MANAGEMENT* 258, 169–177. <https://doi.org/10.1016/j.foreco.2009.04.002>

Lomov, B., Keith, D.A., Hochuli, D.F., 2009. Linking ecological function to species composition in ecological restoration: Seed removal by ants in recreated woodland. *AUSTRAL ECOLOGY* 34, 751–760. <https://doi.org/10.1111/j.1442-9993.2009.01981.x>

Lowman, M., 2009. Canopy Walkways for Conservation: A Tropical Biologist's Panacea or Fuzzy Metrics to Justify Ecotourism. *BIOTROPICA* 41, 545–548. <https://doi.org/10.1111/j.1744-7429.2009.00562.x>

MacKenzie, B.D.E., Keith, D.A., 2009. Adaptive management in practice: Conservation of a threatened plant population. *Ecological Management and Restoration* 10, S129–S135. <https://doi.org/10.1111/j.1442-8903.2009.00462.x>

Neyland, M.G., Hickey, J.E., Edwards, L.G., 2009. Safety and productivity at the Warra silvicultural systems trial. *Tasforests* 18, 1–15.

Pauchard, A., Kueffer, C., Dietz, H., Daehler, C.C., Alexander, J., Edwards, P.J., Ramon Arevalo, J., Cavieres, L.A., Guisan, A., Haider, S., Jakobs, G., McDougall, K., Millar, C.I., Naylor, B.J., Parks, C.G., Rew, L.J., Seipel, T., 2009. Ain't no mountain high enough: plant invasions reaching new elevations. *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT* 7, 479–486. <https://doi.org/10.1890/080072>

Prior, L.D., Murphy, B.P., Russell-Smith, J., 2009. Environmental and demographic correlates of tree recruitment and mortality in north Australian savannas. *FOREST ECOLOGY AND MANAGEMENT* 257, 66–74. <https://doi.org/10.1016/j.foreco.2008.08.015>

Ratkowsky, D.A., Gates, G.M., 2009. Macrofungi in early stages of forest regeneration in Tasmania's southern forests. *Tasforests* 18, 55–66.

Rossetto, M., Crayn, D., Ford, A., Mellick, R., Sommerville, K., 2009. The influence of environment and life-history traits on the distribution of genes and individuals: a comparative study of 11 rainforest trees. *MOLECULAR ECOLOGY* 18, 1422–1438. <https://doi.org/10.1111/j.1365-294X.2009.04111.x>

Russell-Smith, J., Murphy, B.P., Meyer, C.P., Cooka, G.D., Maier, S., Edwards, A.C., Schatz, J., Brocklehurst, P., 2009. Improving estimates of savanna burning emissions for greenhouse accounting in northern Australia: limitations, challenges, applications. *INTERNATIONAL JOURNAL OF WILDLAND FIRE* 18, 1–18. <https://doi.org/10.1071/WF08009>

Schymanski, S.J., Sivapalan, M., Roderick, M.L., Hutley, L.B., Beringer, J., 2009. An optimality-based model of the dynamic feedbacks between natural vegetation and the water balance. *Water Resources Research* 45. <https://doi.org/10.1029/2008wr006841>

Suni, T., Sogacheva, L., Lauros, J., Hakola, H., Back, J., Kurten, T., Cleugh, H., van Gorsel, E., Briggs, P., Sevanto, S., Kulmala, M., 2009. Cold oceans enhance terrestrial new-particle formation in near-coastal forests. *Atmos. Chem. Phys.* 9, 8639–8650. <https://doi.org/10.5194/acp-9-8639-2009>

van Gorsel, E., Delpierre, N., Leuning, R., Black, A., Munger, J.W., Wofsy, S., Aubinet, M., Feigenwinter, C., Beringer, J., Bonal, D., Chen, B.Z., Chen, J.Q., Clement, R., Davis, K.J., Desai, A.R., Dragoni, D., Etzold, S., Grunwald, T., Gu, L.H., Heinesch, B., Hutyra, L.R., Jans, W.W.P., Kutsch, W., Law, B.E., Leclerc, M.Y., Mammarella, I., Montagnani, L., Noormets, A., Rebmann, C., Wharton, S., 2009. Estimating nocturnal ecosystem respiration

from the vertical turbulent flux and change in storage of CO<sub>2</sub>. *Agric. For. Meteorol.* 149, 1919–1930.  
<https://doi.org/10.1016/j.agrformet.2009.06.020>

Venn, S.E., Morgan, J.W., 2009. Patterns in alpine seedling emergence and establishment across a stress gradient of mountain summits in south-eastern Australia. *PLANT ECOLOGY & DIVERSITY* 2, 5–16.  
<https://doi.org/10.1080/17550870802691356>

Visser, R.L., Watson, J.E.M., Dickman, C.R., Southgate, R., Jenkins, D., Johnson, C.N., 2009a. A national framework for research on trophic regulation by the Dingo in Australia. *Pacific Conservation Biology* 15, 209–216. <https://doi.org/10.1071/PC090209>

Visser, R.L., Watson, J.E.M., Dickman, C.R., Southgate, R., Jenkins, D., Johnson, C.N., 2009b. Developing a national framework for dingo trophic regulation research in Australia: Outcomes of a national workshop. *Ecological Management and Restoration* 10, 168–170. <https://doi.org/10.1111/j.1442-8903.2009.00482.x>

Wardlaw, T., Grove, S., Hopkins, A., Yee, M., Harrison, K., Mohammed, C., 2009. The uniqueness of habitats in old eucalypts: Contrasting wood-decay fungi and saproxylic beetles of young and old eucalypts. *Tasforests* 18, 17–32.

Williams, M., Richardson, A.D., Reichstein, M., Stoy, P.C., Peylin, P., Verbeeck, H., Carvalhais, N., Jung, M., Hollinger, D.Y., Kattge, J., Leuning, R., Luo, Y., Tomelleri, E., Trudinger, C.M., Wang, Y.P., 2009. Improving land surface models with FLUXNET data. *Biogeosciences* 6, 1341–1359.

---