

SCIENCE COMMUNICATIONS

No. 52 (July 2022)

Biodiversity and Conservation Science Mission: The provision of up-to-date and scientifically sound information to uphold effective evidence-based conservation of biodiversity and sustainable natural resource management in Western Australia

Science Communications lists titles of publications, reports etc prepared by staff of Biodiversity Science and Conservation. This issue is for the period February 2022-July 2022.

If you require a copy of a **submitted** paper please contact the author. For nearly all other titles a PDF link is included. Any problems with access please contact library@dbca.wa.gov.au

Margaret Byrne
Executive Director

Journal Publications

Benkwitt CE, Carr P, Wilson SK, Graham NAJ (2022). Seabird diversity and biomass enhance cross-ecosystem nutrient subsidies. *Proceedings of the Royal Society B* **289**: 20220195 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081210/081210-289.001.pdf>

Browne NK, Cuttler M, Moon K, Morgan K, Ross CL, Castro-Sanguino C et al. [Evans RD] (2021). Predicting responses of geo-ecological carbonate reef systems to climate change: a conceptual model and review. *Oceanography and Marine Biology: an Annual Review* **59** 229-370 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081879/081879-59.001.pdf>

Davis RW, Hammer TA (2022). *Swainsona picta* (Fabaceae), a new species from the Yalgoo bioregion, Western Australia. *Swainsona* **36** 71-73 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081289/081289-36.001.pdf>

Duong HT, Mazanec R, McComb JA, Burgess T, Hardy GE St J (2022). Quambalaria shoot blight resistance in marri (*Corymbia calophylla*): genetic parameters and correlations between growth rate and blight resistance. *Tree Genetics and Genomics* **18**: 8 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081675/081675-18.001.pdf>

Edgeloe JM, Severn-Ellis AA, Bayer PE, Mehravi S, Breed MF, Krauss SL et al. [Sinclair EA] (2022). Extensive polyploid clonality was a successful strategy for seagrass to expand into a newly submerged environment. *Proceedings of the Royal Society of London Series B* **289** 1-10. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081210/081210-289.002.pdf>

Gibson L, Greatwich B, Dziminski M (2021). Monitoring, mapping and safeguarding Kimberley bilbies: wrap-up factsheet. 4 National Environmental Science Programme, Northern Australia Environmental Resources Hub, Canberra <https://library.dbca.wa.gov.au/FullTextFiles/159043.pdf>

Gosper CR, Percy-Bower J, Byrne M, Llorens TM, Yates CJ (2022). Distribution, biogeography and characteristics of the threatened and data-deficient flora in the Southwest Australian Floristic Region. *Diversity* **14**: 493 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081139/081139-14.001.pdf>

Hanford J, Papas P, Swapan P, Pinder A, VanderGragt M, Kelleway J (2022). Proceedings of the Fire in Wetlands Forum: a burning success: introduction to the proceedings. *Wetland Science & Practice* **40** 122 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/080940/080940-40.001.pdf>

Hardstaff LK, Sommerville KD, Funnekotter B, Bunn E, Offord CA, Mancera RL (2022). Myrtaceae in Australia: use of cryobiotechnologies for the conservation of a significant plant family under threats. *Plants* **11**: 1017 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081542/081542-11.001.pdf>

(Continued on page 2)

(Continued from page 1)

Keighery G, Keighery B (2022). Dioecy in *Tribulus suberosus* (Zygophyllaceae) and observations of pollination in related species. *Western Australian Naturalist* **32** 156-160 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/080202/080202-32.019.pdf>

Lamont BB, Miller BP, Enright NJ, Yan ZG (2022). Isolation and self-regulation processes in simulated postfire microsites promote plant species diversity. *Acta Oecologica* **114**: 103795 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081099/081099-114.001.pdf>

Moore HA, Dunlop JA, Jolly CJ, Kelly E, Woinarski JCZ, Ritchie EG et al. (2022). A brief history of the northern quoll (*Dasyurus hallucatus*): a systematic review. *Australian Mammalogy* **44** 185-207. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/080282/080282-44.003.pdf>

Mounsey CM, Stevens JC, Renton M, Dixon KW, Miller BP (2022). The influence of environmental drivers and restoration intervention methods on postmine restoration trajectories. *Restoration Ecology* **30** 1-13. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/080497/080497-30.001.pdf>

Parker CM, Percy-Bower JM (2022). Updates to Western Australia's vascular plant census for 2021. *Nuytsia* **33** 1-14 <https://library.dbca.wa.gov.au/Journals/080057/080057-33.001.pdf>

Rodríguez-Prieto C, Huisman JM, Lin S-M (2022). Molecular phylogeny of foliose *Halymenia* and *Austroepiphloea* (Halymeniaceae, Rhodophyta) from the Indo-Pacific, with the description of *Halymenia taiwanensis* sp. nov. *Phycologia* **61** 384-395. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081288/081288-61.001.pdf>

Rycken SJE, Warren KS, Yeap L, Donaldson R, Mawson P, Dawson R et al. (2022). Forest specialist species in the urban landscape: do different levels of urbanization affect the movements of forest red-tailed black cockatoos (*Calyptorhynchus banksii naso*)?. *Avian Conservation and Ecology* **17**: 11 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/082623/082623-17.001.pdf>

Severova EE, Rudall PJ, Macfarlane TD, Krasnova ED, Sokoloff DD (2022). Pollen in water of unstable salinity: evolution and function of dynamic apertures in monocot aquatics. *American Journal of Botany* **109** 500-513. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/080560/080560-190.001.pdf>

Shelton LRJ, Thiele KR (2022). *Drummondita billyacatting* (Rutaceae), a new, range-restricted species from Western Australia. *Nuytsia* **33** 19-27 <https://library.dbca.wa.gov.au/Journals/080057/080057-33.003.pdf>

Tangney R, Merritt DJ, Miller BP (2022). Environmental factors driving seed hydration status of soil seed banks and the implications for post-fire recruitment. *Frontiers in Plant Science* **12** 1-10. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081152/081152-12.001.pdf>

Verbeke BA, Lamit LJ, Lilleskov EA, Hodgkins SB, Basiliko N, Kane ES et al. [Rutherford J] (2022). Latitude, elevation and mean annual temperature predict peat organic matter chemistry at a global scale. *Global Biogeochemical Cycles* **36**: e2021GB007057 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/082619/082619-36.001.pdf>

Whelehan LM, Funnekotter B, Bunn E, Mancera RL (2022). Review: The case for studying mitochondrial function during plant cryopreservation. *Plant Science* **315**: 111134 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/082065/082065-315.001.pdf>

Williams AR (2022). *Austrostipa* (Poaceae) in Western Australia: new species, new records, keys, and character notes. *Nuytsia* **33** 39-101 <https://library.dbca.wa.gov.au/Journals/080057/080057-33.006.pdf>

(Continued on page 3)

(Continued from page 2)

Williamson SD, van Dongen R, Trotter L, Palmer R, Robinson TP (2022). Fishing for feral cats in a naturally fragmented rocky landscape using movement data. *Remote Sensing* **13**: 4925 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/082247/082247-13.004.pdf>

Wilson L, van Dongen R, Cowen S, Robinson TP (2022). Mapping restoration activities on Dirk Hartog Island using remotely piloted aircraft imagery. *Remote Sensing* **14**: 1402 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/082247/082247-14.001.pdf>

Wilson P, Pendoley K, Whiting SD, Pattiaratchi C, Meekan M, Thums M (2022). Response of turtle hatchlings to light emitting diodes at sea. *Marine and Freshwater Research* **73** 689-702. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/080327/080327-73.001.pdf>

Books/Chapters

Brown A (2021). *Orchids of the south-west*. 72 p. Dept. of Biodiversity, Conservation and Attractions, [Kensington, W.A.] Bush books

Douglas TK, Weston MA, Greenwell CN, Lilleyman A, Hamilton NA, Cherriman S et al. (2022). Research methods for birds. In *Wildlife Research in Australia : Practical and Applied Methods* (eds B Smith, H Waudby, C Alberthsen et al.) pp. 313-359. CSIRO Publishing, Collingwood, Vic. <https://library.dbca.wa.gov.au/secure/StaffOnly/200739.015.pdf>

Kendrick GA, Orth RJ, Sinclair EA, Statton J (2022). Effect of climate change on regeneration of seagrasses from seeds. In *Plant Regeneration From Seeds : A Global Warming Perspective* (eds C Baskin) pp. 275-283. Academic, London <https://library.dbca.wa.gov.au/secure/StaffOnly/200115/200115.020.pdf>

Ooi MKJ, Tangney R, Auld TD (2022). Fire and regeneration from seeds in a warming world, with emphasis on Australia. In *Plant Regeneration From Seeds : A Global Warming Perspective* (eds C Baskin) pp. 229-242. Academic <https://library.dbca.wa.gov.au/secure/StaffOnly/200115/200115.017.pdf>

Robinson R (2022). *Fungi of the south-west forests*. 72 p. Department of Biodiversity, Conservation and Attractions, [Kensington, W.A.] Bush books

Abstracts

Li P, Fanestil N, Lynn-Palevsky J, Jabaily R, Shepherd K (2022). Designing custom genetic loci to improve the phylogeny of *Dampiera* (Goodeniaceae). In *Evolution 2022, June 24- 28, Cleveland, Ohio, USA* 1 pp. <https://library.dbca.wa.gov.au/secure/StaffOnly/201610.pdf>

Whelehan L, Funnekotter B, Leahy G, Bunn E, Mancera RL (2021). Assessing plant metabolic rates during cryopreservation. In *Cryobiology* **103** pp. 169 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/082634/082634-103.001.pdf>

Reports/Chapters

Baker JD, Hoeksema SD (2022). Swan Canning Catchment data report January-December 2019: technical report. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 305 p. <https://library.dbca.wa.gov.au/FullTextFiles/927005.pdf>

Dziminski M (2022). 2021 annual report on the commercial harvest of kangaroos in Western Australia. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 32 p. <https://library.dbca.wa.gov.au/FullTextFiles/201312.pdf>

Elliott C, Lewandrowski W, Krauss S, Merritt D, Miller B, Stevens J (2022). *Tetratheca erubescens* translocation, final research report for Mineral Resources Limited, March 2021 to March 2022. Department of Biodiversity, Conservation and Attractions, Kings Park, W.A. 105 p. <https://library.dbca.wa.gov.au/FullTextFiles/200203.pdf>

Lavery T, Watson DJ, Charles R, Chuguna V, Cox R, Fiebig Q et al. [Pearson D](2021). Threats to Australia's rock-wallabies (*Petrogale* spp.) with key directions for effective monitoring: science for saving species, research findings factsheet, project 7.5. 6 p. National Environmental Science Programme, Threatened Species Recovery Hub, Canberra <https://library.dbca.wa.gov.au/FullTextFiles/202494.pdf>

(Continued from page 3)

Lewandrowski W, Tudor E, Tomlinson S, Stevens J (2022). Ecophysiological performance, plant water relations and niche characteristics of *Aluta quadrata*: annual report 1, March 2021-March 2022. Department of Biodiversity, Conservation and Attractions, West Perth 27 p. <https://library.dbca.wa.gov.au/FullTextFiles/200356.pdf>

McKinney M, Gibson L, Kark S (2021). Island invasions: prioritising surveillance for cane toads on Kimberley islands: science for saving species, research findings factsheet, project 4.2.5. 4 p. National Environmental Science Programme, Threatened Species Recovery Hub, Canberra <https://library.dbca.wa.gov.au/FullTextFiles/201737.pdf>

Northover A, Friend T, Hill S, Button T, Comer S, Courtenay J et al. [Ottewell K, Cowen S, Gibson L] (2022). Recovering Gilbert's potoroo (*Potorous gilbertii*): a review of progress and future directions. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 38 p. <https://library.dbca.wa.gov.au/FullTextFiles/201028.pdf>

Pinder A, McCaw L, McGrath G, Millar M, Miller B, Ruthrof K, Wayne A, Whitford K, Wills A, Byrne M (2021). Impact of silvicultural practices on biodiversity in forests used for timber production in Western Australia: a summary of new concepts and knowledge since 2011. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 53 p. <https://library.dbca.wa.gov.au/FullTextFiles/200413.pdf>

Sims C, Cowen S, Friend T, Comer S, Gibson Vega A, Garretson S, Gibson L (2022). Monitoring source populations of fauna for the Dirk Hartog Island National Park Ecological Restoration Project, 2021. Department of Biodiversity, Conservation and Attractions, Woodvale, W.A. 27 p. <https://library.dbca.wa.gov.au/FullTextFiles/200200.pdf>

Southwell D, Skroblin A, Moseby K, Southgate R, Rogers D, Copley P et al. [Dziminski MA] (2022). Designing a track-based monitoring program to detect changes in species occupancy in the deserts of South Australia: Arid Zone Monitoring Project. 9 p. National Environmental Science Programme, Threatened Species Recovery Hub, Canberra <https://library.dbca.wa.gov.au/FullTextFiles/202129.pdf>

van Dongen R, Ruscalleda Alvarez J, Sinclair K, Zdunic K, Rampant P (2021). Great Victoria Desert vegetation monitoring report 2020-21. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 21 p. <https://library.dbca.wa.gov.au/FullTextFiles/200198.pdf>

Wayne A, Maxwell M, Barrett A, Potts J (2022). A survey of ngwayir (western ringtail possum) in the Upper Warren, Western Australia, to inform a potential translocation to the Perup Sanctuary. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 29 p. <https://library.dbca.wa.gov.au/FullTextFiles/201314.pdf>

Wayne A, Maxwell M, Potts J, Barrett A, Geary B (2022). Ngwayir associations with management and environmental factors in the upper Warren. Department of Biodiversity, Conservation and Attractions, Manjimup, W.A. 58 p. <https://library.dbca.wa.gov.au/FullTextFiles/201607.pdf>

Popular (Landscape, Newsletters, Letters, etc.)

Bunn E (2021). Tissue culture for ex situ conservation and cryopreservation. https://www.youtube.com/watch?v=9_wJHrk2Hvo&t=55s

Burbidge A (2022). Book review: For the love of birds. Australian bird photography by Georgina Steytler. In *Western Australian Bird Notes* 181 p. 15. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/080290/080290-181.001.pdf>

(Continued on page 5)

(Continued from page 4)

Byrne M (2022). Margaret Byrne. *Australasian Plant Conservation* **30(3)** 9-10 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081979/081979-30.008.pdf>

Byrne M (2022). Science for the west. *Science For Saving Species* **19** 19 <https://library.dbca.wa.gov.au/Journals/081085/081085-19.001.pdf>

Carter R, Davis R, Burbidge A, Lohr C (2022). Catch me if you can: tracking down the Abrolhos painted button-quail. *Australian Birdlife* **11** 34-35, 37 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081511/081511-11.001.pdf>

Chambers B, Maxwell MA, Sullivan D, Wayne AF (2022). New technology to target feral cats in the south-west forests. *Bushland News* **122** 16 <https://library.dbca.wa.gov.au/Journals/080662/080662-122.001.pdf>

Coates D (2022). David Coates. *Australasian Plant Conservation* **30(3)** 11. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081979/081979-30.007.pdf>

Comer S, Thomas A, Berryman A, Stokes H, Blythman M, Utber D et al. [Burbidge A] (2022). Kyloring: an exciting autumn (djeran), winter (makuru). *Friends of the Western Ground Parrot Newsletter* **93** p. 2-5 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081088/081088-93.001.pdf>

Dalziell E, Monks L, Crawford A (2022). Using ex situ collections of Australian native species: translocation and other end uses. 1 video. Australian Network for Plant Conservation, Canberra <https://www.youtube.com/watch?v=bEX7-rZDymA>

Elliott C, Golos P, Stevens J, Miller B, Commander L, Merino-Martin L (2022). Restoring a threatened ecological community: defining and achieving restoration targets. Information sheet Department of Biodiversity, Conservation and Attractions, Kensington, W.A. **107** 2 p. <https://library.dbca.wa.gov.au/Journals/080525/080525-107.pdf>

Garretson S, Branch K, Rayner K, Sims C, Cowen S (2022). Constructing a better future for Wirruwana. *Landscape* **37(3)** 22-27 <https://library.dbca.wa.gov.au/Journals/080052/080052-37.022.pdf>

Golos P, Stevens J, Revell C (2022). Restoring native pasture in the Kimberley. *For People & Plants* **117** 37-38 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081999/081999-117.001.pdf>

Gosper C, Miller B, Kinloch J, van Dongen R, Adams E, Barrett S et al. [Cochrane A, McCaw L, Miller R, Yates C] (2022). Estimation of juvenile period in slow-maturing plants over space and time. . Information sheet Department of Biodiversity, Conservation and Attractions, Kensington, W.A. **109** 2 p. <https://library.dbca.wa.gov.au/Journals/080525/080525-109.pdf>

Kinloch J (2022). Webmap: spatial updates of habitat suitability model for *Varanus panoptes*. <https://tinyurl.com/4javrkyz>

Krauss S (2022). Tracking soil microbial community trajectories through time using eDNA as a measure of post-mining restoration success. *For People & Plants* **117** 39-41 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081999/081999-117.002.pdf>

Merritt D (2021). Identifying short-lived seeds https://www.youtube.com/watch?v=9_wJHrk2Hvo&t=55s

Merritt D, Krauss S, Stevens J (2022). Taking our research to the national mining stage. *For People & Plants* **118** 30-33 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081999/081999-118.002.pdf>

Paczkowska G, Davis R (2022). A second lifeline for the critically endangered pyramid mulla-mulla, *Ptilotus pyramidatus*. *Bushland News* **121** p. 5-6 <https://library.dbca.wa.gov.au/Journals/080662/080662-121.001.pdf>

(Continued on page 6)

(Continued from page 5)

Palmer R, Gibson L, Craig M, Pitt G (2022). Managing feral cats to protect northern quolls in the Pilbara. Information sheet Department of Biodiversity, Conservation and Attractions, Kensington, W.A. **106** 2 p. <https://library.dbca.wa.gov.au/Journals/080525/080525-106.pdf>

Shepherd KA (2022). Ethical authorship. *Australasian Systematic Botany Society Newsletter* **191** p. 25-29 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081983/081983-191.001.pdf>

Skates L (2021). How to conserve Australia's flora: Kings Park scientists contribute to national guidelines. *For People & Plants* **117** 27-29 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081999/081999-116.002.pdf>

Skates L (2022). Summer scholars explore science at Kings Park. *For People & Plants* **118** 24-29 <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081999/081999-118.001.pdf>

Tangney R, Miller R, Fontaine J, Veber W, Ruthrof K, Miller B (2022). Fuel dynamics in Banksia woodlands. Information sheet Department of Biodiversity, Conservation and Attractions, Kensington, W.A. **108** 2 p. <https://library.dbca.wa.gov.au/Journals/080525/080525-108.pdf>

Wilson S, Holmes T (2022). How important are seaweed habitats for small-scale tropical fisheries? *Ningaloo Coast News Autumn* p. 2. <https://library.dbca.wa.gov.au/Journals/080954/080954-2022.001.pdf>

Submitted

Arthur K, San Miguel C, Whiting SD, Montgomery N, Bartlett F, Pendoley K (). Light pollution guidelines for wildlife including marine turtles, seabirds and migratory shorebirds. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

Avenant C, Hyndes G, Whiting S, Fossette S, Barnes P (). Understanding multi-species predation on emerging sea turtle hatchlings. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

Bradbury D, Binks R, van Leeuwen S, Coates D, McArthur S, Macdonald B, Hankinson M, Byrne M (). The nuanced nature of mesic refugia in arid landscapes: a tale of two peas. *Journal of Biogeography*

Brown V, Ritchie A, Stevens J, Hanks T, Hobbs R, Erickson T (). Seed positioning in extruded pellets: does it matter? *Restoration Ecology*

Burrows N, Wills A, Densmore V (). Fuel weight and fuel hazard dynamics in mature karri (*Eucalyptus diversicolor* F.Muell) forests of south-west Western Australia. *Australian Forestry*

Cabrera FP, Huisman JM, Spalding HL, Kosaki RK, Smith CM, Sherwood AR (). Further studies on Hawaiian Kallymeniaceae (Rhodophyta) reveal pseudocryptic diversity in the genus *Croisettea*. *Phycologia*

Carter R, Davis R, Lohr C, Burbidge A (). Setting a quail up to fail: investigating the role of invasive species in the decline of the island endemic Abrolhos painted button-quail. *Australian Birdlife*

Carter R, Lohr C, Burbidge A, van Dongen R, Chapman J, Davis R (). Eaten out of house and home: local extinction of Abrolhos painted button-quail *Turnix varius scintillans* due to invasive mice, herbivores and rainfall decline. *Biological Invasions*

Chambers B, Maxwell MA, Sullivan D, Wayne AF (). New technology to target feral cats in the forests of WA's south west. *South West Catchments Council Website*

Chambers B, Wayne A, Maxwell M, Sullivan D (). Testing the use of Felixer™ grooming traps to control cats in the jarrah forest of Western Australia. In *Abstracts of the 2022 National Landcare Conference, 23-25 August, 2022*

(Continued on page 7)

(Continued from page 6)

Chambers B, Wayne A, Maxwell M, Sullivan D (). Testing the use of Felixer™ grooming traps to control cats in the jarrah forest of Western Australia. In *Abstracts of the 2022 WA State NRM & Coastal Conference, 20-22 September, 2022, Mandurah*

Crawford A (). 30 years of seed conservation in Western Australia. *Australasian Plant Conservation*

Crawford A (). Going to great lengths to conserve seed in WA. In *Australian Seed Bank Partnership Annual Report 2021-2022*

Delaisse C, Yeoh PB, Didham RK, Lewandrowski W, Scott JK, Webber BL (). Improving weed management by targeting the seed ecology of blackberry (*Rubus anglocandicans*) in a biodiversity hotspot. *Australian Journal of Botany*

Duong HT, Pegg GS, Mazanec R, McComb JA, Burgess T, Hardy GE St J (). Resistance to quambalaria shoot blight and myrtle rust in *Corymbia calophylla* seedlings. *Forest Pathology*

Eakin CM, Devotta DA, Heron SF, Connolly SR, Liu G, Geiger EF et al. [Wilson SK, Ross CL, Evans RD] (). The 2014-17 global coral bleaching event: the most severe and widespread coral reef destruction. *Nature*

Fleming PA, Stobo-Wilson AM, Crawford HM, Dickman CR, Doherty TS, Fleming PJS et al. [Palmer R] (). Distinctive diets of eutherian predators in Australia. *Ecological Monographs*

Gallagher RV, Barrett S, Bell SAJ, Dillon R, Gosper CR, Keith D et al. [Yates CJ] (). Blackened roots and green shoots: emerging trends in recovery and decline in Australian plant species after the 2019-20 Black Summer fires. In *Australia's 2019-20 Megafires : Biodiversity Impacts and Lessons For the Future* CSIRO Publishing

Gammon M, Mitchell N, Fossette S (). Stock-wide assessment of climate change vulnerability at flatback nesting sites in the Pilbara region of Western Australia. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

Gammon M, Whiting S, Fossette S (). Assessing the vulnerability of sea turtle nesting sites to erosion and inundation: a case study of flatback turtles in Western Australia. *Ecological Applications*

Geary WL, Tulloch AIT, Ritchie EG, Doherty TS, Nimmo DG, Maxwell MA et al. [Wayne AF] (). Identifying historical and future drivers that risk species recovery. *Journal of Applied Ecology*

Hanf D, Abbott J, Webb-Martin S, Flugge R, Gee J (). From little things big things grow: localised small-drone nesting beach surveys can support a regional dataset. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

Harrison ND, Phillips BL, Mitchell NJ, Wayne JC, Maxwell MA, Ward CG et al. [Wayne AF] (). Perverse outcomes from fencing fauna: loss of anti-predator traits in a havened mammal population. *Proceedings of the Royal Society B*

Hislop M (). *Conostephium wonganense*, *Dielsiodoxa altimontana* and *Styphelia blackallii*: three rare, new epacrids (Ericaceae: Epacridoideae) from Western Australia. *Nuytsia*

Hislop M (). A taxonomic update of *Stenanthera* (Ericaceae: Epacridoideae: Styphelieae), including description of a third species from Western Australia, an updated description of *S. pungens* and an Australia-wide key to species. *Swainsona*

Hounslow JL, Fossette S, Chong W, Bali R, Tucker AD, Whiting SD et al. (). Machine learning and multi-sensor tags breathe new life into the spatial ecology of sea turtles. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

(Continued on page 8)

(Continued from page 7)

Huisman JM, Verbruggen H, Entwisle TJ (). *Vaucheria virida* (Vaucheriaceae, Xanthophyceae), a new marine species from Western Australia. *Nuytsia*

Jessop SA, Saunders BJ, Goetze JS, Harvey ES (). A comparison of UVC, stereo-BRUVs, stereo-DOVs and stereo-ROVs for sampling shallow water reef fishes. *Estuarine and Coastal Science*

Jung EMU, Cosgrove JJ, Martin BC, Bollend M, Kendrick GA, Fraser MW (). Seasonal links between metabolites and traditional seagrass metrics in the seagrass *Halophila ovalis* in an estuarine system. *Ecological Indicators*

Keighery G, Gosper CR, Barrett S, Coates D, Makinson RO (). The compounding impacts of disease and weeds after the 2019-20 wildfires on Australian vascular plants and communities. In *Australia's 2019-20 Megafires : Biodiversity Impacts and Lessons For the Future*

Keighery GJ, Rye BL (). Three new Western Australian species related to *Calytrix violacea* (Myrtaceae: Chamelaucieae). *Nuytsia*

Keith D, Barrett S, Dillon R, Gosper CR, Kooyman RM, Maclean N et al. [Yates CJ] (). Ecological communities: impact and response. In *Australia's 2019-20 Megafires : Biodiversity Impacts and Lessons For the Future*

Krauss SL (). Novel consequences of bird pollination for plant mating. In *Abstracts of the International Ornithological Congress 2022, 15 to 19 August*

Lukic M, Funnekotter B, Bunn E, Mancera RL, Considine MJ (). The application of transcriptomics to advance plant cryobiotechnology. *Planta*

Lukic M, Funnekotter B, Considine MJ, Bunn E, Mancera RL (). Evaluation of vacuum infiltration vitrification and cryo-mesh cryopreservation techniques with *Arabidopsis thaliana* shoot tips. *CryoLetters*

Mayne BT, Mustin W, Baboolal V, Casella F, Ballorain K, Barret M et al. [Tucker A] (). Age prediction of marine turtles with an epigenetic clock. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

McKenzie NL, Wyrwoll K-H, Bullen RD (). Glacial origin of bat ensembles in tropical Western Australia. *Australian Journal of Zoology*

McKinney M, Gibson L, Kark S (). Protecting threatened quolls and other biodiversity on Kimberley islands from cane toads. In *NESP Threatened Species Recovery Hub Website*

Monks L, Yen J, Dillon R, Coates D, Vesk P, Byrne M et al. (). Improving plant translocation success in the southwest Australian biodiversity hotspot. In *Abstracts of the 1st International Plant Translocation Conference, June 20-23, 2022, Rome*

O'Mara K, Venarsky M, Stewart-Koster B, McGregor GB, Schulz C, Marshall J et al. (). Spatial variation in fish assemblages is explained by hydrological connectivity. *Biodiversity and Conservation*

Olde PM, Keighery GJ (). New species and taxonomic changes in the *Grevillea thelemanniana* Group (Proteaceae: Grevilleoideae: Hakeinae) from south-west Western Australia. *Telopea*

Onley IR, White LC, Moseby KE, Copley P, Cowen S (). Disproportionate admixture improves reintroduction outcomes despite the use of low-diversity source populations: population viability analysis for a translocation of the greater stick-nest rat. *Animal Conservation*

Peel LR, Whiting SD, Tucker AD, Pendoley K, Whittock PA, Ferreira LC et al. [Fossette S] (). Movements and distribution of flatback turtles (*Natator depressus*) in Western Australia and overlap with marine protected areas. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

(Continued on page 9)

(Continued from page 8)

Pinder A (). Extremophile phreodrilids?: revealing new phreodrilid diversity on granite outcrops in south-western Australia. In *Abstracts of the 15th International Symposium on Aquatic Oligochaeta, Belgium, September 19-24, 2022*

Rogers DJ, Alderman R, Barrett S, Buchan A, Burbidge AH, Churchill T et al. [Gosper CR] (). State agency responses to support species recovery following the 2019-20 wildfires. In *Australia's 2019-20 Megafires : Biodiversity Impacts and Lessons For the Future*

Ross CL, Warnes A, Comeau S, Cornwall CE, Cuttler MVW, Naugle M (). Coral calcification mechanisms in a warming ocean and the interactive effects of temperature and light. *Communications Earth and Environment*

Rye BL, Keighery GJ, Barrett MD (). Description of a new south-western Australian plant group *Hypocalymma* sect. *Grandiflora* (Myrtaceae: Chamelaucieae: Astarteinae). *Nuytsia*

Sokoloff D, Fomichev C, Rudall PJ, Macfarlane T, Remizowa M (). Evolutionary history of the grass gynoeceum. *Journal of Experimental Botany*

Stuart-Smith RD, Edgar GJ, Clausius E, Oh ES, Barrett N, Emslie MJ et al. [Holmes TH] (). Tracking widespread climate-driven change on temperate and tropical reefs. *Current Biology*

Svejcar L, Miller B, Stevens J, Standish R (). Seeding in patches promotes species coexistence in restoration. *Journal of Applied Ecology*

Svejcar L, Standish R, Fontaine J, Miller B (). Inferring plant interactions from fine scale patterns of seedling emergence and survival in post-mine restoration. *Oikos*

Tebbett SB, Crisp S, Evans RD, Fulton CJ, Pessarrodona A, Wernberg T et al. [Wilson SK] (). Are regime shifts an appropriate indicator of decline on coral reefs?. *Proceedings of the National Academy of Sciences*

Thiele K, Cockerton G, Davis R (). *Acacia armigera* (Fabaceae), a new, geographically restricted wattle from the Coolgardie bioregion of Western Australia. *Nuytsia*

Thums M, Udyawer V, Galaiduk R, Ferreira L, Radford B, Bell I et al. [Fossette S, Tucker AD, Whiting SD] (). Using marine turtles to identify habitat and assess connectivity of the Australian north and north-west marine park networks and sea country. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

Tudor E, Cross A, Tomlinson S (). Drivers of insect community reassembly in post-mining forest restoration. *Journal of Applied Ecology*

Tudor E, Lewandrowski W, Tomlinson S (). Restoration ecophysiology: integrating animal physiology into a descriptive and predictive restoration science. *Journal of Environmental Management*

Turner Tomaszewicz CN, Avens L, Seminoff JA, Limpus CJ, FitzSimmons NN, Guinea ML et al. [Whiting SD, Tucker AD] (). First age-specific vital rate estimates for Australia's endemic flatback sea turtle (*Natator depressus*) by skeletochronology. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

Umbrello L, Bullen R, Shaw R, McArthur S, Byrne M, van Leeuwen S et al. [Ottewell K] (). Extensive gene flow in the threatened bat (*Rhinonictoris aurantia*) in an arid landscape. In *Abstracts of the 20th Australasian Bat Society Conference 2022, 11-13 April*

Van Dongen R, Ruscalleda-Alvarez J, Gosper C (). An evidence-based approach to mapping burn potential in the Great Victoria Desert of Western Australia. *International Journal of Wildland Fire*

(Continued on page 10)

(Continued from page 9)

Whiting SD, Mathews D, Oades D, Williams D, Keighran F, Pracy D [Fossette S, Gee J, Waples, K] (). Sea turtle conservation and social outcomes through Indigenous initiatives and collaborations in Australia. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

Wilson P, Pendoley K, Whiting SD, Pattiaratchi C, Meekan M, Thums M (). Response of flatback turtle hatchlings to light emitting diodes at sea. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

Yenson Martyn A, Doyle C, Commander L, Dalziell E, Monks L, Crawford A (). Where do plants for translocation come from? Utilising ex situ collections in the translocation of *Grevillea calliantha* (Proteaceae) in Western Australia. In *Abstracts of the 1st International Plant Translocation Conference, June 20-23, 2022, Rome*

Yenson Martyn A, Doyle C, Dalziell E, Monks E, Crawford A (). Ex situ collections support translocation and other avenues to conserve Australian native plants. In *Abstracts of the Australian Network For Plant Conservation Conference, Albury NSW, 3-7 April 2022*

Young EJ, Warren KS, Stephens NS, Whiting SD, Yeap L, Vaughan-Higgins RJ (). Sea turtle health baselines: supporting conservation science in Western Australia. In *Abstracts of the International Sea Turtle Society 40th Meeting, 25-28 March 2022*

Zerdoner Calasan A, Shepherd KA, Kadereit G (). Managing the unmanageable: tracing the evolutionary history of Australian samphires. In *Abstracts of the International Conference of the German Society For Plant Sciences : Botanik-Tagung, Bonn, Germany, 28 August to 1 September 2022*

Contacts:

Assistant Director
Katrina Walton
Katrina.Walton@dbca.wa.gov.au
Ph: 9219 9074

Biodiversity Information Office
Helen Ensikat
Helen.Ensikat@dbca.wa.gov.au
Ph: 9219 9084

Science Communications
Alan Gill
Alan.Gill@dbca.wa.gov.au
Ph: 9219 9025

Policy & Projects
Rory McAuley
Rory.McAuley@dbca.wa.gov.au
Ph: 9219 8821

Ecoinformatics
Currently vacant

Animal Science
Lesley Gibson
Lesley.Gibson@dbca.wa.gov.au
Ph: 9405 5159

Ecosystem Science
Adrian Pinder
Adrian.Pinder@dbca.wa.gov.au
Ph: 9219 9868

Fire Science
Ben Miller
Ben.Miller@dbca.wa.gov.au
Ph: 9480 3637

Kings Park Science
Jason Stevens
Jason.Stevens@dbca.wa.gov.au
Ph: 9480 3639

Marine Science
Shaun Wilson (acting)
Shaun.Wilson@dbca.wa.gov.au
Ph: 9219 9806

Perth Zoo Science
Harriet Mills
Harriet.Mills@dbca.wa.gov.au

Plant Science & Herbarium
Carl Gosper
Carl.Gosper@dbca.wa.gov.au
Ph: 9219 9041

Remote Sensing and Spatial Analysis
Katherine Zdunic
Katherine.Zdunic@dbca.wa.gov.au
Ph: 9219 9584

Rivers & Estuaries Science
Kerry Trayler
Kerry.Trayler@dbca.wa.gov.au
Ph: 9278 0955

Species & Communities
Ruth Harvey
Ruth.Harvey@dbca.wa.gov.au
Ph: 9219 9512

Western Australian Herbarium Curator
John Huisman
John.Huisman@dbca.wa.gov.au
Ph: 9219 9137

Library Contacts:

General enquiries & requests:
library@dbca.wa.gov.au
Ph: 9219 9058

Lisa Wright
Lisa.Wright@dbca.wa.gov.au
Ph: 9219 9091

Nicole Wreford
Nicole.Wreford@dbca.wa.gov.au
Ph: 9219 9058