

# SCIENCE COMMUNICATIONS

54, July 2023

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 2023-July 2023. 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](mailto:library@dbca.wa.gov.au)

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## Journal Publications

Bain K, Halley M, Wayne A (2023). Severe, large-scale bushfire threatens metapopulation function of quokka (*Setonix brachyurus*) in south-western Australia. *International Journal of Wildland Fire* **32** 1175-1186.

<https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/0817>

Cowan E, Miller B, Fontaine J, Enright N, Standish R (2023). Soil seed bank development of smoke-responsive plant species in a 23-year restoration chronosequence and implications for resilience to fire. *Applied Vegetation Science* **26**: e12713

<https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/0816>

Harrison HB, Drane L, Berumen ML, Cresswell BJ, Evans RD, Galbraith GF et al. (2023). Ageing of juvenile coral grouper (*Plectropomus maculatus*) reveals year-round spawning and recruitment: implications for seasonal closures. *Proceedings of the Royal Society B* **290**: 20230584

<https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/0812>

Hislop M (2023). The taxonomy of the *Styphelia corynocarpa* subgroup (Ericaceae: Epacridoideae: Styphelieae). *Nuytsia* **34** 139-155.

<https://library.dbca.wa.gov.au/Journals/080057/080057->

Howell LG, Mawson PR, Comizzoli P, Witt RR, Frankham R, Clulow S et al. (2023). Modelling genetic benefits and financial costs of integrating biobanking into the conservation breeding of managed marsupials. *Conservation Biology* **37**: e14010

<https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/080255/080255-37.002.pdf>

Lawrie AD, Chaplin J, Kirkendale L, Whisson C, Pinder A, Mlambo MC (2023). Phylogenetic assessment of the halophilic Australian gastropod *Coxiella* and South African *Tomichia* resolves taxonomic uncertainties, uncovers new species and supports a Gondwanan link. *Molecular Phylogenetics and Evolution* **184**: 107810

<https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/0811>

Mayne B, Mustin W, Baboolal V, Casella F, Ballorain K, Barret M et al. [Tucker AD] (2023). Differential methylation between sex in adult green sea turtles skin biopsies. *Frontiers in Marine Science* **10**: 1169808

<https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/0811>

Novak P, Hoeksema S, Thompson S, Trayler K (2023). Per- and polyfluoroalkyl substances (PFAS) contamination in a microtidal urban estuary: sources and sinks. *Marine Pollution Bulletin* **193**: 115215 <https://library.dbca.wa.gov.au>

<https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/080142/080142-193.001.pdf>

Rick K, Travouillon K, Mitchell N, Ottewell K (2023). Population genomic diversity and structure in the golden bandicoot: a history of isolation, extirpation and conservation. *ESA 2023 Program : Ecological Society of Australia, Darwin, NT, 3-7 July 1*.

<https://library.dbca.wa.gov.au/secure/StaffOnly/204549.007.pdf>

Skey ED, Ottewell KM, Spencer PB, Shaw RE (2023). Empirical landscape genetic comparison of single nucleotide polymorphisms and microsatellites in three arid-zone mammals with high dispersal capacity. *Ecology and Evolution* **13**: e10037

<https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/0811>

Watmough S, Gilbert-Parkes S, Basiliko N, Lamit LJ, Lilleskov EA, Andersen R et al. [Rutherford J] (2023). Variation in carbon and nitrogen concentrations among peatland categories at the global scale. *PLoS One* **17**: e0275149

<https://library.dbca.wa.gov.au/Journals/080292/080292->

## Conference/Workshop Papers/Posters

Hyde J, McGrath GS, Hopkins AJM, Stevens ER, Bayer PE, Ruthrof KX (2023). Initial responses of the soil microbial community to forest thinning. In *ASM Microbe, June 15-19 2023, Houston, TX* p. 1-3. Conference Organising Committee, Houston, Tex.

<https://library.dbca.wa.gov.au/secure/StaffOnly/205371.001.pdf>

## Abstract

Algar D, Blythman M, Comer S, Thomas A (2023). Feral cats, kylloring and conservation on the south coast of WA. In *Abstracts Book : Feral Cat Symposium 2, 13-15 February, 2023, University of Western Australia, Crawley, WA* pp. 37. <https://library.dbca.wa.gov.au/secure/StaffOnly/205251.009.pdf>

Anderson N, Tangney R, Fontaine J, Lullfitz A, Callow N (2022). The influence of fire history on buttress attrition in a giant eucalypt. In *ESA-SCBO 2022 : Book of Abstracts : the Joint Conference of the Ecological Society of Australia (ESA) and the Society For Conservation Biology Oceania (SCBO), 28 November-2 December 2022, Wollongong, Australia* pp. 81.

<https://library.dbca.wa.gov.au/secure/StaffOnly/204156.003.pdf>

Auld T, Keith D, Mackenzie B, Ooi M, Le Breton T, Yates C, Gallagher R (2022). Understanding fire impacts on plants: combining a mechanistic framework, species priorities and field assessments. In *ESA-SCBO 2022 : Book of Abstracts : the Joint Conference of the Ecological Society of Australia (ESA) and the Society For Conservation Biology Oceania (SCBO), 28 November-2 December 2022, Wollongong, Australia* pp. 385.

<https://library.dbca.wa.gov.au/secure/StaffOnly/204156.011.pdf>

Box P, Brim Box J, Novak P (2023). Agent-based model of *Macrobrachia* sp. migration in the Daly River, Northern Territory Australia. In *25th International Congress On*

- Modelling and Simulation, Darwin NT, 9-14 July 2023 pp. 1. <https://library.dbca.wa.gov.au/secure/StaffOnly/205483.001.pdf>
- Chan P, Barrett M, Rye B, Landis J, Lemmon A, Lemmon E (2022). Delving into the diversification of *Darwinia* (Myrtaceae): phylogenomics, historical biogeography, pollination ecology and gene flow of the southwestern Australian clade. In *1st ASBS Conference For Students and Early Career Researchers, 14th-17th November 2022, Mt Annan Botanic Gardens, NSW (Online)* pp. 1. <https://library.dbca.wa.gov.au/FullTextFiles/202824.003.pdf>
- Comer S, Roberts D, Algar D, Speldewinde P (2023). The ecology of feral cats on the south coast of Western Australia. In *Abstracts Book : Feral Cat Symposium 2, 13-15 February, 2023, University of Western Australia, Crawley, WA* pp. 9. <https://library.dbca.wa.gov.au/secure/StaffOnly/205251.003.pdf>
- Comer S, Thomas A, Berryman A, Blythman M, Ford S, Stokes H et al. [Burbidge A] (2022). From the ashes: recovering Kyloring following the 2019 bushfires. In *ESA-SCBO 2022 : Book of Abstracts : the Joint Conference of the Ecological Society of Australia (ESA) and the Society For Conservation Biology Oceania (SCBO), 28 November-2 December 2022, Wollongong, Australia* pp. 377. <https://library.dbca.wa.gov.au/secure/StaffOnly/204156.010.pdf>
- Cowan E, Standish R, Miller B, Fontaine J, Enright N (2022). Potential resilience to fire of post-mining restored banksia woodlands. In *ESA-SCBO 2022 : Book of Abstracts : the Joint Conference of the Ecological Society of Australia (ESA) and the Society For Conservation Biology Oceania (SCBO), 28 November-2 December 2022, Wollongong, Australia* pp. 80. <https://library.dbca.wa.gov.au/secure/StaffOnly/204156.002.pdf>
- Davie H, Edwards T, Everitt C, Gibson L, Nelson J, Read J (2023). Felixer feral cat grooming trap trials in the presence of northern quolls in the Pilbara region of Western Australia. In *Abstracts Book : Feral Cat Symposium 2, 13-15 February, 2023, University of Western Australia, Crawley, WA* pp. 15. <https://library.dbca.wa.gov.au/secure/StaffOnly/205251.005.pdf>
- Densmore V, van Dongen R (2023). Comparing how burn severity affects key habitat values in Western Australian forests using the OzCBI. In *ESA 2023 Program : Ecological Society of Australia, Darwin, NT, 3-7 July* pp. 1. <https://library.dbca.wa.gov.au/secure/StaffOnly/204549.005.pdf>
- Hardstaff LK, Sommerville KD, Funnekotter B, Bunn E, Offord CA, Mancera RL (2022). Use of cryobiotechnology for the conservation of exceptional Australian Myrtaceae species. In *Cryobiology* **109** pp. 43. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/0826>
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- Hooper CM, Tonti-Filippini J, Melanda Filipe J, Xiao Z, Castleden IR, Small ID et al. [Binks R, Anderson B, Byrne M] (2023). Harnessing chloroplast diversity for high-throughput DNA barcoding. Abstract of presentation at 2023 Gordon Research Conference on Chloroplast Biotechnology, March 26-31, Ventura CA. pp. 1. <https://library.dbca.wa.gov.au/FullTextFiles/205364.pdf>
- Jeynes-Smith C, Barnes M, Sims C, Wickens M, Bode M (2022). Please sir, can I have some more?: calculating when to say yes to translocation requests for threatened species populations. In *ESA-SCBO 2022 : Book of Abstracts : the Joint Conference of the Ecological Society of Australia (ESA) and the Society For Conservation Biology Oceania (SCBO), 28 November-2 December 2022, Wollongong, Australia* pp. 275. <https://library.dbca.wa.gov.au/secure/StaffOnly/204156.008.pdf>
- Knox F, Palmer B, Forshaw D, Hyndman T, Thayaparan S, Bourne A et al [Sims C] (2022). Warts this ear?: papillomaviruses, papillomas and pigmented plaques in burrowing bettongs (*Bettongia lesueur*). PowerPoint presentation at Wildlife Disease Association, Australasian Section Conference, Kinglake Nov. 27th-Dec 2nd, 2022. 8 pp. <https://library.dbca.wa.gov.au/secure/StaffOnly/205063.001.a.pdf>
- Krauss SL, Ashton LM, van Etten EJ, Standish RJ, Phillips R, Wawrzyczek S et al. (2023). The critical role of birds as pollinators of *Banksia menziesii*. In *ESA 2023 Program : Ecological Society of Australia, Darwin, NT, 3-7 July* pp. 1. <https://library.dbca.wa.gov.au/secure/StaffOnly/204549.001.pdf>
- Mathes F, Cheng KY, McGrath G, Gleeson D, Rate A, Puzon G et al. (2023). Microbial diversity in Ashfield Flats sediments. In *Australian Society For Microbiology Annual Scientific Meeting, Perth, 3-6 July 2023* pp. 1. <https://library.dbca.wa.gov.au/secure/StaffOnly/205279.001.pdf>
- McGrath G, Fontaine JB, van Dongen R, Hyde J, Leopold M, Matusick G et al. [Ruthrof KX] (2023). Attributing forest change: ecology, remote sensing and geophysics. In *ESA 2023 Program : Ecological Society of Australia, Darwin, NT, 3-7 July* pp. 1. <https://library.dbca.wa.gov.au/secure/StaffOnly/204549.002.pdf>
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- Tangney R, Miller B, Ooi M (2022). Changes in fire seasons modify post-fire recovery success. In *ESA-SCBO 2022 : Book of Abstracts : the Joint Conference of the Ecological Society of Australia (ESA) and the Society For Conservation Biology Oceania (SCBO), 28 November-2 December 2022, Wollongong, Australia* pp. 82. <https://library.dbca.wa.gov.au/secure/StaffOnly/204156.004.pdf>
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## Reports/Chapters

- Cale DJ (2023). Julimar Claypan aquatic invertebrate survey. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 28 p. <https://library.dbca.wa.gov.au/FullTextFiles/205277.pdf>
- Dziminski M (2022). 2023 commercial kangaroo harvest quota submission for Western Australia: for submission under the Commonwealth Environment Protection and Biodiversity Conservation Act 1999. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 38 p. <https://library.dbca.wa.gov.au/FullTextFiles/203711.pdf>
- Lewandowski W, Tudor EP, Tomlinson S, Stevens JC (2023). Seasonal ecophysiological variation and plant mineral nutrition in *Aluta quadrata* in the Western Ranges: annual report 2, March 2022-March 2023. Department of Biodiversity, Conservation and Attractions, West Perth 35 p. <https://library.dbca.wa.gov.au/FullTextFiles/205851.pdf>
- Novak P (2023). Swan Canning Riverpark plastics survey: final report to Department of Water and Environmental Regulation. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 58 p. <https://library.dbca.wa.gov.au/FullTextFiles/205903.pdf>
- O'Donnell A, Prober S, Gosper, C (2023). Great Western Woodlands pilot carbon methodology: progress report 2. CSIRO, Melbourne 26 p. <https://library.dbca.wa.gov.au/secure/StaffOnly/205832.pdf>
- Palmer N (2023). 2022 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/204993.pdf>
- Palmer R (2023). Monitoring of islands in the Shoalwater Islands Marine Park for invasive rodents 2022. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 30 p. <https://library.dbca.wa.gov.au/secure/StaffOnly/206259.pdf>
- Pinder A, Venarsky M, Felton F, Barrett A, Cale D, Barratt P et al. [Bucktin H] (2023). Waterbird usage of Lake Warden and Lake Gore Ramsar sites 2006 to 2023. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 51 p. <https://library.dbca.wa.gov.au/FullTextFiles/204929.pdf>
- Povh LF, Beecham B, Lacey P, Ottewell K, Nilsson K, Dziminski M, Drew M (2023). Black-flanked rock-wallaby (*Petrogale lateralis lateralis*) population management strategy. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 58 p. <https://library.dbca.wa.gov.au/FullTextFiles/204950.pdf>
- Prada D, Ottewell K (2023). Identification of ghost bat (*Macroderma gigas*) individuals from scats collected from Lamb Creek, September 2022, Pilbara WA. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 7 p. <https://library.dbca.wa.gov.au/FullTextFiles/205271.pdf>
- Prada D, Ottewell, K (2023). Identification of ghost bat (*Macroderma gigas*) individuals from scats collected from west Hamersley, August 2022, Pilbara, Western Australia. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 7 p. <https://library.dbca.wa.gov.au/FullTextFiles/205269.pdf>
- Prada D, Thavornkanlapachai R, McArthur S, Ottewell K (2023). Ghost bat (*Macroderma gigas*) genetic monitoring, South Flank 2021-2022: final report to Biologic Environmental Survey. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 34 p. <https://library.dbca.wa.gov.au/FullTextFiles/205270.pdf>
- Quinlan K, Jackson J, Pinder A, Shiel R (2023). A survey of wetlands across the Goldfields region from 2014 to 2017. In *Scientific Report to the Regional Office Goldfields* Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 62 p. <https://library.dbca.wa.gov.au/secure/StaffOnly/205549.pdf>
- van Dongen R, Deshayes A, Densmore V, Miller B, Ruthrof K (2023). Fire severity mapping and dense forest stands. Department of Biodiversity, Conservation and Attractions, Kensington, W.A. 39 p. <https://library.dbca.wa.gov.au/FullTextFiles/206346.pdf>
- Wayne AF, Maxwell MA, Wayne JC, Harrison N, White D, Ottewell KM et al. (2023). An assessment of ngwayir (western ringtail possum) in the Perup Sanctuary, to inform management and potential future translocations: final report. Department of Biodiversity, Conservation and Attractions, Manjimup, W.A. 73 p. <https://library.dbca.wa.gov.au/FullTextFiles/205607.pdf>
- Wills AJ (2023). The Noongar six season calendar from a wadjela (white person's) perspective. Department of Biodiversity, Conservation and Attractions, Manjimup, W.A. 28 p. <https://library.dbca.wa.gov.au/FullTextFiles/205700.pdf>

### Popular (Landscape, Newsletters, Letters, etc.)

- Abbott I, Burbidge A (2023). Island life. *Landscape* **38(4)** 28-32. <https://library.dbca.wa.gov.au/Journals/080052/080052-38.032.pdf>
- Balasupramaniam L (2023). Testing our seeds in the bank. *For People and Plants* **121** 36-37. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/0819>
- Crawford A (2023). Saving seed to save species. *Bushland News* **126** p. 19-20. <https://library.dbca.wa.gov.au/Journals/080662/080662->
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- Geary W, Wayne A, Ritchie E, Doherty T (2023). Species don't live in isolation: what changing threats to 4 marsupials tell us about the future. *Conversation* **22** Mar 1-4. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081236/081236-2023.001.pdf>
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- McGrath G (2023). Changing processes flooding a salt marsh in a microtidal estuary with a drying climate.
- Mitchell S, Guildea C (2023). Tagging turtles on a remote and ruggedly beautiful island. *Landscape* **38(4)** 48-52. <https://library.dbca.wa.gov.au/Journals/080052/080052->
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- Parker CM, Davis RW (2022). Plant of the month, November 2022: *Marianthus granulatus* (Turcz.) Benth.. 2 Department of Biodiversity, Conservation and Attractions, Kensington, W.A. <https://library.dbca.wa.gov.au/Journals/081093/081093-2022.10.pdf>
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- Stevens J (2023). Celebrated cryopreservation pioneer retires: colleagues honour Dr Eric Bunn. *For People and Plants* **121** 33-35. <https://library.dbca.wa.gov.au/secure/StaffOnly/Journals/081924/081924-2023.001.pdf>
- Wenk E, Falster D, Gallagher R, Sauquet H, Brownlee R, Boettinger C et al. [Gosper C] (2023). The AusTraits Plant Dictionary (APD) ontology. *AusTraits Plant Dictionary* (APD).
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