

# SCIENCE COMMUNICATIONS

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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 August 2020-January 2021.

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)

Margaret Byrne  
Executive Director

### Journal Publications

Bieroza M, Dupas R, Glendell M, McGrath G, Mellander P-E (2020). Hydrological and chemical controls on nutrient and contaminant loss to water in agricultural landscapes. *Water* **12**: 3379 <https://library.dbca.wa.gov.au/static/StaffOnly/Journals/082132/082132-12.001.pdf>

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## **Abstracts**

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## Reports/Chapters

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## Submitted

Ahrens CW, Jordan R, Bragg J, Harrison PA, Hopley T, Bothwell H et al. [Byrne, M] (submitted). Regarding the f-word: the effects of data filtering on inferred genotype-environment associations. *Molecular Ecology*

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Algar D, O'Donoghue M, Johnston M, Nickels D (submitted). A delayed-release lethal implant to aid retrieval of individual introduced predators in field studies. *Wildlife Research*

Anderson H, Richards B, Ross W, Palmer R (submitted). Feral cat (*Felis catus*) predation confirmed for Rothschild's rock-wallaby (*Petrogale rothschildi*) in the Pilbara. *Australian Mammalogy*

Berto B, Erickson TE, Ritchie AL (submitted). Flash flaming improves flow properties of Mediterranean grasses used for direct seeding. *Plants*

Bhandari SK, Veneklaas EJ, McCaw L, Mazanec R, Renton M (submitted). Predicting the effect of neighbour competition on individual tree growth in thinned and unthinned eucalypt forest. *Forest Ecology and Management*

Bhandari SK, Veneklaas EJ, McCaw L, Mazanec R, Whitford K, Renton M (submitted). Predicting individual tree growth in jarrah (*Eucalyptus marginata*) forest based on size and distance of neighbouring trees in thinned and non-thinned plots. *Ecological Modelling*

Bouchet PJ, Thiele D, Marley SA, Waples K, Weisenberger F, Balanggarra Rangers et al. [Raudino H] (submitted). Regional assessment of the conservation status of snubfin dolphins (*Orcaella heinsohni*) in northern Western Australia. *Frontiers in Marine Science*

Bougher NL (submitted). An observation of ants harvesting a fruit body of *Amanita*. *Western Australian Naturalist*

Braby MF, Williams MR, Douglas F, Beardsell C, Crosby DF (submitted). Long-term changes of a peri-urban butterfly assemblage over 80 years near Melbourne, Australia. *Austral Entomology*

Butcher R (submitted). Two new, orange-flowered *Tephrosia* (Fabaceae: Millettieae) species from the Kimberley region, in Western Australia's monsoon tropics. *Australian Systematic Botany*

Butcher R, Cowie I (submitted). Redefinition of *Tephrosia supina* (Fabaceae: Millettieae), a north-west Western Australian endemic, and description of two similar species. *Australian Systematic Botany*

Cabrera FP, Huisman JM, Spalding HL, Kosaki RK, Sherwood AR (submitted). Diversity of Kallymeniaceae (Gigartinales, Rhodophyta) associated with Hawaiian mesophotic reefs, with the description of *Psaromenia laulamaula* sp. nov. and *Meredithia hawaiiensis* sp. nov.. *European Journal of Phycology*

Chapman J, Zdunic K (submitted). Red Hill annual desktop fire regime monitoring, 2018

Chapman J, Zdunic K (submitted). Yarraloola annual desktop fire regime monitoring, 2019

Clementi GM, Bakker J, Flowers KI, Postaire BD, Babcock EA, Bond ME et al. [Goetze JS] (submitted). Moray eels are more common on coral reefs subject to higher human pressure in the greater Caribbean. *iScience*

Cochrane A, Barrett S (submitted). Plant regeneration from seeds in the southern Mediterranean regions under a changing climate. In *Plant regeneration from seeds: a global warming perspective*

Collett S, Crewe T, Radford IJ, Garnett S, Campbell H (submitted). Sympatric granivores adopt different foraging strategies to compensate for resource limitation. *Functional Ecology*

Cowan M, Dunlop J, Moore H (submitted). Northern quoll (*Dasyurus hallucatus*) home range synopsis

Cowen S, Payne W (submitted). Working smarter not harder: finding clues in poo. *Wirruwana News*

Crawford A (submitted). DBCA, Western Australian Seed Centre, Kensington. *Australian Seed Bank Partnership annual report 2019-2020*

Cvitanić C, Mackay M, Kelly R, Wilson SK, Waples K, Nash KL et al. [Evans RD, Halford AR, Kendrick AJ, Robbins WD, Tucker AD] (submitted). Thirty critical research needs for managing an ecologically and culturally unique remote marine environment: the Kimberley region of Western Australia. *Ocean and Coastal Management*

Davis RW, Hammer TA (submitted). A key to the species of *Swainsona* (Fabaceae) in Western Australia and description of *S. katjarra* from the Little Sandy Desert region, Western Australia. *Swainsona*

Dekanová V, Venarsky MP, Bunn SE (submitted). Length-mass relationships of Australian aquatic invertebrates. *Austral Ecology*

Desbiens AA, Roff G, Robbins WD, Taylor BM, Castro-Sanguino C, Dempsey A et al. (submitted). Revisiting the paradigm of shark-driven trophic cascades in coral reef ecosystems. *Ecology*

Eggertsen M, Chacin DH, van Lier J, Eggertsen L, Fulton CJ, Wilson S et al. (submitted). Seascape configuration and fine-scale habitat complexity shape parrotfish distribution and function across a coral reef lagoon. *Diversity*

Elliott C, Commander L, Merino-Martin L, Golos P, Stevens J, Miller B (submitted). A multi-disciplinary approach to defining and achieving a vegetation richness and composition target in restoration of a semi-arid threatened plant community. *Journal of Applied Ecology*

Elliott C, Commander L, Williams M, Golos P (submitted). Seed movement at small scales impacts measures of vegetation restoration. *Ecological Management and Restoration*

Falster D, Gallagher R, Wenk E, Wright I, Indiarito D, Baxter C et al. (submitted). AusTraits: a curated plant trait database for the Australian flora. *Scientific Data*

Farr J, Wills A (submitted). Fire, silviculture, and ground-active macroinvertebrates in jarrah forest. *Australian Forestry*

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Fleming PA, Crawford HM, Stobo-Wilson AM, Dundas SJ, Dawson SJ, Stuart J-M D et al. [Palmer R] (submitted). Temporal and spatial patterns in red fox diet across Australia. *Biological Reviews*

Fomichev CI, Macfarlane TD, Valiejo-Roman CM, Samigullin TH, Degtjareva GV, Briggs BG et al. (submitted). Two centuries from species discovery to diagnostic characters: molecular and morphological evidence for a narrower species concept in the widespread SW Australian *Anarthria gracilis* complex (Restionaceae s.l., Poales). *PeerJ*

Fossette S, Ferreira LC, Whiting SD, King J, Pendoley K, Shimada T et al. [Tucker AD] (submitted). Quantifying movement and distribution of the critically endangered hawksbill turtle in the eastern Indian Ocean. *Global Ecology and Conservation*

Fossette S, Loewenthal G, Peel L, Vitenbergs A, Hamel M, Douglas C et al. [Tucker T, Mayer F, Whiting S] (submitted). Using aerial photogrammetry to assess stock-wide marine turtle nesting distribution, abundance, and cumulative exposure to industrial activity. *Remote Sensing*

French B, Wilson S, Kendrick A, Rule M (submitted). The mesh size effect: counting long thin fish in seagrass. *Biological Conservation*

Gallagher RV, Allen S, Mackenzie B, Keith DA, Merow C, He K et al. [Gosper C, Yates C] (submitted). Impacts of the 2019-2020 megafire on Australian plant diversity. *Diversity and Distributions*

Gibbons KL, Dillon SJ (submitted). *Paranotis halfordii* (Rubiaceae: Spermacoeae), a new species from the Kimberley region of Western Australia, in a recently described Australian genus. *Telopea*

Gibson Vega A (submitted). Cryptic grasswrens. *Wirruwana News*

Gibson Vega A, Rayner K (submitted). The secret life of grasswrens. *Landscape*

Goetze J, Wilson S, Radford B, Fisher R, Langlois T, Monk J et al. [Holmes TH] (submitted). Increased connectivity potential and depth improves the effectiveness of no-take marine reserves. *Global Change Biology*

Goldsworthy SD, Shaughnessy PD, Mackay AI, Bailleul F, Holman D, Lowther A et al. [Waples K, Raudino H] (submitted). Species-wide assessment of the status and trends in pup abundance of the Australian sea lion, *Neophoca cinerea*. *Endangered Species Research*

Harvey ES, McLean DL, Goetze JS, Saunders BJ, Langlois TJ, Monk J et al. [Wilson SK, Holmes TH] (submitted). The BRUVs workshop: an Australia-wide synthesis of baited remote underwater video data to answer broad-scale ecological questions about fish and sharks. *Marine Policy*

Hopkins A, Tay N, Bryant G, Ruthrof K, Valentine L, Kobryn H et al. (submitted). Urban remnant size alters the diversity of ecologically significant fungi dispersed by a digging mammal. *Oecologia*

Hopley T, Webber BL, Raghu S, Morin L, Byrne M (submitted). Revealing the introduction history and phylogenetic relationships of *Passiflora foetida sensu lato* in Australia. *Frontiers in Plant Science*

Huisman J (submitted). Diamondback squid (*Thysanoteuthis rhombus*). *Landscape*

Huisman JM, Dixon RRM, Townsend RA, Belton G (submitted). Diversity and distribution of marine benthic algae and seagrasses in the tropical Kimberley, Western Australia. *Records of the Western Australian Museum Supplement*

Keighery G (submitted). *Lycopus europeus* L. (Lamiaceae), a new weed record for Australia. *Western Australian Naturalist*

Keighery G, Mitchell A (submitted). A new alert weed for the north-west of Australia: mopane (*Colophospermum mopane*). *Western Australian Naturalist*

Kestel JH, Phillips RD, Anthony J, Davis RA, Krauss SL (submitted). Unexpectedly low paternal diversity is associated with infrequent pollinator visitation for a bird-pollinated plant. *Oecologia*

Knight KJ, Stephenson SL (submitted). *Echinostelium australiense* (Echinosteliaceae: Myxomycetes), a new species of slime mould described from Western Australia. *Nuytsia*

Lavery T, Eldridge M, Legge S, Pearson D, Southwell D, Woinarski J et al. (submitted). Threats to Australia's rock-wallabies (*Petrogale* spp.) with key directions for effective monitoring. *Mammal Review*

Leseberg NP, McAllan IAW, Murphy SA, Burbidge AH, Joseph L, Parker SA et al. (submitted). Using anecdotal reports to ascertain the distribution and status of a near mythical species: Australia's night parrot (*Pezoporus occidentalis*). *Emu: Austral Ornithology*

Lester E, Canon T, Arujo G (submitted). Whale sharks (*Rhincodon typus*) feed on baitfish with other predators at Ningaloo Reef. *Journal of Fish Biology*

Lohr CA, Dziminski M, Dunlop J, Miller E, Morris K (submitted). The reintroduction of bilbies (*Macrotis lagotis*) to Matuwa, an Indigenous Protected Area in Western Australia. *Conservation Biology*

Lyons MN, Markey A (submitted). Fortescue Valley Dunes PEC, South East Marillana Station: botanical values, condition assessment and approaches to minimize stock impacts

Markey A, Comer S, Burbidge A (submitted). Botanical surveys of western ground parrot habitat to inform translocation site selection: summary report, October 2020

Maron M, Evans M, Walsh J, Leseberg N, Burbidge A, Murphy S et al. [van Leeuwen S] (submitted). Better offsets for the night parrot. In *factsheet to be published by NESP TSR Hub*

Mawson PR, Saunders DA, Dawson R (submitted). Effects of two unseasonal extreme weather events on the breeding performance of Carnaby's cockatoo *Calyptorhynchus latirostris*. *Birds*

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McCaw L (submitted). Understanding the changing fire environment of south-west Western Australia. PowerPoint presentation at Workshop on Climate Change Adaptation, Shire of Manjimup, 3/09/2020

McCaw L, Tunsell V (comps) (submitted). FORESTCHECK: report of progress, jarrah south ecosystem, 2020

McClanahan TR, Darling ES, Maina JM, Muthiga NA, D'agata S, Leblonde J et al. [Wilson SK] (submitted). Large geographic variability in the resistance of corals to thermal stress. *Global Ecology and Biogeography*

Millar MA, Coates DJ, Byrne M, Krauss SL, Jonson J, Hopper SD (submitted). Evaluating restoration outcomes through assessment of pollen dispersal, mating system and genetic diversity. *Restoration Ecology*

Monks L (submitted). *Banksia cuneata* (matchstick banksia) case study. In *Australian Guidelines for Germplasm Conservation*

Monks L, Standish R, McArthur S, Dillon R, Byrne M, Coates D (submitted). Genetic and mating system assessment of translocation success of the long-lived perennial shrub *Lambertia orbifolia* (Proteaceae). *Restoration Ecology*

Novak P, Fairfield C, Miloshis M, Knight Z, Lindsay R, King A (submitted). Bank erosion in a macrotidal tropical river: exploring the relative impact of boat wash on riverbank erosion. *River Research and Applications*

O'Donnell AJ, McCaw WL, Cook ER, Grierson PF (submitted). Megadroughts and pluvials in southwest Australia: 1350-2017 CE. *Climate Dynamics*

Palmer BJ, Valentine LE, Lohr CA, Daskalova GN, Hobbs RJ (submitted). Burrowing by translocated boodies (*Bettongia lesueur*) alters soils but has limited effects on vegetation. *Ecology and Evolution*

Pearson D, Thomson-Dans C, Wardell-Johnson G (submitted). Frogs of Western Australia

Peddle SD, Borrett RJ, Liddicoat C, Bullock P, Gardner M, Breed MF et al. [Krauss SL] (submitted). Changes to soil bacterial communities following post-mining rehabilitation in the Western Australian jarrah forest. *Restoration Ecology*

Penton CE, Davies HF, Radford IJ, Woolley L-A, Tiwi Land Rangers, Murphy BP (submitted). Terrestrial, not arboreal factors, determine abundance patterns of threatened arboreal mammals in island savannas. *Wildlife Research*

Percy-Bower JM, Parker CM (submitted). Updates to Western Australia's vascular plant census for 2020. *Nuytsia*

Peterson K, Barnes MD, Jeynes-Smith C, Cowen S, Gibson L, Sims C et al. (submitted). Reconstructing lost ecosystems: a risk analysis framework for planning multispecies reintroductions under severe uncertainty. *Journal of Applied Ecology*

Price BA, Harvey ES, Mangubhai S, Saunders BJ, Puotinen M, Goetze JS (submitted). Impacts and

responses of habitat and fish to severe tropical cyclone Winston in Fiji. *Coral Reefs*

Prober SM, Hodgson J, Cook G, Gosper CR, Yates CJ, Richards AE (submitted). The Australian ecosystem models framework: eucalypt woodlands. In *CSIRO website*

Rayner K, Sullivan M, Sims C, Cowen S (submitted). A pain in the neck: weak links are not a reliable release mechanism for radio-tracking collars. *Australian Mammalogy*

Ruscalleda-Alvarez J, Moro D, van Dongen R (submitted). A multi-scale assessment of fire scars in the Great Victoria Desert of Western Australia using Landsat imagery: validation and management applications. *Journal of Applied Ecology*

Saccò M, Blyth AJ, Venarsky M, Humphreys WF (submitted). Trophic interactions in subterranean environments

Samaniego A, Kappes P, Broome K, Cranwell S, Griffiths R, Harper G et al. [Palmer R] (submitted). Factors leading to successful island rodent eradications following initial failure. *Conservation Biology*

Saunders BJ, Galaiduk R, Inostroza K, Myers EMV, Goetze JS, Westera M et al. (submitted). Quantifying patterns in fish assemblages and habitat use along a deep submarine canyon-valley feature using a remotely operated vehicle. *Frontiers in Marine Science*

Saunders D, Nguyen H, Cowen S, Marsh K, Bell S, Magrath M et al. (submitted). Radio-tracking wildlife with drones: a watershed analysis quantifying spatial benefits across diverse landscapes. *Wildlife Research*

Seidlitz A, Bryant KA, Armstrong NJ, Wayne AF (submitted). Animal detections increase by using a wide-angle camera trap model but not by periodically repositioning camera traps within study sites. *Methods in Ecology and Evolution*

Shackelford N, Paterno GB, Winkler DE, Erickson TE, Leger EA, Svejcar LN et al. (submitted). Dryland restoration successes and failures: a global synthesis. *Nature*

Stobo-Wilson AM, Murphy BP, Crawford HM, Dawson SJ, Dickman CR, Doherty TS et al. [Palmer R] (submitted). Sharing meals: predation on Australian mammals by the introduced European red fox compounds and complements predation by feral cats. *Biological Conservation*

Stobo-Wilson AM, Murphy BP, Legge SM, Chapple DG, Crawford HM, Dawson SJ et al. [Palmer R] (submitted). Reptiles as food: predation of Australian reptiles by introduced red foxes compounds and complements predation by cats. *Biological Conservation*

Thomas WJW, Anthony JM, Dobrowolski MP, Krauss SL (submitted). Optimising the conservation of genetic diversity of the last remaining population of a critically endangered shrub. *AoB Plants*

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Treloar S, Davis R, Hopkins A, Lohr C (submitted). Potential for resource competition between co-existing threatened mammals in a fenced reserve in Western Australia. (ABSTRACT) In *2020 Conference of the Ecological Society of Australia (ESAus20)*, Wollongong, New South Wales, 29 November-4 December 2020

Tufta K, Legge S, Frank ASK, James AI, May T, Page E et al. [Radford IJ] (submitted). Cats are a key threatening factor to the survival of local populations of native small mammals in Australia's tropical savannas: evidence from translocation trials with *Rattus tunneyi*. *Wildlife Research*

von Takach B, Penton CE, Hill B, Radford IJ, Hill B, Murphy BP et al. (submitted). Informing conservation management of a severely declining tropical rodent through the use of population genomic data. *Ecology and Evolution*

Walden LL, Fontaine JB, Ruthrof KX, Matusick G, Harper RJ (submitted). The legacy of hotter drought persists through high severity wildfire in a resprouting forest. *Global Change Biology*

Webster CL, Kilminster KL, Alarcón MS, Bennett K, Strydom S, McNamara S et al. (submitted). Rainfall as an extreme event in estuaries: population-specific resilience of *Halophila ovalis* seagrass habitat. *Journal of Ecology*

Wege J (submitted). A botanical tribute to Stephen van Leeuwen. *Yarning Time*

West KM, Adam AAS, White N, Robbins W, Barrow D, Lane A et al. (submitted). The applicability of eDNA metabarcoding approaches for sessile benthic surveying in the Kimberley region, north-western Australia. *Environmental DNA*

West K, Heydenrych M, Lines R, Tucker T, Fossette S, Whiting S et al. (submitted). Development of a 16S metabarcoding assay for the environmental DNA (eDNA) detection of aquatic reptiles across northern Australia. *Marine and Freshwater Research*

White DJ, Ottewell K (submitted). Genetic management and population modelling of translocated fauna: banded hare-wallaby (*Lagostrophus fasciatus*)

Williams AAE, Williams MR, Bishop CL, Gamblin T, Fissioli J, Coppen RAM (submitted). Notes on the biology, ecology, life history and conservation of the graceful sun-moth *Synemon gratiosa* Westwood 1877 (Lepidoptera: Castniidae). *Australian Entomologist*

Williams MR, Lamont BB, He T (submitted). A new randomization test of the biological versus statistical significance of correlations between derived variables. *Biometrics*

Wills A, Ward B (submitted). Flowering seasonality in jarrah forest in the context of pre-colonial and current burning. *Australian Journal of Botany*

Wilson S, Holmes T, Goetze J (submitted). Research and monitoring by the Marine Science Program, Department of Biodiversity, Conservation and Attractions. *Lateral Lines: Australian Society for Fish Biology Newsletter*

Woinarski JCZ, Stobo-Wilson AM, Crawford HM, Dawson SJ, Dickman CR, Doherty TS et al. [Palmer R] (submitted). Compounding and complementary carnivores: Australian bird species eaten by introduced European red foxes and domestic cats. *Biological Conservation*

Young E, Buller N, Bannister J, Vaughan-Higgins R, Stephens N, Whiting S et al. (submitted). *Streptococcus iniae* associated mass marine fish kill off Western Australia, and first report in sea turtles and snakes. *Diseases of Aquatic Organisms*

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