

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 February 2019-July 2019.

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Margaret Byrne
Executive Director

Journal Publications

Ahrens CW, Byrne M, Rymer PD (2019). Standing genomic variation within coding and regulatory regions contributes to the adaptive capacity to climate in a foundation tree species. *Molecular Ecology* **28**, 2502-2516 <https://library.dbca.wa.gov.au/static/StaffOnly/Journals/080093/080093-28.001.pdf>

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Bonnin L, Robbins WD, Boussarie G, Kiszka JJ, Dagorn L, Mouillot D *et al.* (submitted). Sex-biased long-range migrations in a common Indo-Pacific reef shark. *Coral Reefs*

Burbidge A (comp) (submitted). Bibliography for Carnaby's black-cockatoo (*Calyptrorhynchus latirostris*).

Ceccarelli DM, Evans RD, Logan M, Mantel P, Puotinen M, Petus C *et al.* (submitted). Dynamics and drivers of coral and macroalgal cover on inshore reefs of the Great Barrier Reef Marine Park. *Ecological Applications*

Chua M, Erickson TE, Merritt DJ, Chilton A, Ooi MKJ, Muñoz-Rojas M (submitted). Bio-priming seeds with cyanobacteria: effects on germination, recruitment and growth of native plants and soil function. *Restoration Ecology*

Coates DJ, Keith DA, Silcock JL, Fensham RJ, Crase B, Woinarski JCZ *et al.* [Atkins KJ, Yates CJ] (submitted). Current trends in the conservation status of threatened plants in Australia

Cooper SJB, Ottewell K, MacDonald AJ, Adams M, Byrne M, Carthew SM *et al.* (submitted). Phylogeography of southern brown and golden bandicoots: implications for the taxonomy and distribution of endangered subspecies and species. *Australian Journal of Zoology*

Cowan E, Standish RJ, Fontaine J, Miller BP (submitted). Interactions between fire and ecological restoration in Mediterranean climate ecosystems in Australia. (ABSTRACT) In *Society for Ecological Restoration, 8th World Conference on Ecological Restoration, Cape Town, South Africa, 22-27 September 2019*

Cowan M, Moro D, Anderson H, Garretson S, Angus J, Morris K (submitted). Aerial baiting for feral cats is unlikely to affect survivorship of northern quolls in the Pilbara region of Western Australia. *Wildlife Research*

Cowen S, Clausen, L, Algar D, Comer S (submitted). Using genetics to evaluate the success of a feral cat (*Felis catus*) control program in north-western Australia. *Animals*

Cowen S, Comer S, Wetherall J, Groth D (submitted). The impact of translocations of the genetic diversity of an endangered and cryptic songbird. *Emu: Austral Ornithology*

Crawford A (photo) (submitted). Seed banking Australia: *Petrophile latericola* (POSTAGE STAMP)

Crawford A, Monks L, Chant A (submitted). Towards recovery of the scaly-leaved featherflower. *Australasian Plant Conservation*

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Cross SL, Tomlinson S, Craig MD, Bateman PW (submitted). Behavioural responses of a reptilian predator, the perentie (*Varanus giganteus*: Varanidae: Squamata) to altered thermal habitats. *Conservation Physiology*

Davis RW (submitted). *Gomphrena verecunda* (Amaranthaceae), a modest new species from Western Australia's arid zone. *Nuytsia*

Davison E, Knight K, Hart R (submitted). Obituary: Margaret Helen Brims, 23 April 1932-13 December 2018. *Western Australian Naturalist*

Davison EM, Bougher NL, Brundrett MC, Hart R, Knight KJ (submitted). Fungi: the invisible linkage. In *A Jewel in the Crown of a Global Biodiversity Hotspot* (ed H Lambers).

Duncan C, Schultz N, Good M, Lewandrowski W, Cook S (submitted). Water-stress sensitivity is an important germination strategy of plants from an arid zone with stochastic rainfall. *AoB Plants*

Elise S, Bailly A, Urbina-Barreto I, Mou-Tham G, Chiroleu F, Vigliola L et al. [Robbins WD] (submitted). An optimised passive acoustic sampling scheme to discriminate among coral reefs' ecological states. *Ecological Indicators*

Elliott C, Krauss S, Turner S, Miller B, Lewandrowski W, Merritt D et al [Bunn E, Davis B, Stevens J] (submitted). Integrated scientific approaches to rare species restoration: lessons learnt from Western Australia's Kings Park and Botanic Garden. (ABSTRACT) In *Society for Ecological Restoration, 8th World Conference on Ecological Restoration, Cape Town, South Africa, 22-27 September 2019*

Elliott C, Lewandrowski W, Merritt D, Miller B, Stevens J, Turner S (submitted). Application of restoration science to threatened species translocation: Insights from a banded ironstone species. (ABSTRACT) In *Society for Ecological Restoration, 8th World Conference on Ecological Restoration, Cape Town, South Africa, 22-27 September 2019*

Elliott C, Lewandrowski W, Stevens J (submitted). Translocation of a threatened cliff-dwelling species. *Journal of Horticulture*

Elliott C, Lewandrowski W, Turner S, Krauss S, Merritt D, Miller B et al. [Stevens J] (submitted). *Tetratheca erubescens* translocation, annual research report 2 for Mineral Resources Limited, March 2018 to March 2019

Erickson TE, Muñoz-Rojas M, Guzzomi A, Masarei M, Ling E, Bateman A et al. [Turner S, Merritt DJ] (submitted). Mine rehabilitation is not just earthworks: tools, strategies, and implementation of seed- and engineering-based research. (ABSTRACT) In *13th International Conference on Mine Closure, 3-5 September 2019, Perth, Western Australia*

Firman R, Ottewell K, Fisher D, Tedeschi J (submitted). Range-wide genetic structure of a cooperative mouse in a semi-arid zone: evidence for panmixia

FitzSimmons NN, Pittard SD, McIntyre N, Jensen MP, Guinea M, Hamann M et al. [Prince B, Tucker AD, Whiting S] (submitted). Phylogeography, genetic stocks, and conservation: implications for an Australian endemic marine turtle. *Aquatic Conservation: Marine and Freshwater Ecosystems*

Fossette-Halot S, Loewenthal G, Tucker T, Mayer F, Whiting S (submitted). A cumulative risk assessment framework to prioritize management actions for Western Australia flatback turtles. (ABSTRACT) In *AMSA 2019 conference website and book of abstracts, 7-11 July 2019 Fremantle*

Friend JA, Hill R, Macmahon B, Bell L, Button T, Mosen C et al. [Hill S] (submitted). Are red-tailed phascogales (*Phascogale calura*) at risk from Eradicat® cat baits?

Gosper CR, Hopley T, Byrne M, Hopper SD, Prober SM, Yates CJ (submitted). Elevation to species for obligate-seeder infraspecific taxa in *Eucalyptus* subseries *Levispermae* (Myrtaceae). *Nuytsia*

Grigg AH, Kinal J (submitted). Deep groundwater can contribute more than 90% of streamflow in lateritic forested catchments of south-western Australia. *Hydrological Processes*

Hislop M (submitted). *Styphelia quartzitica* and *S. rectiloba* (Ericaceae: Epacridoideae: Styphelieae), two new, morphologically anomalous species of restricted distribution. *Nuytsia*

Hislop M, Puente-Lelievre C (submitted). A taxonomic review of the *Styphelia xerophylla* group (Ericaceae: Epacridoideae: Styphelieae). *Nuytsia*

Hounslow J, Fossette-Halot S, Whiting S, Tucker A, Richardson A, Richardson J et al. (submitted). A novel methodology to study vertical movements of marine turtles. (ABSTRACT) In *AMSA 2019 conference website and book of abstracts, 7-11 July 2019 Fremantle*

Huang P, Trayler K, Wang B, Saeed A, Oldham C, Busch B et al. (submitted). Toward a real-time integrated prediction system for managing water quality in an urban estuary: progress in the Swan-Canning Estuary visual observatory. *Journal of Marine Systems*

Huisman JM (submitted). Parasitic seaweeds. *Landscape*

Huisman JM, Saunders GW (submitted). *Champia patula* (Champiaceae: Rhodymeniales), a new red algal species from the Perth region, Western Australia. *Nuytsia*

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Jabaily RS, Shepherd KA, Gardner A, Sessa EB (submitted). Phylogeny informs the taxonomic revision of *Goodenia sensu lato* (Goodeniaceae). (ABSTRACT) In *Botanical Society of America Botany 2019 Conference: Sky Islands and Desert Seas, July 22-31, Tucson, Arizona*

Johansen MP, Child DP, Cresswell T, Harrison JJ, Hotchkis MAC, Howell N et al. [Whiting SD] (submitted). Plutonium and other radionuclides persist across marine-to-terrestrial ecotopes in the Montebello Islands sixty years after nuclear tests. *Science of the Total Environment*

Just M, Merritt D, Turner S, Conran J, Cross A (submitted). Seed germination biology of the Albany pitcher plant, *Cephalotus follicularis*

Keighery BJ, Keighery GJ, Tauss C (submitted). Threatened and conservation-listed plant communities in the proposed Yule Brook Regional Park. In *A Jewel in the Crown of a Global Biodiversity Hotspot* (ed H Lambers).

Keighery GJ, Keighery BJ, Tauss C (submitted). Weeds of the proposed Yule Brook Regional Park. In *A Jewel in the Crown of a Global Biodiversity Hotspot* (ed H Lambers).

Kendrick GA, Nowicki R, Olsen YS, Strydom S, Fraser MW, Sinclair EA et al. (submitted). Multiple stressors from extreme events drive ecosystem-wide loss of resilience an iconic seagrass community. *Frontiers in Marine Science*

Kinal J, Stoneman G (submitted). Heading towards more than half a century of thinned, climate-resilient forest

Kinloch J (submitted). The feasibility of using Tracklog data to determine Feral Herbivore hotspots and surveillance effort in Pilbara conservation areas

Knight K (submitted). A slime mould named *Leocarpus fragilis*. *Bushland News*

Lambourne R, Fossette S, Whiting S, Gleiss A (submitted). A first step towards understanding the underwater responses of flatback turtles to changes in their environment using multi-sensor tags. (ABSTRACT) In *AMSA 2019 conference website and book of abstracts, 7-11 July 2019 Fremantle*

Lauterbach M, Zimmer R, Alexa AC, Adachi C, Sage R, Sage T [et al.] [Macfarlane T] (submitted). Higher vein density accompanies C4 evolution in Tribuloideae (Zygophyllaceae): phylogeny, physiology and biochemistry

Lester E, Speed C, Rob D, Barnes P, Waples K, Raudino H (submitted). An assessment of the potential effects of tourism encounters on whale sharks using an electronic monitoring system and photo-identification. *Tourism in the Marine Environment*

Ling E, Guzzomi A, Merritt DJ, Renton M, Erickson TE (submitted). Flash flaming technology shows promise to improve seed-based rehabilitation outcomes. (ABSTRACT) In *13th International Conference on Mine Closure, September 2019, Perth, Western Australia*

Lohr MT, Spencer P, Krauss S, Anthony J, Burbidge AH, Davis RA (submitted). Widespread genetic connectivity in Australia's most common owl, despite extensive habitat fragmentation. *Condor*

Lowe JR, Williamson DH, Ceccarelli DM, Evans RD, Russ GR (submitted). Responses of coral reef wrasse assemblages to disturbance and marine reserve protection on the Great Barrier Reef. *Ecological Applications*

Masarei M, Guzzomi AL, Merritt DJ, Erickson TE (submitted). Ecologically guided restoration engineering to improve mine site restoration success in the Pilbara region of Western Australia. (ABSTRACT) In *13th International Conference on Mine Closure, 3-5 September 2019, Perth, Western Australia*

McClanahan TR, Schroeder RE, Friedlander AM, Vigliola L, Wantiez L, Caselle JE et al. [Wilson SK] (submitted). Global baselines and benchmarks for fish biomass: comparing remote and fisheries closures. *Marine Ecology Progress Series*

McGrath G, Kaesberg T, Silva JDR, Jawitz JW, Blumensaat F, Borchardt D et al. (submitted). Network topology and rainfall controls on combined sewer overflow variability. *Water Resources Research*

McKenzie NL, Bullen RD, Gibson LA (submitted). Habitat associations of zoophagous bat ensembles in north-western Australia. *Australian Journal of Zoology*

Millar MA, Anthony JM, Coates DJ, Byrne M, Krauss SL, Williams MR et al. (submitted). Genetic diversity, mating system and reproductive output of restored *Melaleuca acuminata* populations are comparable to natural remnant populations

Millar MA, Coates DJ, Byrne M, Krauss SL, Jonson J, Hopper SD (submitted). Assessment of genetic diversity and mating system of *Acacia cyclops* restoration and remnant populations

Miller R, Tangney R, Ooi M, Fontaine J, Ruthrof K, Merritt D et al. [Miller B] (submitted). Fire seasonality effects on plant populations: a review of mechanisms. *Trends in Ecology and Evolution*

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Mirfakhraei B, Veneklaas E, Stevens J, Krauss S (submitted). Seed sourcing for plant restoration: provenance effects alone do not categorically define seed sourcing methods under field conditions. (ABSTRACT) In *Society for Ecological Restoration, 8th World Conference on Ecological Restoration, Cape Town, South Africa, 22-27 September 2019*

Ottewell KM, Byrne M, Barrett MD, Barrett RL (submitted). Phylogenetic analysis of *Arivela* (Cleomaceae: Brassicales) reveals cryptic speciation, floral specialisation and contrasting patterns of dispersal

Owen B, Hallett C, Valesini F, Cosgrove J, Moheimani N (submitted). Long-term patterns in the phytoplankton community of the Swan Canning Estuary: findings from analyses of a 25-year dataset. (ABSTRACT) In *AMSA 2019 conference website and book of abstracts, 7-11 July 2019 Fremantle*

Owen B, Hallett C, Valesini F, Cosgrove J, Moheimani N (submitted). Evaluating the potential application of automated FlowCam® technology for phytoplankton monitoring in the Swan Canning Estuary. (ABSTRACT) In *AMSA 2019 conference website and book of abstracts, 7-11 July 2019 Fremantle*

Rampant P, Zdunic K, Burrows N (submitted). UAS and Landsat imagery to determine fuel condition for fire behaviour prediction on spinifex hummock grasslands of arid Australia. *International Journal of Remote Sensing*

Rayner K, Lohr C, Garretson S, Speldewinde P (submitted). Two species, one island: retrospective analysis of animal translocations with divergent outcomes. *Biological Conservation*

Roberts JD, Danks A, Berryman A, Sidhu N, Burbidge AH, Comer S (submitted). Population decline of the noisy scrub-bird is not correlated with territory size, marginal declines in rainfall or fire impacts. *Pacific Conservation Biology*

Robinson JPW, McDevitt-Irwin JM, Dajka JC, Hadj-Hammou J, Howlett S, Graba-Landry A et al. [Wilson SK] (submitted). Habitat and fishing control grazing potential on coral reefs. *Functional Ecology*

Ross CL, DeCarlo TM, McCulloch MT (submitted). Calibration of Sr/Ca, Li/Mg and Sr-U paleothermometry in branching and foliose corals. *Paleoceanography and Paleoclimatology*

Ruthrof KX, Fontaine JB, Breshears DD, Field JP, Allen CD (submitted). Extreme events trigger significant terrestrial and marine ecological impacts: a tale of two regions. (ABSTRACT) In *ESA19, Ecological Society of Australia 2019 annual conference, Launceston, Tasmania, 25-29 November 2019*

Ruthrof KX, Hopkins AJM, Danks M, O'Hara G, Bell R, Henry D et al. (submitted). Rethinking soil water repellency and its management. *Plant Science*

Rye B (submitted). Decorations galore: the new species *Babingtonia peteriana* (Myrtaceae: Chamelaucieae). *Nuytsia*

Rye B, Barrett M (submitted). *Verticordia elizabethiae*, a rare salt-tolerant new species from subgenus *Eperephes* (Myrtaceae: Chamelaucieae). *Nuytsia*

Rye BL, Macfarlane TD (submitted). A new name, clarification of synonymy, and a new subspecies for *Isopogon* (Proteaceae) in Western Australia. *Nuytsia*

Schmölz K, Pinder A, Kuchling G, Gollmann G (submitted). Evaluating novel wetlands for the assisted colonization of the western swamp turtle, *Pseudemydura umbrina* in a changing climate: macro-invertebrate communities, biomass and turtle diet. (ABSTRACT) In *SEH 2019, 20th European Congress of Herpetology, Milan, September 2019*

Shepherd KA (submitted). *Goodenia quartzitica* (Goodeniaceae), a new range-restricted species discovered in a remote part of the eastern Gascoyne bioregion. *Nuytsia*

Shepherd KA, Hislop M (submitted). Crystal clear: *Dampiera prasiolita* (Goodeniaceae), a distinctive new Western Australian species with translucent sepals. *Nuytsia*

Shepherd KA, Hislop M (submitted). Dancing lechenaultia: *Lechenaultia orchestris* (Goodeniaceae), a new species with horticultural potential from southern Western Australia. *Nuytsia*

Spencer PBS, McConnell S, Prada D, Friend JA (submitted). Parentage assignment using microsatellite DNA typing for the endangered numbat (*Myrmecobius fasciatus*). *Australian Mammalogy*

Steel E, Fontaine JB, Ruthrof KX, Burgess TI, Hardy GE St J (submitted). Changes in structure of over and midstory tree species in a Mediterranean-type forest after an extreme drought-associated heatwave. *Austral Ecology*

Svejcar L, Standish R, Fontaine J, Stevens J, Miller B (submitted). Inferring processes from fine scale patterns of seedling emergence and survival in post-mine restoration. (ABSTRACT) In *Society for Ecological Restoration, 8th World Conference on Ecological Restoration, Cape Town, South Africa, 22-27 September 2019*

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Thavornkanlapachai R, Mills HR, Ottewell K, Dunlop J, Sims C, Morris K *et al.* (submitted). Mixing genetically and morphologically distinct populations in translocations: asymmetrical introgression in a newly established population of the boodie (*Bettongia lesueur*). *Biological Conservation*

Thiele KR (submitted). The *Hibbertia polystachya* -*H. spicata* (Dilleniaceae) species group in Western Australia. *Nuytsia*

Thiele KR (submitted). Two new Western Australian species segregated from *Banksia densa* (Proteaceae). *Nuytsia*

Tomlinson S (submitted). The construction of small-scale, quasi-mechanistic spatial models of insect pollinator energetics in habitat restoration: the management potential of beetle pollination in Western Australia. *Journal of Applied Ecology*

Tomlinson S, Janes J, Munn A (submitted). An additional perspective on soil amendment in ecological restoration. *Science*

Trayler K (submitted). Hitting the target: taking a closer look at reporting on the Swan Canning. (ABSTRACT) In *AMSA 2019 conference website and book of abstracts, 7-11 July 2019 Fremantle*

Valentine L, Ruthrof K (submitted). Interview regarding quenda research

van Dongen R, Huntley B, Keighery G, Brundrett M (submitted). Monitoring vegetation recovery in the early stages of Dirk Hartog Island Restoration Program using high temporal frequency Landsat imagery. *Ecological Management & Restoration*

Waples K, Field S, Kendrick A, Johnston A, Twomey L (submitted). Strategic integrated marine science for the Kimberley region: new knowledge for better decisions and outcomes: WAMSI Kimberley Marine Research Program, a synthesis of research 2012-2018

Webber BL, Hopley T, Jucker T, van Leeuwen SJ, Morin L, Nagalingam K *et al.* [Byrne M] (submitted). Managing a stinking problem: understanding threats and improving weed control options for *Passiflora foetida* in Australia. (ABSTRACT) In *56th Annual Association for Tropical Biology and Conservation (ATBC) meeting, Antananarivo, Madagascar, 30 July-3 August 2019*

Wege JA (submitted). *Stylidium shepherdianum* (Stylidiaceae), a new boomerang triggerplant from Western Australia's mallee bioregion. *Nuytsia*

Wilkins CF, Shepherd KA (submitted). A key to the genus *Thomasia* (Malvaceae: Byttnerioideae). *Nuytsia*

Wills A, Farr J, Ward B, Williams M (submitted). Epigaeic macro-invertebrate richness responses to fire age in south-western Australia. *International Journal of Wildland Fire*

Wilson P, Thums M, Pattiaratchi C, Whiting S, Meekan M, Pendoley K (submitted). Waves as cues for swimming orientation in flatback turtle hatchlings. *Journal of Experimental Marine Biology and Ecology*

Woinarski JCZ, Braby MF, Burbidge AA, Coates D, Garnett ST, Fensham RJ *et al.* [McKenzie NL] (submitted). Reading the black book: the number, timing, distribution and causes of listed extinctions in Australia. *Biological Conservation*

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