

SCIENCE COMMUNICATIONS

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Science Communications lists titles of publications, reports etc prepared by staff of Biodiversity Science and Conservation. This issue is for the period August 2019-January 2020.

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Margaret Byrne
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Journal Publications

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Algar D, Morris K, Asher J (submitted). Eradication of feral cats, sheep and goats on Dirk Hartog Island, Western Australia: a precursor to native species re-introductions and ecological restoration. *Wildlife Research*

Anderson H, Palmer R (submitted). Working together on country achieves goals for quolls. *Robe River Kuruma Aboriginal Corporation Newsletter*

Anke Seidlitz, Kate A. Bryant, Nicola J. Armstrong, Michael Calver, Adrian F. Wayne (submitted). Optimising camera trap height and model increases detection and individual identification rates for a small mammal. *Remote Sensing in Ecology and Conservation*

Benkwitt CE, Wilson SK, Graham NAJ (submitted). Biodiversity increases ecosystem functions despite multiple stressors in a hyperdiverse system. *Nature Ecology and Evolution*

Bergstrom DM, Wienecke BC, van den Hoff J, Hughes L, Lindenmayer DL, Ainsworth TD et al. (submitted). Ecosystem collapse from the tropics to the poles. *Nature*

Birch N, Dunlop J, Moore H, Cowan M (submitted). Northern quoll targeted surveys in the Chichester Ranges

Bishop MJ, Alleway HK, Bay LK, Booth DJ, Brown B, Burrows D et al. [Sinclair E] (submitted). From little things big things grow: towards large-scale repair of coastal ecosystems. *Annals of Botany*

Blythman M, Porter G (submitted). Movement of introduced little corellas *Cacatua sanguinea* and eastern long-billed corellas *Cacatua tenuirostris* in south-west Western Australia. *Australian Field Ornithology*

Braby MF, Edwards ED, Williams AAE (submitted). A new species of sun-moth, *Synemon kimberleyensis* sp. nov. (Lepidoptera: Castniidae), from the Kimberley in Western Australia. *Journal of the Lepidopterists' Society*

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Butt N, Wenger AS, Lohr C, Woodberry O, Morris K, Pressey RL (submitted). Predicting and managing plant invasions on offshore islands. *Oceania*

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Dillon S, Macfarlane T (submitted). Leeuwen's lily (*Arthropodium vanleeuwenii*: Asparagaceae), a remarkable new discovery from the Pilbara, Western Australia. *Nuytsia*

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Donovan R, Shepherd KA (submitted). A systematic study of the presence of dimethyltryptamine and related psychoactive substances in Western Australian acacias. (ABSTRACT) In *22nd Triennial Meeting of the International Association of Forensic Sciences In conjunction with the 25th Symposium of the Australian & New Zealand Forensic Science Society 21-25 September 2020, International Convention Centre Sydney, Australia (<https://iafs2020.com.au/>)*

Duncan RP, Dexter N, Wayne A, Hone J (submitted). Eruptive dynamics are common in recovering and translocated mammal populations. *Ecology*

Dziminski M, Carpenter F (submitted). Abundance monitoring of bilbies at Mount Gibson Sanctuary, Western Australia, using DNA extracted from scats

Elise S, Urbina-Barreto I, Guilhaumon F, Bailly A, Mou-Tham G, Pinel R et al. [Robbins WD] (submitted). Passive Acoustic Monitoring (PAM): an emerging operational tool to assess the functioning of coral reef ecosystems. (ABSTRACT) In *14th International Coral Reef Symposium: Bremen, Germany, 5-10 July 2020*

Elliott C, Turner S (submitted). Experimental translocation of the threatened banded ironstone wedding bush in Western Australia. In *Global Re-introduction Perspectives (7th issue)*

Etchells H, O'Donnell AJ, McCaw WL and Grierson PF (submitted). Fire severity impacts on tree mortality and post-fire recruitment in tall eucalypt forests of southwest Australia. *Forest Ecology and Management*

Evans RD, Wilson SK, Fisher R, Ryan NM, Babcock R, Blakeway D et al. (submitted). Early recovery dynamics of turbid coral reefs after recurring bleaching events. *Journal of Environmental Management*

Fulton CJ, Berkström C, Wilson SK, Abesamis RA, Bradley M, Åkerlund C et al. [Evans RD, Holmes TH] (submitted). Complex macroalgal habitats underpin fish and fisheries in tropical seascapes. *Fish and Fisheries*

Gosper C, Yates CJ, Zdunic K, McCaw WL, Prober SM (submitted). Habitat loss or habitat change? Misattribution of burnt habitat as clearing by Ward et al. 2019 emphasises importance of validating remotely-sensed data. *Conservation Science and Practice*

Graham NAJ, Robinson JPW, Smith SE, Govinden R, Gendron G, Wilson SK (submitted). Changing role of coral reef marine reserves in a warming climate. *Nature Climate Change*

Gunn B, Murphy D, Walsh N, Conran J, Pires JC, Macfarlane T et al. (submitted). Evolution of Lomandroideae Thorne & Reveal (Asparagaceae Jussieu): multiple origins of polyploidy and biome occupancy in Australia. *Molecular Phylogenetics and Evolution*

Guzzomi A, Masarei M, Erickson T, Merritt D, Hobbs R (submitted). Engineering restoration for the future. *Frontiers in Ecology and the Environment*

Hislop M (submitted). *Leucopogon kirupensis* (Ericaceae: Epacridoideae: Styphelieae), a new short-range endemic from the southwest corner of Western Australia. *Nuytsia*

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Hislop M (submitted). *Schoenus coultasii* (Cyperaceae: Schoenae), a new annual species known from a single site in the Pilbara region of Western Australia. *Nuytsia*

Huisman J., Verbruggen H (submitted). *Pseudoderbesia eckloniae* sp. nov. (Bryopsidaceae, Ulvophyceae) from Western Australia. *Cryptogamie, Algologie*

Huisman JM, Saunders GW (submitted). Out of the dark: *Leptofaucha lucida* (Faucheaceae, Rhodymeniales), a new red algal species from the Houtman Abrolhos, Western Australia. *Nuytsia*

Johnston M, Algar D, O'Donoghue M, Quinn J (submitted). Measurements of efficacy rates of the Curiosity® bait for feral cats in open landscapes during the development of the product. *Wildlife Research*

Kildisheva O, Dixon KW, Silveira F, Chapman T, Di Sacco A, Mondoni A et al. [Turner SR] (submitted). Dormancy and germination: making every seed count in restoration. *Restoration Ecology*

Knight KJ, Lado C (submitted). *Clastoderma confusum* (Myxomycetes: Amoebozoa), a remarkable new species of slime mould from Western Australia. *Nuytsia*

Leopold M, Drake P, Lowe M-A, McGrath G, Stevens J, Veneklaas EJ (submitted). Changes to tree water storage and flux in response to out-of-season extreme summer rainfall. *Science of the Total Environment*

Lilburn K (submitted). Kelly Lilburn, volunteer, Department of Biodiversity, Conservation and Attractions. In *Australia Seed Bank Partnership annual report 2018-19*

Lohr C, Algar D (submitted). Managing feral cats through an adaptive framework in an arid landscape

Lohr C, Algar D (submitted). Managing feral cats through an adaptive framework in an arid landscape. (ABSTRACT) In *Goldfields Environmental Management Group 2020 Conference, 20-22 May 2020, Kalgoorlie*

Lohr MT, Lohr CA, Burbidge AH, Davis RA (submitted). *Toxoplasma gondii* seropositivity across urban and agricultural landscapes in an Australian owl. *Emu: Austral Ornithology*

Macfarlane TD (submitted). Nowhere to be seen: *Deyeuxia abscondita* (Poaceae), a new but presumed extinct species from south-western Australia. *Nuytsia*

Macfarlane TD, Brown AP, French CJ (submitted). *Wurmbea flavanthera* (yellow-anthered Nancy: Colchicaceae), a new species from Western Australia's mid west region. *Nuytsia*

Macfarlane TD, Conran JG, French CJ (submitted). *Caesia arcuata* (Hemerocallidaceae) from Western Australia, a new rarity with curved inflorescence branches. *Nuytsia*

Macfarlane TD, Ross JH, Smith J-A, Hearn RW (submitted). Formal naming of *Bossiaea reptans* (Fabaceae), an endangered species from the Warren region, Western Australia. *Nuytsia*

MacNeil MA, Chapman D, Heupel M, Simpfendorfer CA, Heithaus M, Meekan M et al. [Goetze J] (submitted). Global status and conservation potential of tropical reef sharks. *Nature*

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Manero A, Young R, Miller B, Jasper D, Kragt M, Standish R et al. (submitted). A framework for developing mine-site completion criteria. *Journal of Environmental Management*

Maneveldt GW, Gabrielson PW, Townsend RA, Kangwe J (submitted). *Lithophyllum longense* (Corallinales, Rhodophyta): a species with a widespread Indian Ocean distribution. *Phytotaxa*

Masarei M, Astfalck L, Guzzomi A, Merritt D, Erickson T (submitted). Soil rock content influences the maximum seedling emergence depth of a dominant arid zone grass. *Journal of Applied Ecology*

McLay T, Dillon S (submitted). The golden-goo hibiscus (*Hibiscus chrysinocola*, Malvaceae), a new species from Katjarra, Western Australia. *Nuytsia*

Moriera F, Ascoli D, Safford H, Adams MA, Moreno JM, Pereira JMC et al. [McCaw L] (submitted). Wildfire management in Mediterranean-type regions: paradigm shift needed. *Environmental Research Letters*

Mounsey C, Stevens J, Renton M, Dixon K, Miller B (submitted). The influence of environmental drivers and restoration intervention methods on post-mine restoration trajectories. *Restoration Ecology*

Moustaka M, Strydom S (submitted). Getting hammered: great hammerhead predation of a critically endangered wedgefish. *Coral Reefs*

O'Donnell A, McCaw L, Cook E, Grierson P (submitted). Drought risk for WA's major agricultural region: insights from a 500-year proxy rainfall record. (ABSTRACT) In *Australian Meteorological & Oceanographic Society Annual Meeting and the International Conference on Indian Ocean Meteorology and Oceanography (AMOS 2020)*, Fremantle, WA, 10-14 February 2020

Pacioni C, Trocini S, Wayne AF, Rafferty C, Page M (submitted). Integrating population genetics in an adaptive management framework to inform management strategies. *Biodiversity and Conservation*

Pinder A, Lewis L, Shiel R (submitted). Aquatic invertebrates of three wetlands in the Great Sandy Desert sampled in September 2018

Plucinski M, Sullivan A, McCaw L (submitted). Comparing the performance of daily forest fire danger summary metrics for estimating fire activity in southern Australian forests. *International Journal of Wildland Fire*

Pratchett MS, Caballes CF, Newman SJ, Wilson SK, Messmer V, Pratchett DJ (submitted). Bleaching susceptibility of aquarium corals collected from marginal reef environments across northern Australia. *Coral Reefs*

Rajapakshe S, Turner SR, Cross AT, Tomlinson S (submitted). Hydrological and thermal responses of seeds from four co-occurring tree species from southwest Western Australia. *Oikos*

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Raudino H, D'Cruz E, Waples K, Barrow D (submitted). Dambimangari Rangers Joint Management tropical inshore dolphin survey in Lalang-garram/Camden Sound Marine Park, 23-30 Sept 2019

Richards B, Sullivan M, Mawson PR (submitted). A case study of environmental offsets for the endangered Carnaby's cockatoo (*Calyptorhynchus latirostris*). *Pacific Conservation Biology*

Ross C (submitted). Monitoring the Montebello and Barrow islands marine life. *Monte-Barrow News*

Ruthrof KX, Fontaine JB, Breshears DD, Field JP, Allen CD (submitted). Extreme events trigger terrestrial and marine ecosystem collapses: a tale of two regions. In *Ecosystem Collapse and Climate Change* (eds P Canadell, R Jackson).

Saunders DA, Dawson R, Mawson PR, Cunningham RB (submitted). Artificial hollows provide an effective short-term solution to the loss of natural nesting hollows for Carnaby's cockatoo *Calyptorhynchus latirostris*. *Biological Conservation*

Saunders DA, Mawson PR, Dawson R (submitted). Predation by southwestern carpet python *Morelia spilota imbricata* of Carnaby's cockatoo *Calyptorhynchus latirostris* in a breeding hollow. *Australian Zoologist*

Seidlitz A, Bryant KA, Armstrong NJ, Calver M, Wayne AF (submitted). Sign surveys are more efficient and cost-effective than driven transects and camera trapping: a comparison of detection methods for a small mammal. *Wildlife Research*

Shepherd KA, Lepschi BJ, Johnson EA, Gardner AG, Sessa EB, Jabaily RS (submitted). The concluding chapter: recircumscription of *Goodenia* (*Goodeniaceae*) to include four allied genera with an updated infrageneric classification. *Phytokeys*

Sinclair EA, Edgeloe JM, Anthony JM, Statton J, Breed MF, Kendrick GA (submitted). Finding a balance: low genetic diversity, pollen limitation and elevated salinity lower sexual reproduction in extensive trailing edge meadows in a World Heritage Site. *Annals of Botany*

Spencer B, Bartle J, Huxtable D, Mazanec R, Abadi A, Gibberd M et al. (submitted). A decadal multi-site study of the effects of frequency and season of harvest on biomass production from mallee eucalypts. *Forest Ecology and Management*

Spencer B, Mazanec R, Abadi A, Gibberd M, Zerihun A (submitted). Flowering phenology in a *Eucalyptus loxophleba* subsp. *lissophloia* and *gratiae* seed orchard, heritability and genetic correlation with biomass production and cineole: implications for breeding strategy. *Tree Genetics and Genomes*

Spencer PBS, Bain K, Hayward MW, Hillyer M, Friend JA (submitted). Persistence of remnant patches and genetic structure of island and mainland populations of the world's happiest marsupial, the quokka. *Australian Journal of Zoology*

Spencer PBS, Friend JA, Sims C, Page M, Eldridge MDB (submitted). Sourcing the best island individuals for reintroduction, an example with the banded hare-wallaby (*Lagostrophus fasciatus*). *Australian Mammalogy*

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Strydom S, Murray K, Wilson S, Huntley B, Rule M, Heithaus M, et al. [Zdunic K] (submitted). What's hot and what's not: quantifying unprecedented seagrass death following a marine heatwave. *Global Change Biology*

Thomson DP, Babcock RC, Haywood MDE, Vanderkluft MA, Pillans RD, Bessey C et al. [Wilson SK] (submitted). Divergent long-term trends in coral genera and growth-forms in multiple adjacent reef zones. *Coral Reefs*

Tucker AD, Pendoley KL, Murray K, Loewenthal G, Barber C, Denda J et al. [Whiting SD] (submitted). Aerial surveys define the sea turtle nesting distribution and abundance for Australia's Kimberley region. *Endangered Species Research*

Turner S, Bunn E, Elliott C (submitted). Experimental translocation of the endangered pearl-like androcalva in south-west Western Australia. In *Global Re-introduction Perspectives (7th issue)*

Tweedley JR, Poh B, Crisp JA, Trayler KM, Loneragan NR (submitted). To stock or not to stock: the estuarine enhancement paradox. (ABSTRACT) In *10th FSU-Mote International Symposium on Fisheries Ecology and the 6th International Symposium on Stock Enhancement and Sea Ranching: Mote Marine Laboratory, Sarasota, Florida, USA, 10-14 November 2019*

Vanderkluft MA, Babcock RC, Barnes PB, Cresswell AK, Feng M, Haywood MDE et al. [Holmes TH, Tucker AD, Waples K, Wilson SK] (submitted). The oceanography and marine ecology of Ningaloo, a World Heritage Area. *Oceanography and Marine Biology: an Annual Review*

Weier A, Radford I, Woolley LA, Lawes M, Balangarra Rangers (submitted). The impacts of fire regimes on key resources for the threatened Gouldian finch: science for policy, research findings factsheet, project

White L, Taffs K, Catterall C, Tomlinson S (submitted). Rare or overlooked? The distribution of hairy jointgrass (*Arthraxon hispidus*, Poaceae) in north coast NSW, Australia, and implications for threatened species conservation. *Journal for Nature Conservation*

Wills AJ, Farr JD (submitted). Does climate dominate vegetation and fire effects on male *Uraba lugens* moth catch by pheromone traps? *Austral Entomology*

Wilson S (submitted). Update of Marine Science Program research and monitoring. *Australian Society of Fish Biology annual newsletter*

Woinarski JCZ, Legge SM, Woolley LA, Palmer R, Dickman CR, Augusteyn J et al. (submitted). Predation by introduced cats *Felis catus* on Australian frogs: compilation of species' records and estimation of numbers killed. *Wildlife Research*

Woolley L-A, Murphy BP, Geyle HM, Legge SM, Palmer R, Dickman CR et al. (submitted). Introduced cats eating a continental fauna: invertebrate consumption by feral cats, *Felis catus* in Australia. *Wildlife Research*

Wrigley D, Crawford A, Phoebe T, students, other TBA (submitted). *Australasian Plant Conservation*

Zamborain-Mason J, Cinner JE, Connolly SR, MaNeil MA, Graham NAJ, Hoey AS et al. [Wilson SK] (submitted). Sustainability of the world's coral reef fisheries. *Nature*

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Zarco-Perello S, Langlois TJ, Holmes TH,
Vanderkluft MA, Wernberg T (submitted).
New kelp shredders: overwintering tropical
herbivores accelerate detritus production
on temperate reefs. *Proceedings of the
Royal Society*

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