

SCIENCE COMMUNICATIONS

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Science Communications lists titles of publications, reports etc prepared by staff of the Science and Conservation Division. This issue is for the period February-June 2016.

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Margaret Byrne
Director

Journal Publications

- Austen JM, Papparini A, Reid SA, Friend JA, Ditcham WG, Ryan U (2016). Molecular characterization of native Australian trypanosomes in quokka (*Setonix brachyurus*) populations from Western Australia *Parasitology International* **65**, 205-208 <http://library.dpaw.wa.gov.au/static/StaffOnly/C19926.pdf>
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- Cochrane A (2016). Can sensitivity to temperature during germination help predict global warming vulnerability? *Seed Science Research* **26**, 14-29 <http://library.dpaw.wa.gov.au/static/StaffOnly/C19770.pdf>
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Burbidge AH, Joseph L, Toon A, White LC, Austin JJ (submitted). A case for recognizing two species in the southern Australian whipbirds long recognized as the western whipbird, *Psophodes nigrogularis* *Emu - Austral Ornithology*

Burgess TI, Scott JK, McDougall KI, Stukely MJC, Crane C, Dunstan WA et al. (submitted). Current and projected global distribution of *Phytophthora cinnamomi*, one of the world's worst plant pathogens *Global Change Biology*

Butcher R, Davis R, Albrecht D, Jobson P (submitted). Vascular plants report: Kiwirrkurra Indigenous Protected Area, Western Australia, 6/9/15-18/9/15

Carpenter F, Dziminski M (submitted). Breaking down scats: degradation of DNA from greater bilby (*Macrotis lagotis*) faecal pellets *Wildlife Research*

Clayton H, Saladie M, Sharwood R, Rolland V, Macfarlane T, Hattersley P et al. (submitted). Alternative splicing of α -carbonic anhydrase genes and implications for the evolution of C4 photosynthesis in the grass subtribe Neurachninae (POSTER ABSTRACT) In *Conference presentation. (C4 Photosynthesis: 50 years of discovery and innovation (10-13 April 2016, Canberra))*

Cochrane A (submitted). Predicting patterns of seed germination in Western Australian *Eucalyptus* L'Her. (Myrtaceae) under global warming (ABSTRACT) In *Proceedings of the Seed Ecology V conference, Caeté, Brazil, August 21-25, 2016*

Cochrane A (submitted). Can we predict species vulnerability to global warming by investigating temperature thresholds for seed germination? A case study of Western Australian *Banksia* *The Botanic Gardener*

Cochrane A (submitted). Parks and people: maximising the benefits of conservation (ABSTRACT) In *11th Australasian Plant Conservation Conference (APCC11), Melbourne 14-18 November, 2016*

Cochrane A (submitted). Seed dormancy response of four Western Australian *Acacia* to long duration, warm temperature fluctuations (ABSTRACT) In *Ecological Society of Australia conference, Fremantle 28 Nov to 2 Dec, 2016*

Dakin N, Kadereit G, Shepherd K, Macfarlane T, Ludwig M (submitted). Phylogenetic analysis of *Tecticornia* using the external transcribed spacer (ETS) nuclear marker: insights into the evolution of C4 photosynthesis (POSTER ABSTRACT) In *Conference presentation. (C4 Photosynthesis: 50 years of discovery and innovation (10-13 April 2016, Canberra))*

Darling E, Graham N, Januchowski-Hartley F, Nash K, Pratchett M, Wilson S (submitted). Relative influence of structural complexity and coral functional traits on the structure of reef fish assemblages *Coral Reefs*

Davis R, Hammer T, Thiele K (submitted). A new and rare species of *Nymphoides* (Menyanthaceae) from the northwest of Western Australia *Nuytsia*

Dexter N, Wayne A, Hone J, Hudson M (submitted). Predicting a feature of the threatened species rollercoaster: the time until abundance of a recovered population subsequently declines *Journal of Applied Ecology*

Evans R, Holmes T, Shedrawi G (submitted). Recruitment processes: a tale of survival *Landscape*

Gardner A, Jabaily RS, Fitz Gerald J, Shepherd KA, Howarth D (submitted). Reconstructing floral shape evolution in the Core Goodeniaceae using geometric morphometrics and densely sampled phylogenies (ABSTRACT) In *Botanical Society of America Botany 2016 Conference: Celebrating Our History, Conserving*

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Our Future, July 28-August 3, Savannah, Georgia

Gosper CR, O'Donnell AJ, Yates CJ, Prober SM, Grierson PF, McCaw WL (submitted). Better planning outcomes require adequate data and ecological understanding to be successful and credible: a reply to Evans et al. *Biological Conservation*

Gosper CR, Prober SM, Yates CJ (submitted). The multi-century age-class distribution of Western Australian temperate woodlands after stand-replacement fires In *Ecological Society of Australian Annual Conference*

Griffiths M, Keighery G (submitted). *Protea repens* (L.) L. (Proteaceae), a new naturalised record for Australia *Western Australian Naturalist*

Hamilton NA, Onus M, Withnell B, Withnell K (submitted). Recent sightings of the night parrot (*Pezoporus occidentalis*) from Lorna Glen (Matuwa) and Millrose stations in Western Australia *Australian Field Ornithology*

Han J, Berger B, Ricigliano V, Gardner A, Shepherd KA, Jabaily RS et al. (submitted). Phylogenetics and expression of CYCLOIDEA-like genes in Goodeniaceae (ABSTRACT) In *Botanical Society of America Botany 2016 Conference: Celebrating Our History, Conserving Our Future, July 28-August 3, Savannah, Georgia*

Hislop M (submitted). New species of Leucopogon (Ericaceae: Styphelioideae: Styphelieae) from the Geraldton sandplains *Nuytsia*

Hofstede L, Dziminski M (submitted). Greater bilby (*Macrotis lagotis*) burrows: important structures for a range of species in an arid environment. *Oecologia*

Holmes T (submitted). Monitoring fish communities at Ningaloo Reef (POSTER) In *Ningaloo Whale Shark Festival*

Holmes T (submitted). Fish recruitment at Ningaloo Reef (POSTER) In *Ningaloo Whale Shark Festival*

Hughes O, Choudhury B, Shepherd KA, Dillon S, Jabaily RS (submitted). Molecules to the rescue: clarification of new Australian wildflower species in *Goodenia* Clade B to facilitate conservation (ABSTRACT) In *Botanical Society of America Botany 2016 Conference: Celebrating Our History, Conserving Our Future, July 28-August 3, Savannah, Georgia*

Huisman JM (submitted). Marine plants In *Tropical Australian Marine Life. The Plants and Animals of the Central Indo-Pacific* (by Graham Edgar).

Huisman JM (submitted). Cyanobacteria In *Tropical Australian Marine Life. The Plants and Animals of the Central Indo-Pacific* (by Graham Edgar).

Huisman J, Kendrick A (submitted). Now you see me *Landscape*

Huisman JM (submitted). Ceramiales; Callithamniaceae; Dasyaceae In *Engler's Syllabus of Plant Families*

Huisman JM, Baldock RN (submitted). The marine benthic algae of South Australia *Swainsona*

Ingram B, Pitt K, Barnes P (submitted). Juvenile ophiuroids associated with *Aurelia aurita*, the moon jellyfish, in Western Australia

Jabaily RS, Gardner A, Sessa EB, Michener P, Johnson E, Shepherd KA (submitted). Molecules, morphology, and monophyly: revising the enigmatic Australian clade *Goodenia* s.l. (Goodeniaceae) using comprehensive sampling and big data (ABSTRACT) In *Botanical Society of America Botany 2016 Conference: Celebrating Our History, Conserving Our Future, July 28-August 3, Savannah, Georgia*

Johnston M, McCaldin G, Reiker A (submitted). Assessing the availability of aerially-delivered baits to feral cats through rainforest canopy using unmanned aircraft *Journal of Unmanned Vehicle Systems*

Keighery G (submitted). Emerging environmental weed issues for Western Australia (ABSTRACT) In *Conference Booklet of 20th Australian Weeds Conference*

Keighery G (submitted). Status of *Paspalum distichum* L. and *P. vaginatum* SW. (Poaceae) in Western Australia *Western Australian Naturalist*

Koch K, Algar D, Searle JB, Pfenninger M, Schwenk K (submitted). Feral cats: dispersal and origin in Hawaii and Australia (ABSTRACT) In *Society of Conservation Biology Oceania conference in Brisbane, 6 July*

Lebel T, May T, Robinson R, Bonito G, Cooper J (submitted). Australasian roll-rims: a revision of *Austropaxillus* and *Gymnopaxillus* (POSTER ABSTRACT) In *Conference abstracts, Australian Mycological Society Scientific Meeting, 4-5 May 2016, Queenstown, NZ*

Lohr CA, Bode M, Brotánková J, Dickman C, Hone J, Wenger A et al. (submitted). Modelling dynamics of native and invasive species in response to management In *Ecological Society of Australian Annual Conference*

Lohr M, Keighery G (submitted). Status of *Quercus* (Fagaceae) in Western Australia *Western Australian Naturalist*

Lozano-Montes HM, Keesing JK, Grol MG, Haywood M, Vanderklift MA, Babcock RC et al. [Bancroft K] (submitted). Limited effects of an extreme flood event on coral reefs at Ningaloo Reef *Coral Reefs*

Michener P, Sessa EB, Bush C, Shepherd KA, Jabaily RS (submitted). Grow a backbone: mitochondrial exome sequencing provides a surprisingly rich source of phylogenetically informative characters in the enigmatic

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Australian clade *Goodenia s.l.* (ABSTRACT) In *Botanical Society of America Botany 2016 Conference: Celebrating Our History, Conserving Our Future, July 28 -August 3, Savannah, Georgia*

Molloy S, Davis R, Dunlop J, van Etten E (submitted). Predictive distribution modelling can inform the management of threatened species: a case study using the Pilbara northern quoll *Biodiversity and Conservation*

Page CA, Field SN, Pollock F, Lamb JB, Shedrawi G, Wilson SK (submitted). Assessing coral health and disease from digital photographs and *in situ* surveys *Environmental Monitoring and Assessment*

Radford I, Everitt C, Corey B (submitted). King brown and *Varanus* are dead, long live python and colubrid: contrasting toxic invader impacts on apex- and meso-predators in a savanna ecosystem *Austral Ecology*

Robinson RM, Stefani F, May TW, Syme K (submitted). Molecular identification and phylogenetic analysis of stipitate hydroid fungi from southwestern Australia (POSTER ABSTRACT) In *Conference abstracts, Australian Mycological Society Scientific Meeting, 4-5 May 2016, Queenstown, NZ*

Rye BL (submitted). An expanded circumscription and new infrageneric classification *Rinzia* (Myrtaceae: Chamelaucieae) *Nuytsia*

Saunders DA, Dawson R (submitted). Age-related breeding failure rate in the endangered Carnaby's cockatoo, *Calyptorhynchus latirostris* *Conservation Physiology*

Scott JK, McKirdy SJ, van der Merwe J, Green R, Burbidge AA, Pickles G et al. [Morris K] (submitted). Comprehensive biosecurity protects high-conservation-value island nature reserve from intensive development *Nature*

Shedrawi G (submitted). Reef research on the Ningaloo coast *Reef Check Newsletter*

Shedrawi G, Falter J, Friedman KJ, Lowe R, Pratchett MS, Simpson C et al. [Speed CW, Wilson S] (submitted). Localised hydrodynamics influence vulnerability of coral communities to environmental disturbances *Coral Reefs*

Simamora AV, Stukely MJC, Barber PA, Hardy GE St J, Burgess TI (submitted). Age-related susceptibility of *Eucalyptus* species to *Phytophthora boodjera* *Plant Pathology*

Stuart-Smith RD, Edgar GJ, Barrett NS, Bates AE, Baker SC, Bax NJ et al. [Holmes TH] (submitted). Continental-scale assessment of biodiversity trends on Australia's rocky and coral reefs *Bioscience*

Sweatman H, Babcock R, Evans S, Gilmour J, Heyward A, Richards Z et al. [Wilson S] (submitted). The state and trends of quality of habitats and communities: coral reefs (25m) In *State of the Environment*

Van Keulen M, Huisman JM (submitted). Seagrasses In *Tropical Australian Marine Life. The Plants and Animals of the Central Indo-Pacific* (by Graham Edgar).

Weier A, Lawes M, Radford I (submitted). Recently but infrequently and patchily burnt breeding sites favoured by threatened Gouldian finch *International Journal of Wildland Fire*

Williams AAE, Williams MR (submitted). A new species of Synemon Doubleday (Lepidoptera: Castniidae) from Western Australia *Australian Entomologist*

Yeatman G, Wayne AF, Mills H, Prince J (submitted). Fine-scale vegetation and landscape characteristics associated with the abundance of a critically endangered marsupial at regional and local scales *Global Ecology and Conservation*

Yeatman G, Wayne AF, Mills H, Prince J (submitted). Temporal patterns in the abundance of a critically endangered marsupial relates to disturbance by roads and agriculture *PLoS One*

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