

# SCIENCE COMMUNICATIONS

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Science Division 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  
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*Science Communications* lists titles of publications, reports etc prepared by Science Division staff. This issue is for the period ending July 2010.

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A/Director  
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## Journal Publications

- Abbott I (2009). Aboriginal names of bird species in south-west Western Australia, with suggestions for their adoption into common usage. *Conservation Science Western Australia* **7**, 213-278
- Abbott I, le Maitre D (2010). Monitoring the impact of climate change on biodiversity: the challenge of megadiverse Mediterranean climate ecosystems. *Austral Ecology* **35**, 406-422
- Abbott I, Liddel G, Vellios C, Mellican A, Williams M (2009). Monitoring bird populations after logging in forests of south-west Western Australia: an update from two long-term experimental research case studies. *Conservation Science Western Australia* **7**, 301-347
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- Bougher NL (2009). Status of the genera *Hymenangium* and *Descomyces*. *Mycotaxon* **108**, 313-318
- Bougher NL (2009). Two intimately co-occurring species of *Mycena* section *Sacchariferae* in south-west Australia. *Mycotaxon* **108**, 159-174
- Bougher NL (2010). First record for Australia of the wood-inhabiting fungus, *Hemimycena cephalotricha*: from urban bushland in Perth, Western Australia. *Western Australian Naturalist* **27**, 91-98
- Bougher NL (2010). History of the study of fungi at Kings Park, Perth, Western Australia. *Western Australian Naturalist* **27**, 61-90
- Bougher NL, Friend JA (2009). Fungi consumed by translocated Gilbert's potoroos (*Potorous gilbertii*) at two sites with contrasting vegetation, south coastal Western Australia. *Australian Mammalogy* **31**, 97-105

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- Burrows N, Ward B, Robinson A (2010). Fire regimes and tree growth in low rainfall jarrah forest of south-west Australia. *Environmental Management* **45**, 1332-1343
- Byrne M, Hankinson M, McArthur S (2009). Characterization of microsatellite markers isolated from *Bossiaea ornata* (Lindl.) Benth. (Papilionaceae). *Conservation Genetics* **10**, 1985-1987
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- Gibson LA, McKenzie NL (2009). Environmental associations of small ground-dwelling mammals in the Pilbara region, Western Australia. *Records of the Western Australian Museum Supplement* **78**, 91-122
- Gioia P (2010). Managing biodiversity data within the context of climate change: towards best practice. *Austral Ecology* **35**, 392-405
- Glen AS (2010). Hybridisation between dingoes and domestic dogs: a comment on Jones (2009). *Australian Mammalogy* **32**, 76-77
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- Hamilton T, Wittkuhn RS, Carpenter C (2009). Creation of a fire history database for southwestern Australia: giving old maps new life in a geographic information system. *Conservation Science Western Australia* **7**, 429-450
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- Heterick BE, Durrant B, Gunawardene NR (2010). The ant fauna of the Pilbara Bioregion, Western Australia. *Records of the Western Australian Museum Supplement* **78**, 157-167
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- Hislop M (2009). New taxa in the *Leucopogon gracilis* group (Ericaceae: Styphelioideae: Styphelieae). *Nuytsia* **19**, 211-228
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- Köhler F (2010). Three new species and two new genera of land snails from the Bonaparte Archipelago in the Kimberley, Western Australia (Pulmonata: Camaenidae). *Molluscan Research* **30**, 1-16
- Kroiss L, Moody M, Barker SJ, Byrne M, Ryan MH (2009). Development, characterization and transferability of microsatellite markers for *Cullen australasicum* (Leguminosae). *Conservation Genetics* **10**, 1803-1805
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- McKellar R, Midgley GF, Yates CJ, Abbott I, Gioia P, le Maitre D (2010). The need to develop a coherent research approach for climate change vulnerability impact assessment and adaptation in high-biodiversity terrestrial ecosystems. *Austral Ecology* **35**, 371-373
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- Wilson SK, Adjeroud M, Bellwood DR, Berumen ML Booth D, Bozec Y-M et al. (2010). Crucial knowledge gaps in current understanding of climate change impacts on coral reef fishes. *Journal of Experimental Biology* **213**, 894-900
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- Yates CJ, Elith J, Latimer AM, le Maitre D, Midgley GF, Schurr FM, West AG (2010). Projecting climate change impacts on species distributions in megadiverse South African cape and southwest Australian floristic regions: opportunities and challenges. *Austral Ecology* **35**, 374-391
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### **Books/Chapters**

- Burbidge A (2009). Extinction, decline and recovery in Australia's terrestrial mammal fauna. *In: Art, Science and the Environment: a Festschrift in Honour of Emeritus Professor Don Bradshaw, Chair of Zoology 1976-2004, the University of Western Australia* pp. 277-293. University of Western Australia Press, Crawley.
- Byrne M, Stone L, Millar M (2009). Environmental risk in agroforestry. *In: Agroforestry for Natural Resource Management* (eds I Nuberg, B George, R Reid). pp. 107-126. CSIRO Pub, Collingwood.
- Cochrane A, Crawford AD, Offord CA (2009). Seed and vegetative material collection. *In: Plant Germplasm Conservation in Australia: Strategies and Guidelines for Developing, Managing and Utilising Ex Situ Collections. Fully rev ed* (eds CA Offord, PF Meagher). pp. 35-62. Australian Network for Plant Conservation, Canberra.
- Jones S, Francis C, Leung A, Pinder A (2009). Aquatic invertebrates and waterbirds of wetlands in the Avon region. Department of Environment and Conservation, Kensington, WA. 156 p.
- Steffen W, Burbidge AA, Hughes L, Kitching R, Lindenmayer D, Mulgrave W et al. (2009). Australia's Biodiversity and Climate Change. CSIRO Pub, Collingwood. 236 p.
- Taggart DA, Schultz DJ, Fletcher TP, Friend JA, Smith IG, Breed WG et al. (2010). Cross-fostering and short-term pouch young isolation in macropodoid marsupials: implications for conservation and species management. *In: Macropods: the Biology of Kangaroos, Wallabies and Rat-Kangaroos* (eds G Coulson, M Eldridge). pp. 263-278. CSIRO Pub, Collingwood.
- Thomson-Dans C, Johnson B (2009). Mammals of north-western Australia. Department of Environment and Conservation, Western Australia, Bush Books Department of Environment and Conservation, Kensington, WA. 72 p.
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- Burbidge A (ed) (2009). Carnaby's Black-Cockatoo Symposium: Monday 1st December, 2008, Department of Environment and Conservation, Kensington: proceedings, September 2009. WWF-Australia, Sydney. 56 p.
- Burbidge A, Mitchell D, Roache M (2009). Overview of the Carnaby's Black-Cockatoo Symposium. *In: Carnaby's Black-Cockatoo Symposium: Monday 1st December, 2008, Department of Environment and Conservation, Kensington: Proceedings, September 2009* (ed A Burbidge). p. 5. WWF-Australia, Sydney.
- Gamblin T, Williams MR, Williams AAE, Richardson J (2009). The ant, the butterfly and the bulldozer (POSTER). Department of Environment and Conservation, Kensington, WA.
- Gosper CR, Prober SM, Yates CJ, Parsons BC (2009). Changes in vegetation structure and composition after fire in two Australian Mediterranean-climate plant communities: poster presented at the 2009 Fire Ecology and Management Congress (POSTER). Department of Environment and Conservation, Kensington, WA.
- Hollis JJ, McCaw WL (2009). Behind the flaming zone: woody fuel consumption and fireline intensity in the changing climate of Australia: poster presented at AFAC09, Conference of the Australasian Fire and Emergency Services Authority Council and Bushfire CRC, Gold Coast, Qld, September 2009 (POSTER). University of New South Wales, Canberra.
- Hollis JJ, McCaw WL (2010). Woody fuel consumption and carbon in the changing climate of Australia: paper presented at the Conference of the Institute of Foresters of Australia, Caloundra, Qld, September 2009. Department of Environment and Conservation, Manjimup. 13 p.

### **Conference/Workshop Papers/Posters**

- Boer M, Sadler R, Wittkuhn R, McCaw L, Grierson P (2009). Long-term impacts of prescribed burning on regional extent and incidence of wildfires: evidence from fifty years of active fire management in SW-WA: poster presented at AFAC09, Conference of the Australasian Fire and Emergency Services Authority Council and Bushfire CRC, Gold Coast, Qld, September 2009 (POSTER). University of Western Australia, Crawley.
- Mills G, McCaw L (2009). Atmospheric stability environments and fire weather 1, an extended Haines Index: poster presented at AFAC09, Conference of the Australasian Fire and Emergency Services Authority Council and Bushfire CRC, Gold Coast, Qld, September 2009 (POSTER). Centre for Australian Weather and Climate Research, Melbourne.

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Mills G, McCaw L (2009). Atmospheric stability environments and fire weather 2, a case study of the Hovea fire: poster presented at AFAC09, Conference of the Australasian Fire and Emergency Services Authority Council and Bushfire CRC, Gold Coast, Qld, September 2009 (POSTER). In: *AFAC09 Conference of the Australasian Fire and Emergency Services Authorities Council and the Bushfire CRC, Gold Coast, QLD, September 2009* Centre for Australian Weather and Climate Research, Melbourne.

Reisen F, Meyer M, Powell J, Keywood M, McCaw L, Tolhurst K (2009). Impact of smoke from prescribed burning and wildfires on rural communities in southern Australia: poster presented at AFAC09, Conference of the Australasian Fire and Emergency Services Authority Council and Bushfire CRC, Gold Coast, Qld, September 2009 (POSTER). CSIRO Marine and Atmospheric Research, Aspendale.

Wittkuhn R, McCaw L, Robinson R, Farr J, van Heurck P, Wills A, Liddelow G, Cranfield R, Andersen A (2009). Planning fire intervals for biodiversity conservation. Poster presented to AFAC09, Conference of the Australasian Fire and Emergency Services Authority Council and Bushfire CRC, Gold Coast, Qld, September 2009 (POSTER). Department of Environment and Conservation, Manjimup.

## Abstracts

Algar D, Johnston M, Hilmer S (2010). A pilot study for the proposed eradication of feral cats on Dirk Hartog Island, Western Australia (ABSTRACT). In: *Island Invasives: Eradication and Management: a Conference at Tamaki Campus, the University of Auckland, 8 to 12 February 2010: Programme, Abstracts and List of Participants* (comp D Veitch). p. 17. Centre for Biodiversity and Biosecurity, Auckland.

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#### **New Science Project Plans**

- SPP 003 - Temperature thresholds for recruitment in south west Western Australian flora  
Supervisor: Anne Cochrane
- SPP 004 - Comparison of plant canker pathogen impact and climatic variables in Proteaceae on the south coast of Western Australia and evaluation of selected fungicides as a management tool for canker control in the declared rare flora *Banksia verticillata* and *Lambertia orbifolia*  
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