

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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NORM MCKENZIE
SCIENCE DIVISION
WOODVALE

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

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Neil Burrows
Director
Science Division

Byrne M, Hankinson M, McArthur S (2009). Characterization of microsatellite markers isolated from *Bossiaea ornata* (Lindl.) Benth. (Papilionaceae). *Conservation Genetics* **10**, 1985-1987

Cochrane A, Barrett S, Watson J (2009). Responses to threats and impacts on the outstanding biodiversity values of low-altitude mountains in south Western Australia. *Mountain Forum Bulletin* **9(2)**, 8-10

Davis RW (2009). *Ptilotus luteolus*, a new combination in *Ptilotus* (Amaranthaceae). *Nuytsia* **19**, 311-312

Franks AJ, Yates CJ, Hobbs RJ (2009). Defining plant functional groups to guide rare plant management. *Plant Ecology* **204**, 207-216

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

Glen AS, de Tores PJ, Sutherland DR, Morris KD (2009). Interactions between chuditch (*Dasyurus geoffroii*) and introduced predators: a review. *Australian Journal of Zoology* **57**, 347-356

Glen M, Bougher NL, Francis AA, Nigg SQ, Lee SS, Irianto R et al. (2009). *Ganoderma* and *Amauroderma* species associated with root-rot disease of *Acacia mangium* plantation trees in Indonesia and Malaysia. *Australasian Plant Pathology* **38**, 345-356

Hilmer S, Algar D, Tonkin DJ (2009). Ferals in Paradise: feral cat control on the Cocos (Keeling) Islands. *Neobiota* **8**, 195-204

Hislop M (2009). New taxa in the *Leucopogon gracilis* group (Ericaceae: Styphelioideae: Stypheliaceae). *Nuytsia* **19**, 211-228

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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Beatty P, McCaw L (2009). Bushfire control and salvage tactics in the west. *Australian Forest Grower* **32(2)**, 27-28

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

Bullen RD, McKenzie NL, Bullen KE, Williams MR (2009). Bat heart mass: correlation with foraging niche and roost preference. *Australian Journal of Zoology* **57**, 399-408

Byrne M, Hankinson M (2009). Characterization of polymorphic microsatellite DNA markers in *Hakea oldfieldii* Benth. (Proteaceae). *Molecular Ecology Resources* **9**, 1214-1216

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- McDougall A, Porter G, Mostert M, Cupitt R, Cupitt S, Joseph L et al. [Burbidge A] (2009). Another piece in an Australian ornithological puzzle: a second night parrot is found dead in Queensland. *Emu* **109**, 198-203
- McKenzie NL, Bullen RD (2009). The echolocation calls, habitat relationships, foraging niches and communities of Pilbara microbats. *Records of the Western Australian Museum Supplement* **78**, 123-155
- McKenzie NL, van Leeuwen S, Pinder AM (2009). Introduction to the Pilbara Biodiversity Survey, 2002-2007. *Records of the Western Australian Museum Supplement* **78**, 3-89
- Neaves LE, Zenger KR, Prince RIT, Eldrige MDB, Cooper DW (2009). Landscape discontinuities influence gene flow and genetic structure in a large, vagile Australian mammal, *Macropus fuliginosus*. *Molecular Ecology* **18**, 3363-3378
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- Pastorello A, Crockett RM, Martin R, Smartt SJ, Altavilla G, Benetti S et al. (2009). SN 1999ga: a low-luminosity linear type II supernova?. *Astronomy and Astrophysics* **500**, 1013-1023
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- Reid JE, Wardell-Johnson G, Maslin BR (2009). A new subspecies of *Acacia pentadenia* (Leguminosae: Mimosoideae) from south-western Australia. *Nuytsia* **19**, 245-252
- Roberts AE, Radford IJ, Orlovich DA (2009). Do alterations of arbuscular mycorrhizal fungal communities change interactions between invader *Hieracium lepidulum* and two co-occurring species? A glasshouse study. *Australasian Mycologist* **28**, 29-35
- Rye BL (2009). An interim key to the Western Australian tribes and genera of Myrtaceae. *Nuytsia* **19**, 313-323
- Shepherd KA, Barker RM (2009). A new species of *Hakea* (Proteaceae) from the Swan Coastal Plain, Western Australia. *Nuytsia* **19**, 253-258
- Sirisena UM, Macfarlane TD, Conran JG (2009). *Thysanotus unicipensis* (Laxmanniaceae), a new species discovered in Unicup Nature Reserve, south-west Western Australia. *Nuytsia* **19**, 259-263
- Thiele KR (2009). *Banksia recurvistyliis* (Proteaceae), a new species from Western Australia. *Nuytsia* **19**, 277-281
- Thiele KR (2009). A new circumscription for *Lysinema ciliatum* (Ericaceae: Styphelioideae: Epacrideae) and reinstatement of *L. pentapetalum*. *Nuytsia* **19**, 265-275
- Thiele KR (2009). Three new species of *Hibbertia* (Dilleniaceae) from Western Australia. *Nuytsia* **19**, 283-293
- Walker E, Byrne M, Macdonald B, Nicolle D, McComb J (2009). Clonality and hybrid origin of the rare *Eucalyptus bennettiae* (Myrtaceae) in Western Australia. *Australian Journal of Botany* **57**, 180-188
- Wege JA, Gibson N (2009). A new, rare *Marianthus* (Pittosporaceae) from the Bremer Range in Western Australia. *Nuytsia* **19**, 295-302
- Wege JA, Thiele KR (2009). Two new species of *Hibbertia* (Dilleniaceae) from near Ravensthorpe in Western Australia. *Nuytsia* **19**, 303-310
- Wege JA (2009). Naming *Stylidium* (Stylidiaceae): an historical account, with specific reference to *S. graminifolium* and *S. lineare*. *Telopea* **12**, 321-332
- White DA, Crombie DS, Kinal J, Battaglia M, McGrath JF, Mendham DS et al. (2009). Managing productivity and drought risk in *Eucalyptus globulus* plantations in south-western Australia. *Forest Ecology and Management* **259**, 33-44
- Williams MR, Lamont BB, Henstridge JD (2009). Species-area functions revisited. *Journal of Biogeography* **36**, 1994-2004
- Wilson K, de Tores P, Spencer PBS (2009). Isolation and characterisation of polymorphic microsatellite markers in the western ringtail possum, *Pseudocheirus occidentalis*. *Conservation Genetics Resources* **1**, 123-125

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- 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.

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Gamblin T, Williams MR, Williams AAE, Richardson J (2009). The ant, the butterfly and the bulldozer (POSTER). Department of Environment and Conservation, Kensington, WA. 1 poster

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. 1 poster

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.

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Bancroft K (2009). Constructing historical timelines: is it worth the trouble?. In *Monitoring for action: symposium abstracts, 24 November 2009: understanding Western Australia's changing marine and coastal environment* p. 31. Symposium Organising Committee, Perth.

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- Bougher NL (2009). A flora, fauna and fungi doctrine in Western Australia (ABSTRACT). In *Fungimap V Conference, 21-26 May 2009, Wallerawang, New South Wales : conference programme* p. 9. Sydney Fungal Studies Group, Sydney.
- Burrows N (2009). Big bad fires threaten rock outcrops (ABSTRACT). In *Biodiversity under fire: the Nature Conservation Council of NSW presents its 17th biennial Bushfire Management Conference: NSW Teachers Federation Conference Centre, Sydney, 22nd June-23rd June 13-14 Nature Conservation Council of NSW, Sydney*.
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- Wilson S (2009). Climate change and coral reef habitat: implications for fish (ABSTRACT). In *A Changing Climate, Western Australia in Focus: Presenters' Abstract Papers: Symposium, 27 March 2009, the University Club of Western Australia, Crawley, Perth, Western Australia, Australia*. pp. 27-28. Western Australian Marine Science Institution, Perth.

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Bishop C, Williams M, Gamblin T (2009). Graceful sun-moth: information kit and survey methods. Department of Environment and Conservation, Kensington, WA. 16 p.

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Coates DJ, McArthur S (2009). Assessing the taxonomic status of *Banksia brownii* and patterns of genetic diversity in extinct and extant populations: Bankwest Landscape Project final report. Department of Environment and Conservation, Kensington, WA. 8 p.

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- Jackson J, Kern S, Pinder A, Daniel G (2009). Resource condition report for a significant Western Australian wetland: Desert Queens Baths. Department of Environment and Conservation, Kensington, WA. 19 p.
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- Maher D, McCaw L, Yates C (2009). Vulnerability of forests in south-west Western Australia to timber harvesting under the influence of climate change: expert panel report. Department of Environment and Conservation, Kensington, WA. 55 p.
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- Friend T (2009). Foreword. In *Mammals of the Avon Region* (by M Bamford, R Inglis, K Watson). 6-7 Department of Environment and Conservation, Kensington, WA.
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New Science Project Plans

SPP 2009/006 - Taxonomic resolution and description of new plant species particularly Priority Flora and from those areas subject to mining interests in Western Australia

Supervisor: Juliet Wege

SPP 2009/008 - The Western Australian marine benthic algae online and an interactive key to the genera of Australian marine benthic algae

Supervisor: John Huisman

SPP 2009/009 - Taxonomic review and floristic studies of the benthic marine algae of north-western Western Australian and floristic surveys of Western Australian marine benthic algae

Supervisor: John Huisman

SPP 2009/014 - Conservation of the graceful sun moth habitat

Supervisor: Carly Bishop

SPP 2009/015 - Development of light measurement techniques and equipment for sea turtle rookery light pollution studies

Supervisor: Arie Verveer

SPP 2010/001 - Systematics of the triggerplant genus *Stylidium*

Supervisor: Juliet Wege

SPP 2010/002 - An investigation of the epidemiology and use of novel phosphite application techniques in *Phytophthora cinnamomi* infestations in the National Parks from the South Coast of Western Australia

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