

SCIENCE COMMUNICATIONS

November 2005-February 2006

Science Division Mission: The provision of up-to-date and scientifically sound information to uphold effective conservation and land 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 November 2005 to February 2006. If you require a copy of a **submitted** paper please contact the author. For all other titles please contact Lisa Wright at Woodvale.

Neil Burrows
Director

D'Souza NK, Colquhoun IJ, Shearer BL, Hardy GE St J (2005) Assessing the potential for biological control of *Phytophthora cinnamomi* by fifteen native Western Australian jarrah-forest legume species. *Australasian Plant Pathology* **34**, 533-540.

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Halse SA, Massenbauer T (2005) Incorporating research results into wetlands management: lessons from recovery catchments in saline landscapes. *Hydrobiologia* **552**, 33-44.

Hayward MW, de Tores PJ, Augée ML, Banks PB (2005) Mortality and survivorship of the quokka (*Setonix brachyurus*) (Macropodidae: Marsupialia), in the northern jarrah forest of Western Australia. *Wildlife Research* **32**, 715-722.

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CALM Science Division (2005) Science communications. - July 2005-October 2005. Department of Conservation and Land Management, Woodvale.

CALM Science Division (2005) Science communications. - October 2004-February 2005. Department of Conservation and Land Management, Woodvale.

Cranfield RJ (2005) Two new species of *Brachyloma* (Epacridaceae), from the South West Botanical Province of Western Australia. *Nuytsia* **15**, 331-336.

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- Orchard AE, Lepschi BJ, Hislop M (2005) New taxa, a new record and a rediscovery in Western Australian *Haloragis* (Haloragaceae). *Nuytsia* **15**, 431-443.
- Paini DR, Williams MR, Roberts JD (2005) No short-term impact of honey bees on the reproductive success of an Australian native bee. *Apidologie* **36**, 613-621.
- Ponder WF, Clark SA, Eberhard S, Studdert JB (2005) A radiation of hydrobiid snails in the caves and streams at Precipitous Bluff, southwest Tasmania, Australia (Mollusca: Caenogastropoda: Rissooidea: Hydrobiidae s.l.). *Zootaxa* **1074**, 1-66.
- Rye BL (2005) A taxonomic review of *Dicrasyllis* sect. *Corymbosae* (Lamiaceae: Chloantheae) incorporating *Mallophora* as a new synonym. *Nuytsia* **15**, 445-455.
- Rye BL, Hislop M (2005) A taxonomic update of *Petrophile* sect. *Arthrostigma* (Proteaceae). *Nuytsia* **15**, 457-483.
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- Wayne AF, Cowling A, Rooney JF, Ward CG, Vellios CV, Lindenmayer DB et al. (2005) A comparison of survey methods for arboreal possums in jarrah forest, Western Australia. *Wildlife Research* **32**, 701-714.
- Wayne AF, Cowling A, Rooney JF, Ward CG, Wheeler IB, Lindenmayer DB et al. (2005) Factors affecting the detection of possums by spotlighting in Western Australia. *Wildlife Research* **32**, 689-700.
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- Williams AAE, Williams MR, Swann G (2006) Records of butterflies (Lepidoptera) from the Kimberley region of Western Australia. *Victorian Entomologist* **36**, 9-16.

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- Adkins SW, Ainsley PJ, Bellairs SM, Coates DJ, Bell LC (eds) (2005) Proceedings of the Fifth Australian Workshop on Native Seed Biology: 21-23 June 2004, Brisbane, Queensland. Australian Centre for Minerals Extension and Research, Kenmore.
- Eberhard SM, Halse SA, Scanlon MD, Cocking JS, Barron HJ (2005) Assessment and conservation of aquatic life in the subsurface of the Pilbara region, Western Australia. In: *Symposium on World Subterranean Biodiversity: held on 8-10 December, 2004, University Claude Bernard of Lyon 1, CNRS, Villeurbanne, France: Proceedings* (ed J Gilbert). 61-68. Equipe Hydrobiologie et Ecologie Souterraines, Villeurbanne.
- Finston T, Johnson M, Humphreys W, Eberhard S, Halse S (2005) Haplotype diversity in *Pilbarus millsii*, a widespread groundwater species of amphipod from the Pilbara, Western Australia. In: *Symposium on World Subterranean Biodiversity: held on 8-10 December, 2004, University Claude Bernard of Lyon 1, CNRS, Villeurbanne, France: Proceedings* (ed J Gilbert). 69-71. Equipe Hydrobiologie et Ecologie Souterraines, Villeurbanne.
- Martin P, Ansemil EM, Painer A, Timm T, Wetzel MJ (2005) A global assessment of the oligochaetous clitellate diversity in freshwater: poster presented at workshop: A Global Assessment of Animal Diversity in Freshwater, held at Elewijt, Belgium, 13-15 Oct, 2005. 1 Poster

Abstracts

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Bougher NL, Hart R, Weaver J (2005) PUBF fungi reports 2004: fungi surveys and community participation in Perth bushlands. Perth Urban Bushland Fungi Project, Perth.

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Pearson G, Piersma T, Hickey R (2005) Managing the unique marine biodiversity at Eighty-Mile Beach. In: *The Long Mud: Benthos and Shorebirds of the Foreshore of Eighty-Mile Beach, Western Australia* 207-213. Royal Netherlands Institute for Sea Research, Texel.

Piersma T, Pearson G (2005) Introduction. In: *The Long Mud: Benthos and Shorebirds of the Foreshore of Eighty-Mile Beach, Western Australia* 7-8. Royal Netherlands Institute for Sea Research, Texel.

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Gould J, McCaw L, Cheney NP Project Vesta: fire behaviour study of different age fuels in dry eucalypt forests (ABSTRACT). In: *Fuels Management: How to Measure Success: First Fire Behavior and Fuels Conference, Portland, Oregon, USA, March 2006*

Hayward M Home range overlap of the quokka *Setonix brachyurus* (Macropodidae: Marsupialia) suggests a polygynous mating system. *Conservation Science Western Australia*

Kinal J, Stoneman GL, Williams MR Calibrating and using an EM31 electromagnetic induction meter to estimate and map soil salinity in the jarrah and karri forests of south-western Australia. *Australian Journal of Soil Research*

Lyons Monitoring wetlands in a salinizing landscape: case studies from the wheatbelt region of Western Australia. *Hydrobiologia*

Matthews S, McCaw WL, Neal JE, Smith RH Testing a process-based fine fuel moisture model in two forest types. *Canadian Journal of Forest Research*

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- McKenzie NL, Bullen RD Western freetail-bat *Mormopterus* sp.. In: *Mammals of Australia*. - 3rd edn
- McKenzie NL, Burbidge AA, Baynes A, Brereton RN, Dickman CR, Gordon G et al. [Gibson LA, Williams MR] Patterns and independent predictors of decline in Australia's mammalian fauna. *Biological Conservation*
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- Pinder AM, Eberhard SM, Humphreys WF New phalloporines (Annelida: Clitellata: Tubificidae) from Western Australian groundwater. *Zootaxa*
- Reeves JM, De Deckker P, Halse SA Groundwater ostracods from the arid Pilbara region of northwestern Australia: distribution and water chemistry. *Hydrobiologia*
- Robinson RM Epigeous macrofungal succession in the first five years following a wildfire in karri (*Eucalyptus diversicolor*) regrowth fungi in Western Australia. *Austral Ecology*
- Robinson R, Strelein G ForestCheck: monitoring biodiversity in jarrah forest <http://www.ffa.gov.au/nfi>.
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- Wheeler MA, Stukely M, McComb JA Bud, flower and fruit drop and variation in fertile seed number in *Eucalyptus marginata* (Myrtaceae). *Australian Journal of Botany*
- Williams AAE, Williams MR A new locality record and notes on the distribution of the laterite ochre *Trapezites waterhousei* Mayo and Atkins

Science Project Plans

Project: SPP 2004/004 – Fire-induced Habitat Mosaics in South-West Landscape
Supervising scientist: Neil Burrows

Project: SPP 2006/001 – Monitoring post-fire effects following the 2001 Nuyts wildfire.
Supervising scientist: Lachlan McCaw

Project SPP 2006/002 – Forest Stream Biodiversity Monitoring 2005.
Supervising scientist: Stuart Halse

Project: SPP 2006/003 – FORESTCHECK.
Supervising scientist: Neil Burrows

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(Lepidoptera: Hesperiidae). *Australian Entomologist*

Yates C, Williams M Patterns of plant mortality and changes in condition in the *Tetratheca paynterae* subsp. *paynterae* population at Windarling W3 between 2003 and 2005.

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