

Publications: 1997–1998

Refereed Papers

Andersen, A.N. (1997) Using ants as bioindicators: multi-scale issues in ant community ecology. *Conservation Ecology* (on line) Vol. 1, p 8.

Andersen, A.N., Morrison, S., Belbin, L., Ashwath, N. & Brennan, K. (1998) The role of ants in minesite restoration in the Kakadu Region of Australia's Northern Territory, with particular reference to their use as bioindicators. Supervising Scientist Report 130, *Supervising Scientist*, Canberra.

Andersen, A.N. & Morrison, S. (in press) Myrmecochory in Australia's seasonal tropics: effects of disturbance on distance dispersal. *Australian Journal of Ecology*.

Andersen, A.N. (submitted) *The Ants of Northern Australia: A Guide to the Monsoonal Fauna*. CSIRO Publishing, Melbourne.

Atchison, J.M., Head, L.M. & McCarthy, L.P. (submitted) Stomatal indices and atmospheric change since 7500BP: evidence from *Eremophila deserti* (Myoporaceae) leaves from the Flinders Ranges region, South Australia. *Australian Journal of Botany*.

Atchison, J.M. & Fullagar, R.K.L. (in press) Starch residues on pounding implements from Jinnium rock shelter. *A Closer Look: Recent Australian Studies of Stone Tools*. Fullagar, R.K.L. (ed.) Sydney University Archaeological Methods, Series No. 6.

Benson, R. (1998) Sustainable land management and adult education: issues for the stakeholders of Australia's tropical savannas. *Australian Journal of Adult and Community Education*, Vol. 38 (1), pp 9-20.

Blanche, K.R., Andersen, A.N. & Ludwig, J.A. (submitted) Responses of ground-active beetle assemblages to experimental fire regimes in an Australian tropical savanna. *Ecology*.

Bowman, D.M.J.S. (1997) Observations on the demography of the Australian Boab (*Adansonia gibbosa*) in the north-west of the Northern Territory, Australia. *Australian Journal of Botany*, Vol. 45, pp 893-904.

Bowman, D.M.J.S. (in press) Death of biodiversity—the urgent need for global ecology. *Global Ecology and Biogeography Letters*.

Bowman, D.M.J.S., Panton, W.J. & Head, J. (in press) Abandoned Orange-footed Scrubfowl (*Megapodius reinwardt*) nests and coastal rainforest boundary dynamics during the late Holocene in monsoonal Australia. *Quaternary International*.

Bowman, D.M.J.S. (in press) Tansley Review: The impact of Aboriginal landscape burning on the Australian biota. *New Phytologist*.

Choquenot, D. & Bowman, D.M.J.S. (in press) Marsupial megafauna, Aborigines and the overkill hypothesis: application of a two species predator prey model to the question of Pleistocene extinction in Australia. *Global Ecology and Biogeography Letters*.

Churchill, T.B. (1998) Spiders as ecological indicators in the Australian tropics: family distribution patterns along rainfall and grazing gradients. *Bulletin of the British Arachnological Society*, Vol. 11, pp 325-330.

- Cook, G.D. & Heerdegen, R. (1997) The length of the rainy season can be more important than the amount of rain for savannas in the Northern Territory. *Australian Collaborative Land Evaluation Program Newsletter*, Vol. 6 (4), pp 18-20.
- Craig, A. (1997) A review of information on the effects of fire in relation to the management of rangelands in the Kimberley high rainfall zone. *Tropical Grasslands*, Vol. 31, pp 161-187.
- Davie, J. & Hynes, R. (1997) Integrating nature conservation and sustainable rural management. *Australian Biologist*, Vol. 10 (4), pp 185-199
- Duff, G.A., Myers, B.A., Williams, R.J., Eamus, D., Fordyce, I. & O'Grady, A. (1997) Seasonal patterns in canopy cover and microclimate in a tropical savanna near Darwin, northern Australia. *Australian Journal of Botany*, Vol. 45, pp 211-224.
- Eamus, D. & Prior, L.D. (1998) Seasonal changes in leaf water characteristics of *Eucalyptus tetrodonta* and *Terminalia ferdinandiana* saplings in a northern Australian savanna. *Australian Journal of Botany*, Vol. 47, pp 1-8.
- Fensham, R.J. & Holman, J.E. (1998) The use of the land survey record to assess changes in vegetation structure. A case study from the Darling Downs, Queensland, Australia. *Rangeland Journal* 20: 132-142.
- Fisher, A., Woinarski, J.C.Z., Churchill, S., Trainor, C., Griffiths, A.D., Palmer, C., & Cooper, N. (in press) Distribution of the rock-dwelling dasyurids *Pseudantechinus bilarni* and *Pseudantechinus ningbing* in the Northern Territory. *NT Naturalist*.
- Fordyce, I., Eamus, D., Duff, G.A., & Williams, R.J. (1997) The role of seedling age and size in the recovery of *Allosyncarpia ternata* following fire. *Australian Journal of Ecology*, Vol. 22, pp 262-269.
- Franklin, D.C., Dostine, P.L., Tidemann, S.C. (in press) Post-juvenile moult strategies of co-existing Gouldian, Long-tailed and Masked Finches. *Corella*.
- Goodfellow, J., Eamus, D., & Duff, G.A. (1997) Diurnal and seasonal changes in the impact of CO₂ enrichment on assimilation, stomatal conductance and growth in a long-term study of *Mangifera indica* in the wet-dry tropics of Australia. *Tree Physiology*, Vol. 17, pp 291-299.
- Grice, A.C., Radford, I.J. & Abbott, B.N. (submitted) Landscape ecology of the invasive *Cryptostegia grandiflora* R. Br.: a qualitative framework and analysis of land resource survey data. *Biological Invasions*. Heerdegen,
- R.G. & Cook, G.D. (submitted) Rainy season length and dry spells in monsoonal Australia. *Journal of Climate*.
- Hoffmann, B.D., Andersen, A.N. & Hill, G.J.E. (submitted) Impact of an introduced ant on native rainforest invertebrates: *Pheidole megacephala* in monsoonal Australia. *Oecologia*.
- Kriticos, D., Brown, J., Radford, I. & Nicholas, M. (submitted) Biological control of invasive perennial plants in rangeland ecosystems: *Acacia nilotica* as a case study. *Biological Control*.
- Ludwig, J.A., Eager, R.W., Williams, R.J. & Lowe, L.M. (submitted) Declines in vegetation patches, plant diversity and grasshopper diversity near cattle watering points in the Victoria River District, northern Australia. *Rangeland Journal*.
- Ludwig, J.A., Tongway, D.J., Williams, R.J. & Cook, G.D. (in press) Fine-scale patchiness in savanna landscapes along the North Australian Tropical Transect. *Landscape Ecology*.

Menges, C.H. (submitted) Use of airborne video data for the characterisation of tropical savannas in northern Australia: the optimal spatial resolution for remote sensing applications. *International Journal of Remote Sensing*.

Menges, C.H., van Zyl, J.J., Ahmad, W., & Hill, G.J.E. (submitted) A procedure for the correction of the effect of variation in local incidence angle on AIRSAR data. *International Journal of Remote Sensing*.

Menges, C.H., Hill, G.J.E., & Ahmad, W. (1998) LANDSAT TM data and potential feeding grounds for threatened marine turtle species in northern Australia. *International Journal of Remote Sensing*, Vol. 19 (6), pp 1207-1221.

Menges, C.H., Ahmad, W., Khwaja, Z.H., & Hill, G.J.E. (1996) Merging minimum distance to mean and maximum likelihood algorithms for classifying *Mimosa pigra* in northern Australia. *Asian-Pacific Remote Sensing Journal*, Vol. 9 (1), pp 51-59.

Myers, B.A., Williams, R.J., Fordyce, I., Duff, G.A. & Eamus, D. (1998) Does irrigation affect leaf phenology in deciduous and evergreen trees of the savannas of northern Australia? *Australian Journal of Ecology*, Vol. 23, pp 329-339.

Myers, B.A., Duff, G.A., Eamus, D., Williams, R.J., Fordyce, I. & O'Grady, A. (1997) Seasonal variation in water relations of trees in a tropical savanna near Darwin, northern Australia. *Australian Journal of Botany*, Vol. 45, pp 225-240.

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Rose, D. (1998) Signs of Life on a Barbarous Frontier: Intercultural Encounters in North Australia. *Humanities Research*, Spring.

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Runcie, M.J. (1997) Defensive behaviour in the Death Adder (*Acanthophis praelongus*). *Herpetofauna*, Vol. 27 (2).

Russell-Smith, J., Ryan, P.G., Klessa, D., Waight, G. & Harwood, R. (in press) Fire frequency and firesensitive vegetation of the sandstone Arnhem Plateau, monsoonal northern Australia. *Journal of Applied Ecology*.

Schulze, E.-D., Williams, R.J., Farquhar, G.D., Schulze, W., Langridge, J., Miller, J. & Walker, B.H. (1998) Carbon and nitrogen isotope discrimination and nitrogen nutrition of trees along a rainfall gradient in northern Australia. *Australian Journal of Plant Physiology*, Vol. 25, pp 413-425.

Setterfield, S.A. (1997) The impact of experimental fire regimes on seed production in two tropical eucalypt species in northern Australia. *Australian Journal of Ecology*, Vol. 22, pp 279-287.

Thomas, D.S., Turner, D.W., & Eamus, D. (1998) Independent effects of the environment on the leaf gas exchange of three banana (*Musa* spp.) cultivars of different genomic constitution. *Scientia Horticulturae*, Vol. 67, pp 1-15.

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Woinarski, J.C.Z., Horner, P., Fisher, A., Brennan, K., Lindner, D., Gambold, N., Chatto, R. & Morris, I. (in press) Distributional patterning of terrestrial herpetofauna on the Wessel and English Company Island groups, north-eastern Arnhem Land, Northern Territory, Australia. *Australian Journal of Ecology*.

Woinarski, J.C.Z., Brennan, K., Cowie, I., Fisher, A., Latz, P.K. & Russell-Smith, J. (in press) Vegetation of the Wessel and English Company Islands, northeastern Arnhem Land, Northern Territory, Australia. *Australian Journal of Botany*.

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Woinarski, J.C.Z., Gambold, N., Wurst, D., Flannery, T.F., Smith, A.P., & Chatto, R. (in press) Distribution and habitat of the Northern Hopping Mouse *Notomys aquilo*. *Wildlife Research*.

Woinarski, J.C.Z., Brock, C., Fisher, A., Milne, D., & Oliver, B. (in press) Response of birds and reptiles to fire regimes on pastoral land in the Victoria River District, Northern Territory. *Rangeland Journal*.

Books or Chapters

Bowman, D.M.J.S. (in press) *Australian rainforest: scattered and burnt*. Cambridge University Press. Grice, A.C. & Brown, J.R. (1997) Managed fire to control the impacts on northern Australian plant communities of the invasive shrub *Cryptostegia grandiflora*. In *Conservation Outside Nature Reserves*, Hale, P. & Lamb, D. (eds), pp 356-358. Centre for Conservation Biology, University of Queensland.

Griffiths, T., & Robin, L. (eds) (1997) *Ecology and Empire: Environmental History of Settler Societies*. Melbourne University Press, Melbourne.

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Horner, P. & Fisher, A. (in press). *Ctenotus rimacola* sp. nov. (Scincidae), a new species of lizard with two allopatric subspecies, from the Ord-Victoria region of northwestern Australia. In *Records of the Western Australian Museum*.

Hynes, R.A. (in press) Dalrymple Shire—A Case Study. In *Queensland State of Environment Report*. Queensland Department of Environment.

James, C.D., Stafford Smith, M., Landsberg, J., Fisher, A., Tynan, R., Maconochie, J. & Woinarski, J. (in press) Biograzing - melding off-reserve conservation of native species with animal production in Australian rangelands. In *Nature Conservation—managing the matrix*. Surrey Beatty, Sydney.

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Rose, D. & Clarke, A. (eds) (1998) *Tracking Knowledge: Studies in North Australian Landscapes*. NARU, Darwin.

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Rose, D. (1997) Dark times and excluded bodies in the colonisation of Australia. In *The Resurgence of Racism: Hanson, Howard and the Race Debate*, Gray, G. & Winter, C. (eds), pp 97-116. Monash Publications in History, Monash University..

Williams, R.J., Cook, G.D., Ludwig, J.L. & Tongway, D. (1997) Torch, trees, teeth and tussocks: disturbance in the tropical savannas of the Northern Territory (Australia). In *Frontiers in Ecology, Building the Links*, Klomp, N. & Lunt, I. (eds), pp 55-66. Elsevier, Oxford.

Woinarski, J.C.Z. & Dawson, F. (in press) Limitless lands and limited knowledge: coping with uncertainty and ignorance in northern Australia. In *Ecology, Uncertainty and Policy: managing ecosystems for sustainability*, Norton, T.W., Handmer, J.W. & Dovers, S.R. (eds). Longmans, London.

Conference and Workshop Papers

*Ahmad, W., Khwaja, Z.H., Menges, C.H., Hill, G.J.E., Williams, R.J. & Cook, G.D. (in press) Airborne Radar as an input to conventional remote sensing in the Kidman Springs area of the Northern Territory. NARGIS 97. In *Proceedings of the 3rd North Australian Remote Sensing and GIS Workshop*, April 1997.

*Ahmad, W., van Zyl, J.J., Menges, C., O'Grady, A. & Hill, G.J.E. (1998) Preliminary results of supervised and unsupervised AIRSAR data classification techniques in the tropical savannas of northern Australia. *PACRIM Airborne Synthetic Aperture Radar (AIRSAR) Workshop*, 26-28 July, Sydney.

*Ahmad, W., Williams, R.J., Cook, G.D. & Hill, G.J.E. (1997) Synthetic aperture radar and environmental gradients in the Northern Territory, Australia. The environment, data and land cover types. In *Proceedings of the International Workshop on Radar image processing and applications*, Milne, A.K. (ed), COSSA Publication No. 40, pp 21-24. CSIRO, Canberra.

Andersen, A.N. (1997) Fire research for conservation management in Australia's tropical savannas: introducing the Kapalga fire experiment. In *Bushfire '97 Proceedings*, McKaige, B.J., Williams, R.J. & Waggitt, W. (eds), pp 39-44. CSIRO, Darwin.

Blake, P., Kirby, G.W.M. & Hooper, K. (1997) Northern Australian Regional Developments. Paper to the 1997 Northern Australian Regional Outlook Conference, 24 September, Darwin.

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*Menges, C.H., Ahmad, W., Khwaja, Z.H., Hill, G.J.E. & Cook, G.D. (1997) The role of remote sensing in monitoring the management of a *Mimosa pigra* stand in the Northern Territory. NARGIS 97.

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Russell-Smith, J. (1997) Developing a coordinated fire management and research program for northern Australia: the role of the CRC for Tropical Savannas. In *Bushfire '97 Proceedings*, McKaige, B.J., Williams, R.J. & Waggitt, W.M. (eds), pp 12-17. CSIRO, Darwin.

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Natural Resources and Development in the Daly River–Sturt Plateau Region of the Tropical Savannas of the Northern Territory was prepared as a guide to focus groups discussions. The report provides an information base on the current production, ecology and policy of the region. Black, N. & Clark, A. (1998) *Tourism in North West Queensland: 1996.Tourist Characteristics, Numbers and Travel Flows*.TS CRC, JCU, 63 pp.

- Bowman, D.M.J.S. & Milne, D.J. (1998) *Rainforest triage; exploration of methodologies to identify rainforest patches in need of immediate management*. Report prepared for the Heritage Commission, Canberra.
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