

Publications: 1999–2000

Refereed Papers

Ahmad, W., Hill, G.J.E., Grady, A., & Menges, C. (1999) 'Use of Multi-Spectral Scanner Data for the Identification and Mapping of Tropical Forests of Northern Australia', *Asia-Pacific Remote Sensing and GIS Journal*, vol 2, pp. 25–35.

Andersen, A.N. & Müller, W.J. (in press) 'Arthropod responses to experimental fire regimes in an Australian tropical savanna: 'ordinal'-level responses', *Australian Journal of Ecology*.

Blanche, K.R., Andersen, A.N. & Ludwig, J.A. (in press) 'Rainfall-contingent detection of fire impacts: responses of beetles to experimental fire regimes in a tropical savanna', *Ecological Applications*.

Bowman, D.M.J.S., Wilson, B.A. and Fensham, R.J. (1999) Relative drought tolerance of evergreen-rainforest and evergreen-savanna species in a long unburnt *Eucalyptus* savanna, north Queensland, Australia. *Proceedings of the Royal Society of Queensland* 108, 27-31.

Churchill, T.B. and Arthur, J.M. (1999) Measuring spider richness: effects of different sampling methods and spatial and temporal scales', *Journal of Insect Conservation*, vol. 3, pp. 287–295.

Cole, J. & Woinarski, J.C.Z. (in press) 'Rodents of the arid Northern Territory: conservation status and distribution', *Wildlife Research*.

Cook, G.D. (1999) 'Production hinges on fertility', *Australian Landcare*, pp. 44–45.

Crowley, G.M. & Garnett, S.T. 1999, 'Seeds of the annual grasses *Schizachyrium* spp. as a food resource for tropical granivorous birds,' *Australian Journal of Ecology*, vol. 24, no. 3., pp. 208–220.

Crowley, G.M. & Garnett, S.T. (2000) 'Changing fire management in the pastoral lands of Cape York Peninsula of northeast Australia, 1623 to 1996', *Australian Geographical Studies*, vol. 38, no. 1, pp. 10–26.

Eamus, D., Myers, B., Duff, G. & Williams, R. (1999) 'A cost-benefit analysis of eight Australian savanna tree species of differing phenology', *Photosynthetica*, 36, pp. 575–586.

Eamus, D., Myers, B.A., Duff, G.A & Williams, R.J. (1999) 'Seasonal variation in photosynthetic rate of eight savanna tree species of Australia', *Tree Physiology*, vol. 19, pp. 665–672.

Eamus, D. (1999) 'Ecophysiological traits of deciduous and evergreen woody species in the seasonally dry tropics', *TREE* vol. 14, pp 11–16.

Eamus, D., & Prior, L. (in press) 'The ecophysiology of tropical savannas, with special reference to phenology, water relations and photosynthesis', *Advances in Ecological Research*.

Fairfax, R.J., & Fensham, R.J. (in press) 'The effect of exotic pasture development on floristic diversity in central Queensland, Australia', *Biological Conservation*.

Fensham, R.J., & Holman, J.E. (1999) 'Temporal and spatial patterns in drought related tree dieback in Australian savanna', *Journal of Applied Ecology* vol. 36, pp. 1035–1050.

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.R., Eamus, D. and Duff, G.A. (2000) 'Episodic seedling growth in *Allosyncarpia ternata*, a lignotuberous monsoon rainforest tree of tropical Australia', *Austral Ecology*, vol. 25, pp. 25–35.

Franklin, D.C., Woinarski, J.C.Z. & Noske, R.A. (in press) 'Geographic patterning of species richness among granivorous birds in Australia', *Journal of Biogeography*.

Hoffmann, B.D., Andersen, A.N. & Hill, G.J.E. (1999) 'Impact of an introduced ant on native rain forest invertebrates: *Pheidole megacephala* in monsoonal Australia', *Oecologia*, vol. 120, pp. 595–604.

Hoffmann, B.D., Griffiths, A.D. & Andersen, A.N. (in press) 'Response of ant communities to dry sulphur deposition from mining emissions in semi-arid northern Australia, with implications for the use of functional groups', *Australian Journal of Ecology*.

Hoffmann, B. D. (in press) 'Changes in ants species composition and community organisation along grazing gradients in semi-arid rangelands of the Northern Territory', *The Rangeland Journal*.

Hutley, L.B., O'Grady, A.P. and Eamus, D. 2000. Daily and seasonal patterns of evapotranspiration from Eucalypt open forests savanna of tropical northern Australia. *Functional Ecology*, vol. 48.

King, D. & Macgregor, C. (in press) 'Using social indicators to measure community vulnerability to natural hazards,' *Australian Journal of Emergency Management*.

Ludwig, J.A., Tongway, D.J. & Marsden, S.G., (1999c) 'Stripes, strands or stipples: modelling the influence of three landscape banding patterns on resource capture and productivity in semi-arid woodlands, Australia', *Catena*, vol. 37, pp. 257–273.

Ludwig, J.A., Wiens, J.A. & Tongway, D.J., (2000b) 'A scaling rule for landscape patches and how it applies to conserving soil resources in tropical savannas', *Ecosystems*, vol. 3, pp. 84–97.

Ludwig, J.A., Eager, R.W., Williams, R.J. & Lowe, L.M. (1999) 'Declines in vegetation patches, plant diversity and grasshopper diversity near cattle watering-points in the Victoria River District, Northern Australia', *The Rangeland Journal*, vol. 21, pp. 135–149.

Ludwig, J.A., Tongway, D.T., Eager, R.W., Williams, R.J., & Cook, G.D. (1999) 'Fine-scale vegetation patches decline in size and cover with increasing rainfall in Australian savannas', *Landscape Ecology*, vol. 14, 557–566.

Ludwig, J.A., Bastin, G.N., Eager, R.W., Karfs, R., Ketner, P. & Pearce, G. (in press) 'Monitoring Australian rangeland sites using landscape function indicators and ground- and remote-based techniques', *Environmental Monitoring & Assessment*, vol. 42.

Menges, C.H., Hill, G.J.E., & Ahmad, W. (in press) '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., Ahmad, W., & Hill, G.J.E., van Zyl, J.J. (in press) '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., & Van Zyl, J.J. (in press) 'Incidence angle correction of AIRSAR data to facilitate land cover classification', *Photogrammetric Engineering & Remote Sensing Journal*.

O'Grady A.P., Eamus D. & Hutley L.B (1999) 'Transpiration increases during the dry season: patterns of tree water use in the eucalypt open forests of northern Australia', *Tree Physiology*, vol. 19, pp. 591–597

O'Grady, A.P., Chen, X., Eamus, D., & Hutley, L.B. (in press) 'A description of the composition, structure, leaf area index and standing biomass of a eucalypt open forest near Darwin in the Northern Territory', *Australian Journal of Botany*, vol. 48.

Palmer, C., & Woinarski, J.C.Z. (1999) 'Seasonal roosts and foraging movements of the black flying fox *Pteropus alecto* in the Northern Territory: resource tracking in a landscape mosaic', *Wildlife Research*, vol. 26, pp. 823–838.

Phinn, S.R., Menges, C., Hill, G.J.E., & Stanford, M. (in press) 'Optimising remotely sensed solutions for monitoring, modelling and managing coastal environments', *Remote Sensing of Environment*.

Price, O.F., Woinarski, J.C.Z., & Robinson, D. (1999) 'Very large area requirements for frugivorous birds in monsoon rainforests of the Northern Territory, Australia'. *Biological Conservation*, vol. 91, pp. 169–180.

Prior, L. & Eamus, D. (in press) 'Hydraulic architecture and xylem embolism in *Eucalyptus tetrodonta*: seasonal patterns and methodological considerations', *Plant, Cell and Environment*.

- Prior, L. & Eamus, D. (1999) 'Seasonal changes in leaf water characteristics of *Eucalyptus tetrodonta* and *Terminalia ferdinandiana* saplings in a north Australian savanna', *Australian Journal of Botany*, vol. 47.
- Quirk, M.F. (in press) 'Managing native pastures: facts and fallacies', *Tropical Grasslands*.
- Rea, N. & Storrs, M.J., (1999) 'Weed invasions in wetlands of Australia's Top End: reasons and solutions', *Wetlands Ecology and Management*, vol. 7, pp. 47-62.
- Runcie, M.J. (in press) 'Biparental care and obligate monogamy in the rock-haunting possum, (*Petropseudes dahli*) of tropical Australia', *Animal Behaviour*.
- 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 the North Australian Tropical Transect', *Australian Journal of Plant Physiology* vol. 25, pp. 413-425.
- Schulze E.D., Farquhar G., Miller, J.M., Schulze, W., Walker B.H. & Williams R.J. (1999) 'Interpretation of increased foliar d15N in woody species along a rainfall gradient in northern Australia: A comment on "Foliar d15N is negatively correlated with rainfall along the IGBP transect in Australia" by AT Austin & OE Sala', *Australian Journal of Plant Physiology* vol. 26, pp. 296-298.
- Thomas, D.S. & Eamus, D. (1999) 'The influence of predawn leaf water potential on stem hydraulic conductivity and foliar ABA concentrations and on stomatal responses to atmospheric water content at constant Ci', *Journal of Experimental Botany* vol. 50, pp. 243-251.
- Thomas, D.S., Eamus, D., & Bell, D (1999) 'Optimisation theory of stomatal behaviour I A critical evaluation of five methods of calculation', *Journal of Experimental Botany*, vol. 50, pp. 383-390.
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- Walden, D., Finlayson, M., van Dam, R., & Storrs M. (in press) 'Managing weeds in tropical wetlands: wetland risk assessment and *Mimosa pigra*', *Wetlands Ecology and Management*.
- Williams, R.J., Cook, G.D., Gill, A.M., & Moore, P.H.R. (1999b) 'Fire regime, fire intensity and tree survival in a tropical savanna in northern Australia', *Australian Journal of Ecology*, vol. 24, pp. 50-59.
- Williams R.J., Myers, B.A., Duff, G.A., Eamus, D. (in press) 'Reproductive phenology of woody species in a tropical savanna near Darwin, northern Australia', *Biotropica*, vol. 31.
- Woinarski, J.C.Z., Palmer, C., Fisher, A., Southgate, R., Masters, P. & Brennan, K. (1999) 'Distributional patterning of mammals on the Wessel and English Company Islands, Arnhem Land, Northern Territory, Australia', *Australian Journal of Zoology*, vol. 47, pp. 87-111.
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- Woinarski, J.C.Z., Gambold, N., Wurst, D., Flannery, T.F., Smith, A.P., Chatto, R. & Fisher, A. (1999) 'Distribution and habitat of the Northern Hopping Mouse *Notomys aquilo*,' *Wildlife Research*, vol. 26, pp. 495-511.
- Woinarski, J.C.Z., Franklin, D. & Connors, G. (1999) 'Landscape mapping of nectar resources as a base for conservation management', *Australian Biologist*, vol. 12, pp. 97-105
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Woinarski, J.C.Z. (in press) 'Range extension of the Inland Thornbill *Acanthiza apicalis* into the wet-dry tropics', *NT Naturalist*.

Woinarski, J.C.Z. (in press) 'The conservation status of rodents in the Top End of the Northern Territory', *Wildlife Research*.

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, north-eastern Arnhem Land, Northern Territory, Australia', *Australian Journal of Botany*.

Woinarski, J.C.Z., Franklin, D. & Connors, G. (in press) 'Thinking honeyeater: nectar maps for the Northern Territory, Australia, showing spatial and temporal variation in nectar availability', *Pacific Conservation Biology*.

Woinarski, J.C.Z., Brennan, K., Dee, A., Njudumul, J., Guthayguthay, P. & Horner, P. (in press) 'Further records of the False Water-rat *Xeromys myoides* from coastal Northern Territory', *Australian Mammalogy*.

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Conference and Workshop Papers

Ahmad W., Menges, C. & Hill, G.J.E. (1999) The application of remotely sensed data for monitoring reef zonation changes in Northern Australia,' *Proceedings 4th North Australian Remote Sensing and GIS Conference*, Darwin, Australia, June, CD-ROM #41.

Bell, D., van Zyl, J.J., Menges, C., & Ahmad, W., (1999) 'An evaluation of dielectric retrieval algorithm in the tropical savannas', *Proceedings 4th North Australian Remote Sensing and GIS Conference*, Darwin, June, CD-ROM #30.

Brown, J., Cooke, P., Langton, M., Levy, R., Morris, L., Palmer, L. & Storrs, M. (1999) 'Indigenous people and water resource development in northern Australia', in *Proceedings of the workshop on water and human security in Southeast Asia and Oceania 16–18 November 1998, Canberra*, Global Environmental Change and Human Security Project.

**Bartolo, R., Menges, C.H., (2000) 'Wetland mapping in northern Australia using SAR', *Proceedings of the Sixth International Conference Remote Sensing for Marine and Coastal Environments*, Charleston, South Carolina, USA, 1–3 May.

Bartolo, R.E., Bell, D., Pfitzner, K., Menges, C., Hill, G.J.E., Ahmad, W., Hosking, J., & Astondoa, E., (2000) 'Current Research and Future Directions for Coastal Remote Sensing in Northern Australia', *Sixth International Conference on Remote Sensing for Marine and Coastal Environments*, Charleston, South Carolina, 1–3 May 2000.

Collett, L., (1999) Operational monitoring of fire using regional scale satellite imagery: tools for strategic rangeland fire management', in *People and Rangelands: Building the Future, Proceedings of the VI International Rangeland Congress*, Eldridge, D., & Freudenberger, D., (eds) Townsville, Australia, vol. 2, pp. 764–765.

Fegan, M. (in press) 'Beginning an investigation into the use of fusion of image and non-image data for the automation of classification of a tropical wetland,' *Proceedings of the 10th Australasian Remote Sensing Photogrammetry Conference*, Adelaide, 21–25 August 2000.

Fell, R.F. & O'Leary, J. (2000) Developing the human resource of the Northern Territory Department of Primary Industry and Fisheries, in *Proceedings of the Flexible Learning for a Flexible Society Conference*, University of Southern Queensland, Toowoomba

Fisher, A. (in press) 'Wildlife conservation within a pastoral landscape: the Mitchell grasslands of northern Australia', in *Australasian Wildlife Management Society 12th Annual Meeting & Conference*, Darwin, Dec.

Hassett, R.C., Wood, H.L., Carter, J.O. & Danaher, T.J., 1999, 'Statewide ground-truthing of a spatial model', in *People and Rangelands: Building the Future, Proceedings of the VI International Rangeland Congress*, Eldridge, D., & Freudenberger, D., (eds) Townsville, Australia, vol. 2, pp. 763–764.

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Hynes, R.A., (2000) 'Action learning and action research for ecotourism: the Savannah Guides program' in *Proceedings of 7th Ecotourism Association of Australia Conference*, Kingfisher Bay, Fraser Island, Queensland, Oct.

Hynes, R., Lorimer, M., & Marshall, L. (in press) 'The Desert Uplands Community Scheme 1998–2004—A Strategy for Integrated Regional Development', *Proceedings Australian Rangeland Society Centenary Symposium*.

Khawaja, Z. H., Ahmad, W., & Williams, R.J., (1999) 'Use of varied resolution imagery for land cover mapping in semi-arid tropical savannas at Kidman Springs, northern Territory, Australia', *Proceedings 4th North Australian Remote Sensing and GIS Conference*, Darwin, June, CD-ROM #05.

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Menges, C., & Ahmad, W., (1999) 'Evaluation of AIRSAR data for the classification of vegetation communities in the tropical savannas of northern Australia', *Proceedings 4th North Australian Remote Sensing and GIS Conference*, Darwin, June, CD-ROM #33.

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Menges, C.H., Bell, D., Van Zyl, J. J., Ahmad, W., & Hill, G.J.E., (in press) 'Image classification of AirSAR data to delineate vegetation communities in the tropical savannas of northern Australia', *Proceedings of the 10th Australasian Remote Sensing Photogrammetry Conference*, Adelaide 21–25 Aug. 2000.

Pfitzer, K., & Bierwirth, P.N., (in press) 'Using Hymap Airborne Imagery and Field Spectra for the Evaluation of Mine Rehabilitation Success, Captains Flat, NSW', *10th Australasian Remote Sensing and Photogrammetry Conference*, Adelaide, Australia.

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Storrs, M.J., Cooke, P.M., Whitehead, P. & Finlayson, C.M. 1999, 'Aboriginal community wetland management in northern Australia', in *Proceedings of the workshop on indigenous people's and local communities' participation in wetland management, 8–9 May 1999, Sao Paulo, Costa Rica*. Global Biodiversity Forum.

Stafford Smith, M., McKeon, G., Buxton, R. & Breen, J. (1999) 'The integrated impacts of price, policy and productivity changes on land use in northern Australia', in *People and Rangelands: Building the Future, Proceedings of the VI International Rangeland Congress*, Eldridge, D., & Freudenberger, D., (eds) Townsville, Australia, vol. 2., pp. 864–866.

Williams, R. J., & Lane, A. (1999) 'Wet season burning as a fuel management tool in wet-dry tropical savannas: applications at Ranger Mine, Northern Territory, Australia', in *People and Rangelands: Building the Future, Proceedings of the VI International Rangeland Congress*, Eldridge, D., & Freudenberger, D., (eds) Townsville, Australia, pp. 972–977.

Woinarski, J.C.Z., and Whitehead, P.J. (in press) 'Introductory remarks: Conservation management at a landscape scale in northern Australia—coping with uncertainty and change', in *Australasian Wildlife Management Society 12th Annual Meeting & Conference*, Darwin, Dec.

** Awarded 'Best of Plenary Session'

Books or Chapters

Andersen, A.N. (2000) 'A global ecology of rain forest ants: functional groups in relation to stress and disturbance, in *Measuring and Monitoring Ant Biodiversity*, Agosti, D., Majer, J.D., & Tennant, L. (eds) Smithsonian Institution Press, Washington, US.

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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', *Nature Conservation 5: Conservation in Production Environments: Managing the Matrix*, ed. Craig, J. L., Mitchell, N. & Saunders, D. A., Surrey Beatty and Sons, Chipping Norton, Sydney, pp. 290–300.

Hynes, R. A. (1999) 'Participatory action research for integrated regional development in the Desert Uplands of Queensland,' in *Tertiary Teaching III*, McGinty, S., (ed.) James Cook University Press, Townsville, pp 25–37.

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Ludwig, J.A., (in press) 'The impact of disturbances on the sustainability of tropical savanna landscapes: two predictions and three principles', in *Management for Sustainable Ecosystems*, Hale, P., Petrie, A., Moloney, D., & Sattler, P., (eds) Centre for Conservation Biology, University of Queensland, Brisbane, Australia.

Maria Kraatz (in press) *Managing for Savanna Health in the Victoria River District*, Tropical Savannas CRC, 2000, Darwin, 56 pp.

*Williams, J., Keith, D. & Woinarski, J.C.Z. (in press) 'Biodiversity conservation—fire management from remnants to regions', in *Flammable Australia: the fire regimes and biodiversity of a continent*, Bradstock, R., Gill, M. & Williams, J. (eds).

*Woinarski, J.C.Z., and 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.

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Reports

Andersen, A.N. & Hoffmann, B. (2000) 'Ant monitoring at Callide Creek Mine, Queensland,' Report to Land Reclamation Services Pty. Ltd.

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Cook, G.D., Williams, R.J., Ludwig, J.A., & Tongway, D.T., (1999) 'Determinants of land Degradation in Tropical savannas', Final Report to the Land and Water Resources Research and Development Corporation.

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Fell, R.F. (1999) *Report on the Future Directions of the NTCA*, Report to the Northern Territory Cattlemen's Association, Tropical Savannas CRC, Darwin

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#Horstman, M. (in press) 'North Kimberley Traditional Owners' Land and Sea Management Planning', Report to the Balangarra and Wunumbal-Gaambera traditional landowners of the North Kimberley, Tropical Savannas CRC, Darwin.

Karfs, R., et al., (2000) 'Satellite-based Range Monitoring in Northern Australia: The Audit Rangeland Implementation Project', Final report to the National Land and Water Resources Audit.

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