

Publications: 1998–1999

Refereed Papers

Ahmad, W., Hill, G.J.E., O'Grady, A.P. & Pfitzner, K. (in press), 'Use of multispectral scanner data for the identification and mapping of tropical forests of northern Australia', *Asian-Pacific Journal of Remote Sensing*.

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Andersen, A. N. & Morrison, S. 1998 'Myrmecochory in Australia's seasonal tropics: Effects of disturbance on distance dispersal', *Australian Journal of Ecology*, vol. 23, pp. 483–91.

Churchill T.B. (in review), 'Differential selection of habitat patches in an Australian tropical lycosid', *Journal of Arachnology*.

Churchill, T.B. & Arthur, J.M. (in press), 'Measuring spider richness: Effects of different sampling methods at different spatial and temporal scales', *Journal of Insect Conservation*.

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

Cook, P.G., Hatton, T.J., Pidsley, D., Herczeg, A.L., Held, A.A., O'Grady, A. & Eamus, D. 1998b, 'Water balance of a tropical woodland ecosystem in northern Australia: A combination of micro-meteorological, soil physical and groundwater chemical approaches', *Journal of Hydrology*, vol. 210, pp. 161–77.

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Fensham, R.J. (1998) The influence of cattle grazing on tree mortality after drought in savanna woodland in north Queensland. *Australian Journal of Ecology* 23: 405-407

Fensham, R.J. and 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.

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Fisher, A. 1999, 'Wildlife of the Mitchell grasslands of northern Australia', Final Report to Australian Heritage Commission, *Parks and Wildlife Commission of the Northern Territory*, Darwin.

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- 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*.
- Franklin, D.C. (in press), 'Evidence of disarray amongst granivorous bird assemblages in the savanna of northern Australia, a region of sparse human settlement', *Biological Conservation*.
- Hatton, T.J., Cook, P.G., Kelley, G., O'Grady, A., Hutley, L., Reece, P., Farrow, R., Eamus, D., Pidsley, D. 1998, 'Hydrological investigation at Howard East, Northern Territory', *CSIRO Land and Water Technical Report*, 37/98.
- Hoffmann, B.D., Andersen, A.N. & Hill, G.J.E. (in press), 'Impact of an introduced ant on native rain forest invertebrates: *Pheidole megacephala* in monsoonal Australia', *Oecologia*.
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- Hutley, L.B., O'Grady, A.P. & Eamus, D. (in press), 'Evapotranspiration from eucalypt open-forest savanna of northern Australia', *Functional Ecology*.
- King, J.R., Andersen, A.N. & Cutter, A.D. 1998, 'Ants as bioindicators of habitat disturbance: Validation of the functional group model for Australia's humid tropics', *Biodiversity and Conservation*, vol. 7, pp. 1627–38.
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- Ludwig, J.A., Wiens, J.A. & Tongway, D.J. (in press), 'A scaling rule for landscape patches and how it applies to conserving soil resources in tropical savannas', *Ecosystems* vol. 2.
- Menges, C.H., Hill, G.J.E. and Ahmad, W. 1998, 'Landsat TM data and potential feeding grounds for threatened marine turtle species in northern Australia', *International Journal of Remote Sensing*, 19(6), pp. 1207-21.
- 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., van Zyl, J.J., Ahmad, W. & Hill, G.J.E. (in press), 'A procedure for the correction of the effect of variation in local incidence angle on AIRSAR data', *International Journal of Remote Sensing*.
- O'Grady, A.P., X. Chen, Eamus D. & Hutley, L.B. (in press) 'Composition, leaf area index and standing biomass of eucalypt open forests near Darwin in the Northern Territory, Australia.' *Australian Journal of Botany*.
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- Palmer, C. & Woinarski, J.C.Z. (in press), 'Seasonal roosts and foraging movements of the black flying fox *Pteropus alecto* in the Northern Territory: Resource tracking in a landscape mosaic', *Wildlife Research*.
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Woinarski, J.C.Z., Brock, C., Fisher, A., Milne, D. & Oliver, B. 1999, 'Response of birds and reptiles to fire regimes on pastoral land in the Victoria River District, Northern Territory', *Rangeland Journal*, 21, pp. 24-38.

Woinarski, J.C.Z., Fisher, A., Brennan, K., Morris, I., Willan, R.C. & Chatto, R. 1998, 'The Chestnut Rail *Eulabeornis castaneiventris* on the Wessel and English Company Islands: notes on unusual habitat and use of anvils', *Emu*, vol. 98, pp. 74-78.

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Conference and Workshop Papers

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

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*Andersen, A.N. 1998, 'Ants as bio-indicators: more than just wishful thinking', in *Proceedings of the Congress of the International Union for the Study of Social Insects*, Adelaide, December.

Cafe, L.M., McKeon, G.M., Dyer, R.M., & Heywood, J.M. 1999, 'Trees compete with pasture in the semi-arid tropics of the Northern Territory', in *People and Rangelands: Building the Future*, *Proceedings of the VI International Rangelands Congress*, vol. 1, Eldridge, D., & Freudenberger, D. (eds), VI International Rangelands Congress Inc. Aitkenvale, Queensland, p 291–92.

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- Ryan, P.G., Russell-Smith, J. & Gibson, M. 1999, 'Frequent fires on the Arnhem Plateau, Kakadu National park: Application of GIS for identification of ecologically unsustainable contemporary fire regime', in *Proceedings of the 4th NARGIS Conference*, Darwin, Australia, 28–30 June.
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- *Woinarski, J.C.Z. 1999, 'Prognosis and framework for the conservation of biodiversity in rangelands: Building on the north Australian experience', in *People and Rangelands: Building the Future, Proceedings of the VI International Rangelands Congress*, vol. 2, Eldridge, D. & Freudenberger, D. (eds), VI International Rangelands Congress Inc. Aitkenvale, Qld, pp. 639–45.

Other Publications

- Bartolo, R. E. & Hill, G.J.E. Poster accepted for upcoming NARGIS 99 Conference.
- McCallum, B.S. 1998, 'An investigation of native tree incursion into native grassland at Moorrinya National Park, North Queensland', BAppSci (Hons) Thesis, James Cook University, Townsville.

Reports

- Andersen, A.N. & Hoffmann, B. 1998, 'Ant monitoring at German Creek Mine, Queensland', *Report to Capricorn Coal Management Pty Ltd*, 20 pp.
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- Andersen, A.N., Morrison, S., Belbin, L., Ashwath, N. & Brennan, K. 1998, 'The role of ants in mine-site 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, ISBN 0 642 24333 6.
- Arnott, A., Benson, R., Crawford, K., Herbert, S., Leybourne, M., Shaw, G., & Speirs, R. 1999, 'Learning processes and the impact of change on pastoralists in the tropical savannas of northern Australia' in *People and Rangelands: Building the Future, Proceedings of the VI International*

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VRD Publications for 1998-99

Arnott, A., Benson, R., Crawford, K., Herbert, S., Leybourne, M., Shaw, G., & Speirs, R. 1999, 'Learning processes and the impact of change on pastoralists in the tropical savannas of northern Australia' in *People and Rangelands: Building the Future, Proceedings of the VI International Rangelands Congress*, vol. 1, Eldridge, D., & Freudenberger, D. (eds), VI International Rangelands Congress Inc, Aitkenvale, Qld, pp. 377-378

Café, L.M., McKeon, G.M., Dyer, R.M., & Heywood, J.M. 1999, 'Trees compete with pasture in the semi-arid tropics of the Northern Territory', in *People and Rangelands: Building the Future, Proceedings VI International Rangelands Congress*, vol. 1, Eldridge, D., & Freudenberger, D. (eds), International Rangelands Congress, Inc. Aitkenvale, Queensland, p 291–92.

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