

# Publications: 2003–04

## Refereed papers

- Allan, G., Johnson, A., Cridland, S. & Fitzgerald, N. 2003, 'Application of NDVI for predicting fuel curing at landscape scales in northern Australia: can remotely sensed data help schedule fire management operations', *International Journal of Wildland Fire*, 12, 299–308.
- Andersen A.N., Fisher A., Hoffmann B.D., Read J.L. & Richards R. 2004, 'Use of terrestrial invertebrates for biodiversity monitoring in Australian rangelands, with particular reference to ants', *Austral Ecology* 29, 87–92.
- Bosch, O.J.H., Ross, A.H. & Beeton, R.J.S. 2003, 'Integrating science and management through collaborative learning and better information management', *Systems Research and Behavioral Science*, 20: 107–118. Stanton, W, Lowe, J, Moffatt, J & Del Mar, C. 2004, 'Randomized control trial of a smoking cessation intervention directed at men whose partners are pregnant', *Preventive Medicine*, 38:6–9.
- Catterall, C.P. & Woinarski, J.C.Z. 2003, 'Birds of Coomoolooloo, central Queensland, from 1873 to 1999', *Sunbird*, 33, 77–98.
- Chen X., Eamus D., Hutley L.B. 2004, 'Seasonal patterns of fine-root productivity and turnover in a tropical savanna of northern Australia', *Journal of Tropical Ecology*, 20:221–224
- Churchill, T.B. & Ludwig, J.A. 2004, 'Changes in spider assemblages along grassland and savanna grazing gradients in northern Australia', *The Rangeland Journal*, 26: 3–16.
- Edwards, A., Kennett, R., Price, O., Russell-Smith, J.R.S., Spiers, G. & Woinarski J.C.Z. 2003, 'Monitoring the impacts of fire regimes on vegetation in northern Australia an example from Kakadu National Park', *International Journal of Wildland Fire*, 12, 427–440.
- Fensham, R.J. & Fairfax, R.J. 2003, 'A land management history for central Queensland, Australia as determined from landholder questionnaire and other sources', *Journal of Environmental Management*, 68, 409–420.
- Fensham, R.J. & Fairfax, R.J. 2003, 'Assessing woody vegetation cover change in north-west Australian savanna using aerial photography', *International Journal of Wildland Fire*, 12: 359–367.
- Fensham, R.J., Fairfax, R.J., Bowman, D.M.J.S. & Butler, D.W. 2003, 'Effects of fire and drought in a tropical eucalypt savanna colonised by rain forest', *Journal of Biogeography*, 30: 1405–1414.
- Fensham, R.J., Low Choy, S.J., Fairfax, R.J. & Cavallaro, P.C. 2003, 'Modelling trends in woody vegetation structure in semi-arid Australia as determined from aerial photography', *Journal of Environmental Management*, 68:421–436.
- Fensham, R.J. & Butler, D.W. 2004, 'The spatial pattern of dry rainforest colonising unburnt *Eucalyptus* savanna', *Austral Ecology*, 29: 121–128.
- Fisher, R., Vigilante, T., Yates, C.P. & Russell-Smith, J.R.S. 2003, 'Patterns of landscape fire and predicted vegetation response in the North Kimberley region of Western Australia', *International Journal of Wildland Fire*, 12: 369–379.
- Gill, A.M., Allan, G.E. & Yates, C. 2003, 'Fire-created patchiness in Australian savannas', *International Journal of Wildland Fire*, 12, 323–331.
- Kondo, Y., Takegawa, N., Miyazaki, Y., Ko, M., Koike, M., Kita, K., Kawakami, S., Shirai, T., Ogawa, T., Blake, D.R., Liley, B., Russell-Smith, J.R.S. 2003 'Effects of biomass burning and lightning on atmospheric chemistry over Australia and South-east Asia', *International Journal of Wildland Fire*, 12: 271–281.
- Kutt, A.S., Thurgate, N.Y. & Hannah, D.S. 2004, 'Distribution and habitat of the desert mouse (*Pseudomys desertor*) in Queensland', *Wildlife Research*, 31, 129–142.
- Kutt, A.S. 2003, 'Two north-western Queensland records of Gould's Long-eared Bat *Nyctophilus gouldi* (Chiroptera: Vespertilionidae) and evidence of cave roosting', *Australian Zoologist* 32: 480–481.

Ludwig, J.A., Tongway, D.J. Bastin, G.N. & James, C. 2004, 'Monitoring ecological indicators of rangeland functional integrity and their relationship to biodiversity at local to regional scales', *Austral Ecology*, 29: 108–120.

Milne, D.J., Reardon, T.B. & Watt, F. 2003, 'New records for the Arnhem sheath-tail bat *Taphozous kapalgensis* (Chiroptera: Emballonuridae) from voucher specimens and Anabat recordings', *Australian Zoologist*, 32, 439–445.

Milne, D.J., Armstrong, M., Fisher, A., Flores, T. & Pavey, C.R. 2004, 'A comparison of three survey methods for collecting bat echolocation calls and species accumulation rates from nightly Anabat recordings', *Wildlife Research*, 31, 57–63.

Moffatt, J. & Whip, R. 2004, 'Farewell to an "Old Friend": Smoking Cessation and Blue Collar Males', *Health Education Journal*, 64(2): 101–112.

Price, O., Russell-Smith, J.R.S., Edwards, A., 2003, 'Fine-scale patchiness of different fire intensities in sandstone heath vegetation in northern Australia', *International Journal of Wildland Fire*, 12, 227–236.

Ritchie, E. 2004, 'Ecology Around Australia (Queensland). The macroecology and conservation of a tropical kangaroo', *Bulletin of the Ecological Society of Australia*, Vol. 34:1, p. 20.

Russell-Smith, J.R.S., Whitehead, P.J., Cook, G.D. & Hoare, J.L. 2003, 'Response of *Eucalyptus*-dominated savanna to frequent fires: lessons from Munmarlary', 1973–1996, *Ecological Monographs*, 73: 349–375.

Russell-Smith, J.R.S., Whitehead, P.J., Williams, R.J., Flannigan, M. 2003, 'Fire and savanna landscapes in northern Australia—regional lessons and global challenges', *International Journal of Wildland Fire*, 12:1–5.

Russell-Smith, J.R.S., Yates, C.P., Edwards, A., Allan, G.E., Cook, G.D., Cooke, P., Craig, R., Heath, B., Smith, R. 2003, 'Contemporary fire regimes of northern Australia: change since Aboriginal occupancy, challenges for sustainable management', *International Journal of Wildland Fire*, 12: 283–297.

Trainor, C.R. 2004, 'First record of the Christmas Island Frigatebird *Fregata andrewsi* for East Timor', *Forktail*, 20.

Trainor, C.R. & Soares, T. 2004, 'Birds of Atauro island, Timor-Leste (East Timor)', *Forktail*, 20: 33–40.

Trainor, C. Sept 2003, 'Surveys help identify conservation priorities in Timor Leste', *World Birdwatch*, p. 10.

Trainor, C. R. 2003, 'First record of the Christmas Island Frigatebird *Fregata andrewsi* for East Timor', *Forktail*, 19.

Trainor, C. R. 2003, 'The birds of Lembata (Lomblen), Lesser Sundas', *Kukila*, 12: 39–53.

Trainor, C. R. 2003, 'Recent bird observations from Kisar Island, Lesser Sundas', *Kukila*, 12: 54–58.

Vigilante, T. & Bowman, D.M.J.S. 2004, 'Effects of fire history on the structure and floristics of woody vegetation around Kalumburu, north Kimberley, Australia: a landscape-scale natural experiment', *Australian Journal of Botany*, 52, 381–404.

Vigilante, T. & Bowman, D.M.J.S. 2004, 'Effects of individual fire events on the flower production of fruit-bearing woody species at Kalumburu, north Kimberley', *Australian Journal of Botany*, 52, 405–415.

Whitehead, P.J., Bowman, D.M.J.S., Preece, N., Fraser, F. & Cooke, P. 2003, 'Customary use of fire by indigenous peoples in northern Australia: its contemporary role in savanna management', *International Journal of Wildland Fire*, 12: 415–425.

Williams, R.J., Hutley, L.B., Cook, G.D., Russell-Smith, J.R.S., Edwards, A. & Chen, X. 2004, 'Assessing the carbon sequestration potential of mesic savannas in the Northern Territory, Australia: approaches, uncertainties and potential impacts of fire', *Functional Plant Biology*, 31: 415–422.

Woinarski, J.C.Z. & Catterall, C.P. 2004, 'Historical changes in the bird fauna at Coomooboolaroo, northeastern Australia, from the early years of pastoral settlement (1873) to 1999', *Biological Conservation*, 116, 379–401.

Woinarski, J.C.Z., Risler, J. & Kean, L. 2004, 'The response of vegetation and vertebrate fauna to 23 years of fire exclusion in a tropical *Eucalyptus* open forest, Northern Territory, Australia', *Austral Ecology*, 29, 156–176.

Woinarski, J.C.Z. & Fisher, A. 2003, 'Conservation and maintenance of biodiversity in the rangelands', *Rangelands Journal*, 25: 157–171.

Ziembicki, M. 2003, 'Tracking nomadic birds and habitat health', *Ecos*, 117:29.

## Conference and workshop papers

### National

Dixon, I., Douglas, M.M., Burrows, D., Dowe, J., Grice, T., Ludwig, J., Mitchell, S., Setterfield, S. & Werren, G. 2003, *Savanna Riparian Health Workshop I: The development of a Tropical Rapid Appraisal of Riparian Condition (TRARC)*, Summary of a workshop held at James Cook University, Townsville, 29 October 2003, Tropical Savannas Management CRC, Charles Darwin University, Darwin.

Greiner, R., Stoeckl, N. & Schweigert, R. 2004, 'Estimating community benefits from tourism: The case of Carpentaria Shire', in *Proceedings of the Australian Agricultural and Resource Economics Society, 48th Annual Conference*, Melbourne, 11–13 February, 32 pp.

Smajgl, A., Vella, K. & Greiner, R. 2003, 'Frameworks and models for analysis and design of property rights in Outback regions', in *Proceedings of the Pacific meeting of the International Association of the Study of Common Property (IASCP)*.

Smajgl, A. 2004, 'Modelling the effect of learning and evolving rules on the use of common-pool resources—Simulations in an agent-based model', *Proceedings of the Australian Agricultural and Resource Economics Society, 48th Annual Conference*, Melbourne, 11–13 February, 32 pp.

### International

Fisher, A. 2003, 'Biodiversity conservation in productive rangelands in northern Australia', in *Rangelands in the New Millennium, Proceedings of the VIIth International Rangelands Congress*, 26 July–1 August 2003, Durban, South Africa, eds N. Allsop, A.R. Palmer, K.P. Milton, G.I.H. Kirkman, G.I.H. Kerley, C.R. Hurt & C.J. Brown, International Rangeland Congress, Durban, pp. 236–239.

Greiner, R., Stoeckl, N. & Mayocchi, C. 2003, 'Improving benefits from tourism to communities in Australia's tropical savannas', in *Proceeding of the International Conference on Modelling and Simulation, (MODSIM 2003)* Townsville, Queensland, 14–17 July, The Modelling and Simulation Society of Australia and New Zealand, Canberra, pp. 1154–1159.

Howden, S.M., Stokes, C.J., Ash, A.J. & MacLeod, N.D. 2003, 'Reducing net greenhouse gas emissions from a tropical rangeland in Australia', in *Rangelands in the New Millennium, Proceedings of the VIIth International Rangelands Congress*, 26 July–1 August 2003, Durban, South Africa, eds N. Allsop, A.R. Palmer, K.P. Milton, G.I.H. Kirkman, G.I.H. Kerley, C.R. Hurt & C.J. Brown, International Rangeland Congress, Durban, pp. 1080–1082.

Hunt, L.P., Petty, S., Cowley, R.A., Fisher, A., Goody, L. & MacDonald, N. 2003, 'Improving grazing distribution, productivity and land condition in extensively grazed landscapes', in *Rangelands in the New Millennium, Proceedings of the VIIth International Rangelands Congress*, 26 July–1 August 2003, Durban, South Africa, eds N. Allsop, A.R. Palmer, K.P. Milton, G.I.H. Kirkman, G.I.H. Kerley, C.R. Hurt & C.J. Brown, International Rangeland Congress, Durban, pp. 876–878.

Kutt, A.S., Fisher, A. & O'Reagain P.J. 2004, 'The influence of different grazing strategies in the patterns of vertebrate fauna in a tropical savanna woodland', in *Rangelands in the New Millennium, Proceedings of the VIIth International Rangelands Congress*, 26 July–1 August 2003, Durban, South Africa, eds N. Allsop, A.R. Palmer, K.P. Milton, G.I.H. Kirkman, G.I.H. Kerley, C.R. Hurt & C.J. Brown, International Rangeland Congress, Durban, pp. 341–342.

Liedloff, A.C., Ludwig, J.A., Coughenour, M.B. & Post, D.A. 2003, 'Simulating overland flow and soil infiltration using an ecological approach', in *Proceedings of the International Congress on Modelling and Simulation (MODSIM 2003)*, Townsville, Australia, 14–17 July 2003.

Boer, M.M., Ludwig, J.A., Bastin, G.N., Eager, R.W., & Liedloff, A.C. 2003, 'Testing a landscape leakiness index with a physically-based soil erosion model', in *Rangelands in the New Millennium, Proceedings of the VIIth International Rangelands Congress*, 26 July–1 August 2003, Durban, South Africa, eds N. Allsop, A.R. Palmer, K.P. Milton, G.I.H. Kirkman, G.I.H. Kerley, C.R. Hurt & C.J. Brown, International Rangeland Congress, Durban, pp. 691–693.

O'Reagain, P. McKeon, G., Day, K. & Ash, A. 2003, 'Managing the temporal variability in extensive rangelands: A perspective from northern Australia', in *Rangelands in the New Millennium, Proceedings of the VIIth International Rangelands Congress*, 26 July–1 August 2003, Durban, South Africa, eds N. Allsop, A.R. Palmer, K.P. Milton, G.I.H. Kirkman, G.I.H. Kerley, C.R. Hurt & C.J. Brown, International Rangeland Congress, Durban.

O'Reagain P.J. & Bushell J.J. 2003, 'The effects of fire on woodland structure and density in a north Australian tropical savanna,' in *Rangelands in the New Millennium, Proceedings of the VIIth International Rangelands Congress*, 26 July–1 August 2003, Durban, South Africa, eds N. Allsop, A.R. Palmer, K.P. Milton, G.I.H. Kirkman, G.I.H. Kerley, C.R. Hurt & C.J. Brown, International Rangeland Congress, Durban, pp. 393–395.

O'Reagain P.J. & Bushell J.J. 2003, 'Effect of grazing strategy on animal production in a seasonably variable tropical savanna', in *Rangelands in the New Millennium, Proceedings of the VIIth International Rangelands Congress*, 26 July–1 August 2003, Durban, South Africa, eds N. Allsop, A.R. Palmer, K.P. Milton, G.I.H. Kirkman, G.I.H. Kerley, C.R. Hurt & C.J. Brown, International Rangeland Congress, Durban, pp. 913–915.

Stokes, C.J., Ash, A.J. & Holtum, J.A.M. 2003, 'OZFACE: Australian savannas free air carbon dioxide enrichment facility', in *Rangelands in the New Millennium, Proceedings of the VIIth International Rangelands Congress*, 26 July–1 August 2003, Durban, South Africa, eds N. Allsop, A.R. Palmer, K.P. Milton, G.I.H. Kirkman, G.I.H. Kerley, C.R. Hurt & C.J. Brown, International Rangeland Congress, Durban, pp. 1097–99.

## Books or chapters

Firth, R.S.C. 2003, 'Activity range and den trees of the brush-tailed rabbit-rat on Cobourg Peninsula, Northern Territory, Australia', in *Rats, Mice and People: Rodent biology and Management*, eds G. Singleton, L. Hinds, C. Krebs & D. Spratt, Australian Centre for International Agricultural Research Canberra.

Woinarski, J.C.Z. 2004, 'In a land with few possums, even the common are rare: ecology, conservation and management of possums in the Northern Territory', in *The biology of Australian possums and gliding possums*, ed R. Goldingay & S. Jackson, Surrey Beatty & Sons, Sydney, pp.51–62.

McCullough, M. & Musso, B. (eds) *Healthy Rangelands: Principles for Sustainable Systems, Focus on Australia's Burdekin Rangelands*, Queensland Department of Primary Industries and Tropical Savannas Management CRC, Rockhampton, Queensland, 240 pp.

## Reports

Greiner, R., Mayocchi, C., Larson, S., Stoeckl, N. & Schweigert, R. 2004, *The benefits and costs of tourism for remote communities Case study for Carpentaria Shire in Northwest Queensland*, Tropical Savannas Management CRC and CSIRO Sustainable Ecosystems, Townsville, Queensland, 66 pp.

Fisher, A, Kutt, A., Risler, J., Milne, D., Petit, J. & Andersen, A. 2004, *Biodiversity at the "Toorak" grazing trial, northwestern Queensland*, Report to Queensland Department of Primary Industries & Fisheries.

Fisher, A., Hunt, L., James, C., Landsberg, J., Phelps, D., Smyth, A. & Watson, I. 2004, *Total Grazing Pressure and Biodiversity in the Rangelands*, Report to the Department of Environment, CRCs for Desert Knowledge and Tropical Savannas Management, Alice Springs and Darwin.

Hutley L.B. & Williams R.J. 2004, *Assessment of the state of understanding of carbon stocks and flows for the Northern Territory savannas*, prepared for the Greenhouse Unit, Northern Territory Government, CRC for Tropical Savannas Management, Charles Darwin University, Darwin NT, 14 pp.

Johnson, S. 2003, *Tourism Development on Yanyuwa Country: a community initiative in the southwest Gulf of Carpentaria, Borroloola*, prepared for the Mabunji Aboriginal Resource Association.

McDonald, G.T., McAlpine, C.A., Taylor, B.M. & Vagg, A. 2003, *Criteria and methods for evaluating regional plans in tropical savanna regions, Stage 1 Report for Project 3.2.1, Regional Planning in the Tropical Savannas*, Tropical Savannas Management CRC and CSIRO, Brisbane, Queensland, 132 pp.

Myers, B., Allan, G., Bradstock, R., Dias, L., Duff, G., Jacklyn, P., Landsberg, J., Morrison, J., Russell-Smith J.R.S. & Williams, R.J. 2004, *Fire management in the rangelands*, Final report to the Department of Environment and Heritage, Canberra, Tropical Savannas Management CRC, Charles Darwin University.

Russell-Smith, J.R.S., Edwards, A.C., Cook, G.D., Brocklehurst, P. & Schatz, J. 2004, *Improving greenhouse emissions estimates associated with savanna burning in northern Australia: Phase 1*, Final report to the Australian Greenhouse Office, Canberra, Tropical Savannas Management CRC, Charles Darwin University, Darwin.

Smyth A., James, C. & Whiteman, G. 2003, *Biodiversity monitoring in the rangelands: a way forward. Vol. 1*, prepared for Environment Australia and CSIRO.

Stafford Smith, M. (Ed) 2003, *Options for Understanding Regional Dynamics in Northern Australia*, Tropical Savannas Management CRC Project Report, CSIRO, Alice Springs, 92 pp.

Taylor, R., Woinarski, J.C.Z., Charlie, A., Dixon, R., Pracy, D. & Rhind, S. 2004, *Report on mammal survey of the Pellew Islands, October 2003*, Northern Territory Department of Infrastructure Planning and Environment, Darwin.

Tompson, J., Sharp, D. & Kutt, A.S. 2003, 'Regional Ecosystems of the Desert Uplands. A Lucid Interactive Key', Queensland Herbarium, Brisbane.

## Newsletters and magazines

*Savanna Links*, Issue 26, July–October, 2003, K. O'Donnell, P. Jacklyn, (eds), Tropical Savannas Management CRC, James Cook University, Townsville.

*Savanna Links*, Issue 27, January–March, 2004, K. O'Donnell, P. Jacklyn, (eds), Tropical Savannas Management CRC, James Cook University, Townsville.

Rankmore, B., Woinarski, J., Taylor, R., Morris, I., Lirrwa, Armstrong, M., Ziembicki, M., Mahney, T., Yumbulul, T., Lawson, D., Oakwood, M. & Fox, K. 2003, 'Island refuge gives quolls chance at survival', *Savanna Links* 26, pp. 7, 12.

Woinarski, J., Taylor, R., Charlie, A., Dixon, R., Pracy, D. & Chapman, F. 2004, 'Island defences help at-risk mammals', *Savanna Links*, Issue 28, April–June, Tropical Savannas Management CRC, James Cook University, Townsville, pp XX.

Dixon, I. & Douglas, M.M. 2004, 'Tropical rapid appraisal of riparian condition', *Savanna Links*, Issue 28, April–June, 2004, Tropical Savannas Management CRC, James Cook University, Townsville.

## Posters

Cranston, N., Douglas, M., Fisher, A. & Setterfield, S. 2003, 'The effectiveness of riparian fencing for biodiversity protection', presented at the Ecological Society of Australia Conference, ECOLOGY 2003, University of New England, Armidale, 8–10 December.

Cranston, N., Douglas, M., Fisher, A. and Setterfield, S. 2003, 'The effectiveness of riparian fencing for biodiversity protection', presented at the Australian and New Zealand Limnological Society Congress, Warnambool, 1–5 December.

Cranston, N., Douglas, M., Fisher, A. & Setterfield, S. 2004, 'The effectiveness of riparian fencing for biodiversity protection', presented at the Sustainable Futures for Australian Tropical Rivers Symposium, Charles Darwin University, Darwin, 1–3 February.

Dawes-Gromadzki, T.Z. & Cook, G.D. 2004, 'Stable isotopes and landscape function in banded mulga in central Australia', presented at the International Stable Isotope Ecology conference, Wellington, NZ, 18–20 April.

Ritchie, E. 2003, 'Climatic distributions of large macropods in northern Australia' presented at the Australian Mammal Society Conference, Sydney, 6–9 July.

Smith N.M. 2003, 'Indigenous ecological knowledge for land management: Conservation of Indigenous knowledge of plants and animals in central Cape York,' presented at the Cape York Land and Health Summit, Beagle Camp, Aurukun, August 5–7.

Smith N.M. 2003, 'Indigenous ecological knowledge for land management: Conservation of Indigenous knowledge of plants and animals in central Cape York', presented at the Cape York Expo, Cairns City Council, December 9.

Stokes, C.J., Ash A.J. & Holtum J.A.M. 2003, 'OZFACE: Australian savannas free air carbon dioxide enrichment facility', presented at the Rangelands in the New Millennium: the VIIth International Rangelands Congress, 26 July – 1 August 2003, Durban, South Africa.

Vagg, A. 2003, 'Exploring the factors shaping grazier goals and motivations for environmental management within the Australian tropical savannas', presented at the Outback Summit, Environment Institute of Australia and New Zealand, Broken Hill, 22–24 October.

Ziembicki, M. 2003, 'Nomadism and the conservation conundrum: a case study using the Australian Bustard' presented at the Third International Wildlife Management Congress, Christchurch, New Zealand, 1–5 December.

## **Theses**

Johansen, K. 2003, Monitoring the Health of Riparian Vegetation in Australian Tropical Savannas using High and Moderate Spatial Resolution Satellite Imagery, B.Sc. Honours Thesis, School of Geography, Planning and Architecture, The University of Queensland.

\* Underline denotes CRC researcher