

Research outputs for Fowlers Gap (1956-2020)

1956

Aitchison, G. D. (1956). Circumstances of unsaturation in soils with particular reference to the Australian environment. Proceedings of the Second Australian-New Zealand Conference on Soil Mechanics and Foundation Engineering, Christchurch: 173-191.

1957

Aitchison, G. D. (1957). Strength of quasi-saturated and unsaturated soils in relation to the pressure deficiency in the pore water. Proceedings of the Fourth International Conference on Soil Mechanics and Foundation Engineering, London: 135-139.

1961

Aitchison, G. D. (1961). Relationship of moisture stress and effective stress functions in unsaturated soils. Conference of Pore Pressure and Suction in Soils, London: 47-62.

1966

Newman, J. C. (1966). Waterponging for soil conservation in arid areas of New South Wales. Journal of Soil Conservation **22**(1): 2-12.

1967

Taylor, N. F. (1967). Geology of the Caloola Syncline and Sturts Meadows Anticline. Unpublished BSc. (Hons) thesis. University of N.S.W., Sydney.

Ward, C. R. (1967). Geology of the Fowler's Gap-Nundooka District. Unpublished BSc. (Hons) thesis. University of N.S.W., Sydney.

Wright-Smith, C. N. (1967). Geology of the Fowlers Gap Homestead District. Unpublished BSc. (Hons) thesis. University of N.S.W., Sydney.

1969

Dawson, T. J. and Denny, M. J. S. (1969). A bioclimatological comparison of the summer day microenvironments of two species of arid zone kangaroos. Ecology **50**(2): 328-332.

Dawson, T. J. and Denny, M. J. S. (1969). Seasonal variation in the plasma and urine electrolyte concentration of the arid zone kangaroos *Megaleia rufa* and *Macropus robustus*. Australian Journal of Zoology **17**: 777-784.

Hughes, R. L. (1969). A light and electron microscope study of the tertiary egg membranes of three marsupial species: *Trichosurus vulpecula*: *Macropus robustus*: *Megaleia rufa*. Journal of Anatomy **104**: 407.

Richardson, B. J. and Czuppon, A. B. (1969). Geographical variation in quantitative red blood cells glucose-6-phosphate dehydrogenase in the euro (*Macropus robustus*; Marsupialia). Australian Journal of Science **32**: 106-107.

Richardson, B. J. and Russell, E. M. (1969). Changes with ages in the proportion of nucleated red blood cell types and in the type of haemoglobin in kangaroo pouch young. Australian Journal of Experimental Biology and Medical Science **47**: 573-580.

Russell, E. M. (1969). Summer and winter observations of the behaviour of the euro, *Macropus robustus* (Gould). Australian Journal of Zoology **17**: 655-664.

Ward, C. R., Wright-Smith, C. N. and Taylor, N. F. (1969). Stratigraphy and structure of the north-east part of the Barrier Ranges. New South Wales. Journal and Proceedings of the Royal Society of New South Wales **102**: 57-71.

1970

- Dawson, T. J. and Brown, G. D. (1970). A comparison of the insulative and reflective properties of the fur of desert kangaroos. *Comparative Biochemical Physiology* **37**: 23-38.
- Dawson, T. J. and Ellis, B. A. (1970). Comparison of the diets of yellow-footed rock-wallabies and sympatric herbivores in Western New South Wales. *Australian Wildlife Research* **6**: 245-254.
- Dawson, T. J. and Hulbert, A. J. (1970). Standard metabolism, body temperature, and surface areas of Australian marsupials. *American Journal of Physiology* **218**(4): 1233-1238.
- Perry, R. A. (1970). Arid shrublands and grasslands. Moore, R. M. [Eds]. *Australian Grasslands*, ANU Press, Canberra: 246-259.
- Richardson, B. J. and Czuppon A. B. (1970). Interpopulation differences in red blood cell enzyme levels of the wallaroo *Macropus robustus* (Marsupialia). *Australian Journal of Biological Science* **23**: 617-621.
- Charlesworth, D. H. (1970). A study of dust contamination in Merino wool in low rainfall areas. Unpublished MSc. thesis. University of N.S.W., Sydney.
- Shorey, C. D. (1970) Ultrastructural studies on the uterine luteal phase in the marsupial, *Trichosurus vulpecula*. Unpublished PhD thesis. University of N.S.W., Sydney.

1971

- Air, G. M., Thompson, E. O. P., Richardson, B. J. and Sherman, G. B. (1971). Amino acid sequences of kangaroo myoglobin and haemoglobin. *Nature* **229**: 391-394.
- Chudleigh, P. D. (1971). Some observations on pastoral management in the Western Division of New South Wales. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 1.
- Cooper, P. F. and Tuckwell, K. D. (1971). The Upper Precambrian Adelaidean of the Broken Hill Area – a new Subdivision. *Quarterly Notes of the Geological Survey of New South Wales* **3**: 8-16.
- Donald, I. (1971). Engineering properties of soils in arid and semi-arid environments. *Proceedings of the Symposium on Soils and Earth Structures in Arid Climates*, Adelaide: 49-61.
- Northcote, K. H. (1971). The broad soil landscapes of arid Australia. *Proceedings of the Symposium on Soils and Earth Structures in Arid Climates*, Adelaide: 98-106.
- Russell, E. M. and Richardson, B. J. (1971). Some observations on the breeding, age structure, dispersion and habitat of populations of *Macropus robustus* and *Macropus antilopinus* (Marsupialia). *Journal of Zoology London* **165**: 131-142.
- Thorburn, G. D., Cox, R. I. and Shorey, C. D. (1971). Ovarian steroid secretion rates in the marsupial, *Trichosurus vulpecula*. *Journal of Reproductive Fertility* **24**: 139.
- Warren, J. F. (1971). Estimating grazing trends in western New South Wales by dung sampling. *Journal of Soil Conservation* **27**(3): 182-186.
- Chudleigh, P. D. (1971). Pastoral management in the West Darling Region of New South Wales. Unpublished PhD thesis. University of N.S.W., Sydney

1972

- Bailey, P. T., Hall, L. S., Myers, K. and Parker, B. S. (1972). Fauna of the Fowlers Gap–Calindary areas. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 4.
- Bell, F. C. (1972). Climate. Lands of the Fowlers Gap–Calindary area. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 4.
- Bell, F. C. (1972). Rainfall intensities in inland Australia. Institute of Australian Geographers' Conference, Canberra.
- Carrick, F. N. (1972). Biotelemetry of temperature in the Euro, *Macropus robustus*. *Australian Mammalogy* **1**: 65.
- Chudleigh, P. D. and Filan, S. J. (1972). A feed index system for simulating stocking rate adjustments in arid areas. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 2.
- Chudleigh, P. D. and Filan, S. J. (1972). A simulation model of an arid zone sheep property. *Australian Journal of Agricultural Economics* **16**: 183-194.
- Dawson, T. J. (1972). Likely effects of standing and lying on the radiation heat load experienced by a resting kangaroo on a summer day. *Australian Journal of Zoology* **20**: 17-22.

- Dawson, T. J. (1972). Thermoregulation in Australian desert kangaroos. Symposium of the Zoological Society of London **31**: 133-146.
- Duncan, R. C. (1972). Technological change in the arid zone of New South Wales. Australian Journal of Agricultural Economics **16**(1): 22-33.
- Mabbutt, J. A., P. F. Bailey, F. C. Bell, J. R. Corbett, L. S. Hall, P. L. Milthorpe, K. Myers, J. C. Ngethi, B. S. Parker, and M. Sullivan (1972). Lands of the Fowlers Gap–Calindary area. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 4.
- Russell, E. M. and Nicholls, D. G. (1972). Drinking behaviour in the red kangaroo (*Megaleia rufa*) and the Euro (*Macropus robustus*). Z Saugetierkunde **37**: 311-315.
- Shorey, C. D. and Hughes, R. L. (1972). Uterine glandular regeneration during the follicular phase in the marsupial *Trichosurus vulpecula*. Australian Journal of Zoology **20**: 235-247.
- Tassell, R. and Kennedy, J. P. (1972). Tinctorial differentiation of the cell types in the pars anterior of the sheep. Australian Journal of Biological Sciences **25**: 1249-1257.
- Field, J. B. (1972). A land system survey of the Corona Area New South Wales with particular reference to the applicability of Northcote's factual key to classifying the soils. Unpublished BSc. (Hons) thesis. University of N.S.W., Sydney.

1973

- Bell, A. D. M., Cordery, I., Howell, D. T., Perrens, S. J. and Pilgrim, D. H. (1973). Water Resources of Fowlers Gap Station. Lands of Fowlers Gap Station, University of N.S.W. Research Series 5: 123-150.
- Bell, F. C. (1973). The climate of Fowlers Gap Station. Lands of the Fowlers Gap–Calindary area. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 5.
- Carrick, F. N. and Cox, R. I. (1973). Testosterone concentrations in the spermatic vein plasma of marsupials. Journal of Reproductive Fertility **32**: 338-339.
- Corbett, J. R. (1973). Soils on Fowlers Gap Station. Lands of Fowlers Gap Station, University of N.S.W. Research Series 5: 151-174.
- Dawson, T. J. (1973). Energetic cost of locomotion in kangaroos. Nature **246**(5431): 313-314.
- Dawson, T. J. (1973). Thermoregulatory responses of the arid zone kangaroos, *Megaleia rufa* and *Macropus robustus*. Comparative Biochemistry and Physiology **46**(A): 153-169.
- Dawson, T. J. and Russell, E. M. (1973). Mammalian fauna of Fowlers Gap Station. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 3.
- Denny, M. J. S. (1973). The use of ketamine as a safe, short duration anaesthetic in kangaroos. British Veterinary Journal **129**: 362-365.
- Denny, M. J. S. and Dawson, T. J. (1973). A field technique for studying water metabolism of large marsupials. Journal of Wildlife Management **37**(4): 574-578.
- Mabbutt, J. A. (1973). Geomorphology of Fowlers Gap Station. Lands of Fowlers Gap Station, University of N.S.W. Research Series 5: 85-122.
- Mabbutt, J.A. (ed.) 1973. Lands of Fowlers Gap Station New South Wales. Fowlers Gap Arid Zone Research Station Research Series No. 3. University of New South Wales, Sydney.
- Shorey, C. D. and Hughes, R. L. (1973). Development, function, and regression of the corpus luteum in the marsupial *Trichosurus vulpecula*. Australian Journal of Zoology **21**: 1-19.
- Sullivan, M. E. (1973). Downstream changes in profile characteristics of Fowlers Creek, N.S.W. Proceedings of the Institute of Australian Geographers Conference.
- Ward, C. R. and Sullivan, M. E. (1973). Geology of Fowlers Gap Station. Lands of Fowlers Gap Station, University of N.S.W. Research Series 5: 67-84.
- Denny, M. J. S. (1973). Water relations in arid zone macropodids. Unpublished PhD thesis. University of N.S.W., Sydney.
- Hall, S. E. B. (1973). Assessment of arid-zone vegetation using airphoto pattern. Unpublished MSc. thesis. University of N.S.W., Sydney.

1974

- Dawson, T. J. (1974). Recent advances in marsupial physiology (non-reproductive). Australian Mammal **1**: 181-187.

- Dawson, T. J. and Robertshaw, D. and Taylor, C. R. (1974). Sweating in the kangaroo: a cooling mechanism during exercise, but not in the heat. *American Journal of Physiology* **227**(2): 494-498.
- Denny, M. J. S. and Dawson, T. J. (1974). A field technique for studying water metabolism of large marsupials. *Journal of Wildlife Management* **37**(4): 574-578.
- Hawker, H. and Kennedy, J. P. (1974). Factors affecting puberty in Merino ewes. *Proceedings of the Australian Society of Animal Production* **10**: 285.
- Hughes, R. L. (1974). Morphological studies in implantation in marsupials. *Journal of Reproductive Fertility* **39**: 173-186.
- Ingles, O. G. (1974). Surface catchment tanks and dams. Third Symposium on Studies of the Australian Arid Zone, CSIRO Rangelands Research Unit.
- Kennedy, J. P., Auldlist, I. H., Hawker, H., Popovic, P. and Reynolds, J. A. (1974). Management Strategies for Increasing Reproduction Rate of Sheep in Far Western New South Wales. *Wool Technology and Sheep Breeding* **21**(2): 49-51.
- Needham, A. D., Dawson, T. J. and Hales, J. R. S. (1974). Forelimb blood flow and saliva spreading in the thermoregulation of the red kangaroo, *Megaleia rufa*. *Comparative Biochemistry and Physiology* **49**(A): 555-565.
- Russell, E. M. (1974). Recent ecological studies on Australian marsupials. *Australian Mammal* **1**: 189-209.
- Russell, E. M. (1974). The biology of kangaroos. *Mammal Review* **4**: 1-59.
- Fisher, I. H. (1974). Resource optimization in arid grazing systems. Unpublished PhD thesis. University of N.S.W., Sydney.
- Holden, G. J. F. (1974). An evaluation of orthophotography in an integrated mapping system, UNISURV S-12. Unpublished PhD thesis. University of N.S.W., Sydney.
- Hughes, R. L. (1974). The tertiary egg membranes of the marsupial *Trichosurus vulpecula*. Unpublished PhD thesis. University of N.S.W., Sydney.
- 1975**
- Abrahams, A. D. (1975). Initial bifurcation process in natural channel networks. *Geology* **3**(6): 307-308.
- Auldlist, I. H., Taylor, R. and Kennedy, J. P. (1975). Evaluation of sheep handling devices for crutching. *Wool Technology and Sheep Breeding* **22**(3): 5-11.
- Dawson, T. J., Denny, M. J. S., Russell, E. M. and Ellis, B. A. (1975). Water usage and diet preferences of free ranging kangaroos, sheep and feral goats in the Australian arid zone during summer. *Journal of Zoology London* **177**: 1-23.
- Denny, M. J. S. and Dawson, T. J. (1975). Comparative metabolism of tritiated water by macropodid marsupials. *American Journal of Physiology* **228**(6): 1794-1799.
- Denny, M. J. S. and Dawson, T. J. (1975). Effects of dehydration on body-water distribution in desert kangaroos. *American Journal of Physiology* **229**(1): 251-254.
- Reynolds, J. A. (1975). The effect of time of Mulesing on lamb survival and production at Fowlers Gap in 1974. *West Darling Pastoralist, News Report* **83**: 2-4.
- Shorey, C. D. and Hughes, R. L. (1975). Uterine response to the ovariectomy during the proliferative and luteal phases in the marsupial *Trichosurus vulpecula*. *Journal of Reproductive Text* **42**: 221-228.
- Warren, J. F. (1975). Use of a dung sampling technique to measure relative grazing trends. *Journal of Soil Conservation N.S.W.* **27**(3): 182-186.
- White, A. W. and Harrop, C. J. F. (1975). The islets of Lanherhans of macropodid marsupials: a comparison with eutherian species. *Australian Journal of Zoology* **23**: 309-319.
- White, A. W. and Harrop, C. J. F. (1975). The islets of Lanherhans of macropodid marsupials. *Australian Mammal Society Bulletin* **3**(1): 33.
- White, A. W. (1975). Insulin receptor proteins in the erythrocytes of monotremes and other vertebrates. *Australian Zoology* **19**: 327-334.
- Ellis, B. A. (1975). Diet selection in two native and two introduced herbivores in an Australian Rangeland region. Unpublished MSc. thesis. University of N.S.W., Sydney.
- Filan, S. J. (1975). Rainfall studies in simulation of wool production in an arid region. Unpublished MSc. thesis. University of N.S.W., Sydney.

Hussein, M. (1975). A study of the groundwater resources at Fowlers Gap Arid Zone Research Station. Unpublished M.App.Sc. thesis. University of N.S.W., Sydney.

1976

Abrahams, A. D. and R. N. Campbell. (1976). Source and tributary-source link lengths in natural channel networks. *Geological Society of America Bulletin* **87** 7: 1016-1020.

Brain, J. (1976). Fowlers Gap Fences, University of New South Wales.

Brain, J. (1976). Cutting costs of fencing. *Wool Technology and Sheep Breeding* **23**(3).

Brain, J. (1976). Suspension fencing. *Power Farming* **85**(7): 20-22.

Brain, J. (1976). Suspension fencing. *The Agricultural Technologist Journal* **7**(3): 37-38.

Ballinger, J. A. (1976). Solarch Experimental House Mark 1 – Design Proposal. Proceedings of the International Solar Energy Society Symposium, Sydney.

Bowler, J. M. (1976). Aridity in Australia: Age, origin and expression in aeolian landforms and sediments. *Earth-science reviews* **12**(2-3): 279-310.

Kennedy, J. P., Auld, I. H., Popovic, P. G., and Reynolds, J. A. (1976). Reproduction rate of Merino sheep in arid N.S.W. Proceedings of the Australian Society of Animal Production: 149-151.

Morton, S. R. (1974). First record of forrest's mouse *Leggadina forresti* (Thomas, 1906) in N.S.W. *Victorian Naturalist* **91**(4): 92-94.

Newman, J. C. (1976). Land inventory aids and land management. *Journal of Soil Conservation* **32**(3): 136.

Richardson, B. J. and Sharman G. B. (1976). Biochemical and morphological observations on the wallaroos (Macropodidae: Marsupialia) with a suggested new taxonomy. *Journal of Zoology London* **179**: 499-513.

Russell, E. M. and Harrop, C. J. F. (1976). The behaviour of red kangaroos (*Megaleia rufa*) on hot summer days. *Z Tierpsychol.* **40**: 396-426.

Watts, J. E., Muller, M. J., Dyne, A. L. and Norris, K. R. (1976). The species of flies reared from struck sheep in South-Eastern Australia. *Australian Veterinary Journal* **52**: 488-489.

Morton, S. R. (1976). Ecological and physiological studies of *Sminthopsis crassicaudata* (Marsupialia: Dasyuridae). Unpublished thesis.

Sullivan, M. E. (1976). Drainage disorganization in arid Australia and its measurement. Unpublished M.Sc. thesis. University of N.S.W., Sydney.

Walsh, L. (1976). A survey of the vegetation of Salt I and Salt II paddocks of Fowlers Gap Research Station, relating the vegetation to selected soil properties. Unpublished BSc. (Hons) thesis. University of N.S.W., Sydney.

1977

Ballinger, J. A. (1977). Solarch Experimental House Mark 1 – the application of solar energy in Australian housing. *N.S.W. Builder* **6**(8): 404-411.

Ballinger, J. A. (1977). Solarch Experimental House Mark 1 – Design and Construction. *Thermal Insulator* **4**: 6-9.

Charley, J. L. (1977). Mineral cycling in rangeland ecosystems. Sosebee, R. E. [Eds]. *Rangeland Plant Physiology*, Society for Range Management, Range Science Series No 4, Denver.

Crozier, R. H. (1977). Evolutionary genetics of the Hymenoptera. *Annual Review of Entomology* **22**: 263-288.

Denny, M. J. S. and Dawson, T. J. (1977). Kidney structure and function of desert kangaroos. *Journal of Applied Physiology* **42**(4): 636-642.

Dawson, T. J. (1977). Kangaroos. *Scientific American* **237**(2): 78-79.

Ellis, B. A., Russell, E. M., Dawson, T. J. and Harrop, C. J. F. (1977). Seasonal changes in diet preferences of free-ranging red kangaroos, euros and sheep in Western New South Wales. *Australian Wildlife Research* **4**: 127-144.

Hasick, D. J. (1977). A two-layer model for momentum fluxes at vegetated surfaces. Second Australasian Conference on Heat and Mass Transfer, University of Sydney: 517-521.

Hasick, D. J. (1977). Heat and water vapour fluxes in an arid zone community. Graetz, R. D. and Howes, K. M. W. [Eds]. *Studies of the Australian Arid Zone IV. Chenopod Shrublands*: 54-60.

- Imai, H. T., Crozier, R. H. and Taylor, R. W. (1977). Karyotype evolution in Australian ants. *Chromosoma* **59**: 341-393.
- Sullivan, M. E. (1977). Desert floodouts: a study of the processes of failure of arid zone channels. Proceedings of the Institute of Australian Geographers Conference.
- Vorst, P. C. and Bell, F. C. (1977). Catchment geomorphology and its hydrologic significance: A review. Australian Representative Basins Program Report No. 2. Australian Water Resources Council, Canberra.
- White, A. W. and Harrop, C. J. F. (1977). The ontogeny of the kangaroo pancreas. *Australian Mammal Society Bulletin* **3**(2): 18-19.
- Carrick, F. N. (1977). Studies in the reproductive physiology of male marsupials. Unpublished PhD thesis. University of N.S.W., Sydney.
- Le Couteur, H. P. (1977). The Metamorphism and Structure of Part of the Willyama Complex, New South Wales. Unpublished PhD thesis. University of N.S.W., Sydney.

1978

- Ballinger, J. A. (1978). Solarch House. Smith, K. V. [Eds]. Australian Access No 2: 257-259.
- Beavis, F. C., Beavis, J. C. and Reade, L. M. (1978). Engineering geology of small water storage structures in Australian arid regions. *Quarterly Journal of Engineering Geology and Hydrogeology* **11**(4): 279-290.
- Cooper, P.F., Tuckwell, K. D., Gilligan, L. B. and Meares, R. M. D. (1978). Geology of the Torrowangee and Fowlers Gap 1: 100,000 sheets. Geological Survey of New South Wales, Department of Mines.
- Dawson, T. J. (1978). Osmotic and volume regulation during dehydration in desert kangaroos. *Osmotic and Volume Regulations, Alfred Benzon Symposium, Munksgaard*.
- Gray, S. J. and Kennedy, J. P. (1978). A comparison of rams bred in the arid zone with rams imported from studs. Australian Rangelands Society Conference, Adelaide.
- Hawker, H. and Kennedy, J. P. (1978). Puberty and subsequent oestrus activity in young Merino ewes. *Australian Journal of Experimental Agriculture and Animal Husbandry* **18**: 347-354.
- Hawker, H. and Kennedy, J. P. (1978). Influence of season and of reproductive status on the wool growth of Merino ewes in an arid environment. *Australian Journal of Experimental Agriculture and Animal Husbandry* **18**: 648-652.
- Kennedy, J. P. (1978). Net reproductive rates of Merino sheep flocks in an arid area. *Proceedings of the Australian Society of Animal Productions* **12**: 253.
- Martin, J. T. and Atkinson, W. (1978). The technology of rabbit control in a semi-arid environment; Chapter 4.5 Poisoning and Ripping Trials, Fowlers Gap (Area B). Department of Agriculture N.S.W.
- Morton, S. R. (1978). An ecological study of *Sminthopsis crassicaudata* (Marsupialia: Dasyuridae) I. Distribution, study areas and methods. *Australian Wildlife Research* **5**: 151-162.
- Morton, S. R. (1978). An ecological study of *Sminthopsis crassicaudata* (Marsupialia: Dasyuridae) II. Behaviour and social organisation. *Australian Wildlife Research* **5**: 163-182.
- Morton, S. R. (1978). An ecological study of *Sminthopsis crassicaudata* (Marsupialia: Dasyuridae) III. Reproduction and life history. *Australian Wildlife Research* **5**: 183-211.
- White, A. W. and Harrop, C. J. F. (1978). The ontogeny of the pancreas of macropodid marsupials. *Australian Journal of Zoology* **26**: 487-499.

1979

- Ballinger, J. A. (1979). Aspects of the performance of a direct gain passive solar house for an arid zone climate. Proceedings of the Thermal Insulation Institute of Australia Seminar: Energy and Thermal Insulations – The World Scene.
- Beavis, F. C. (1979). Engineering geology of farm water storages. *Journal of Proceedings of the Royal Society New South Wales* **112**: 1-6.
- Bell, F. C. (1979). Precipitation. Perry, R. A. and Goodall, D. W. [Eds]. *Arid-land ecosystems: structure, functioning and management*. Cambridge University Press: 373-392.
- Chapman, E. A. and Jacobs, S. W. L. (1979). Photosynthetic responses in semi-arid environments. Graetz, R. D. and Howes, K. M. V. [Eds]. *Studies of the Australian Arid Zone IV Chenopod Shrublands*: 41-53.

- Crozier, R. H. (1979). Genetics of sociality. Hermann, H. R. [Eds]. Social insects Vol I. Academic Press, New York: 223-286.
- Doran, D. G. (1979). A preliminary analysis of the applicability of generalized discrete distributions to sparse hydrological data. The hydrology of areas of low precipitation, Proceedings of the Canberra Symposium **128**: 43-49.
- Filan, S. J. (1979). Management and the Shrublands. Graetz, R. D. and Howes, K. M. W. [Eds]. Studies in the Arid Zone – Part 4. Chenopod Shrublands. Division of Land Resources Management, CSIRO, Melbourne.
- Kennedy, J. P. (1979). Merino Sheep Production in Arid Zones. Proceedings of the 1979 Annual Conference, Australian Institute of Agricultural Science, Sydney: 51-57.
- Morton, S. R. and Martin, A. A. (1979). Feeding ecology of the barn owl, *Tyto alba*, in Arid Southern Australia. Australian Wildlife Research **6**: 191-294.
- Pilgrim, D. H., Cordery, I. and Doran, D. G. (1979). Assessment of runoff characteristics in arid western New South Wales, Australia. The hydrology of areas of low precipitation, Proceedings of the Canberra Symposium **128**: 141-150.
- Raison, J. K., Chapman, E. A., Wright, L. C. and Jacobs, S. W. L. (1979). Membrane lipid transitions: their correlation with the climatic distribution of plants. Lyons, J. M., Graham, D. and Raison, J. K. [Eds]. Low Temperature Stress in Crop Plants –the Role of the Membrane, Academic Press, New York: 177-186.
- Russell, E. M. (1979). The size and composition of groups in the red kangaroo, *Macropus rufus*. Australian Wildlife Research **6**: 237-244.
- Watts, J. E., Murray, M. D. and Graham, N. P. H. (1979). The blowfly strike problem of sheep in New South Wales. Australian Veterinary Journal **55**: 325-334.
- Emmerick, J. (1979). Plant pattern analysis and radial distribution functions. Unpublished PhD thesis. University of N.S.W., Sydney.

1980

- Bald, M., Ballinger, J. A. and Hassall, D. N. H. (1980). Performance monitoring of passive solar demonstration houses. Proceedings of the Australian and New Zealand Architectural Science Association Conference.
- Ballinger, J. A. (1980). A thermal performance report on the Solarch Experimental House at Fowlers Gap, N.S.W. Proceedings of the Australian and New Zealand Architectural Science Association Conference.
- Ballinger, J.A. (1980). The Solarch Experimental House Mark 1. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 5.
- Crozier, R. H. (1980). Genetical structure of social insect populations. Dahlem Workshop Proceedings, Verlag: 129-146.
- Doran, D. G., Emmi, A. P. and Tilley, J. H. (1980). A hydrological data network for arid zone research: An approach by the University of New South Wales at Fowlers Gap. Australian Hydrographic Workshop, Melbourne.
- Morton, S. R. (1980). Ecological correlates of caudal fat storage in small mammals. Australian Mammalogy **3**: 81-86.
- Morton, S. R. (1980). Field and laboratory studies of water metabolism in *Sminthopsis crassicaudata* (Marsupialia: Dasyuridae). Australian Journal of Zoology **28**: 213-227.
- Skadhauge, E. and Dawson, T. J. (1980). In vitro studies of sodium transport across the lower intestine of a desert parrot. American Journal of Physiology **239**: 285-290.
- Skadhauge, E. and Dawson, T. J. (1980). Excretion of several ions and water in a xerophilic parrot. Comparative Biochemistry and Physiology **65**(A): 325-330.
- Thomas, F. A. and Webster, M. E. D. (1980). Changes in cerebrospinal fluid Na^+ and Ca^{++} during mild heat stress with and without water deprivation. Proceedings of the Australian Physiological and Pharmacological Society **11**: 158.

- Thomas, F. A. and Webster, M. E. D. (1980). Temperature regulation plasma and cerebrospinal fluid NA⁺ balances during dehydration and subsequent rehydration in sheep. *Proceedings of the Australian Physiological and Pharmacological Society* **11**: 3.
- Westoby, M. (1980). Elements of a theory of vegetation dynamics in arid rangelands. *Israel Journal of Botany* **28**: 169-194.
- Hazelton, P. A. (1980). The morphology and genesis of scald soil surfaces in an arid environment. Unpublished PhD thesis. University of N.S.W., Sydney.
- Reynolds, K. M. (1980) Aspects of the biology of the freshwater crayfish, *Cherax destructor*, in farm dams in far-Western N.S.W. Unpublished MSc. thesis. University of N.S.W., Sydney.
- Stewart, L. (1980). Vegetation and soil response to grazing herbivores in a semi-arid rangeland. Unpublished thesis. University of N.S.W., Sydney.
- Udofia, E. W. A. (1980). Hydrogeology of Devonian Sandstone, Fowlers Gap Arid Zone Research Station, Broken Hill. Unpublished M.App.Sc. thesis. University of N.S.W., Sydney.
- White, A. W. (1980). Insulin and insulin-like hormones in kangaroos. Unpublished PhD thesis. University of N.S.W., Sydney.

1981

- Akpokodje, E. G. (1981). The mineralogy and physico-chemical properties of some arid zone soils formed on low grade metamorphic rocks. *Proceedings of the International Conference of Aridic Soils, Israel*.
- Ballinger, J. A. (1981). Design for sun and climate. Bradford Insulation Information Booklet.
- Beavis, F. C. (1981). Engineering aspects of the weathering of dolomite under arid conditions. *Journal of Geological Society of Australia* **28**: 191-204.
- Bell, F. C. and Vorst, P. C. (1981). Geomorphic parameters of representative basins and their hydrologic significance. Technical Paper No. 58. Department of National Development and Energy, Australian Water Resources Council, Canberra.
- Burton, D. L., Morris, R. J. H., Thomas, F. A. and Webster, M. E. D. (1981). Effects of increased extra cellular (NA⁺) and osmolarity on body temperature and regulation. *Proceedings of the Australian Physiological and Pharmacological Society* **12**: 135.
- Coulson, G. M. and Croft, D. B. (1981). Flehmen in kangaroos. *Australian Mammal* **4**: 139-140.
- Croft, D. B. (1981). Behaviour of red kangaroos, *Macropus rufus* (Desmarest, 1822) in Northwestern New South Wales, Australia. *Australian Mammalogy* **4**: 5-58.
- Croft, D. B. (1981). Social behaviour of the euro, *Macropus robustus* (Gould), in the Australian arid zone. *Australian Wildlife Research* **8**: 13-49.
- Crozier, R. H. (1981). Genetic aspects of ant evolution. Atchley, W.R. and Woodruff, D. C. [Eds]. *Essays in evolution and speciation in honor of M.J.D. White*. Cambridge University Press: 356-370.
- Davidson, D. W. and Morton, S. R. (1981). Competition for dispersal in ant-dispersed plants. *Science* **213**: 1259-1261.
- Davidson, D. W. and Morton, S. R. (1981). Myrmecochory in some plants (F. Chenopodiaceae) of the Australian arid zone. *Oecologia* **50**: 357-366.
- Gray, S. J. and Kennedy, J. P. (1981). Gastro-intestinal parasites in sheep in an arid environment. *Australian Journal Experimental Agriculture and Animal Husbandry* **21**: 179-182.
- Greenaway, P. (1981). Temperature limits to trailing activity in the Australian arid-zone meat ant *Iridomyrmex purpureus* form *viridiaeneus*. *Australian Journal of Zoology* **29**: 621-630.
- Kennedy, J. P. (1981). Practical application of knowledge of factors influencing wool growth. 1981 Sheep and Wool Refresher Course, Queensland Department of Primary Industries Conference and Workshop Series: 44-46.
- Westoby, M. (1981). How diversified seed germination behaviour is selected. *American Naturalist* **118**: 882-885.
- Sharma, M. L. (1981). Groundwater potential of Nundooka Sandstone Fowlers Gap Arid Zone Research Station, Broken Hill (N.S.W.). Unpublished M.App.Sc. thesis. University of N.S.W., Sydney.

Upton, G. (1981). Morphology and genesis of crabhole micro-relief at Fowlers Gap. Unpublished BSc (Hons) thesis. University of N.S.W., Sydney.

1982

- Abrahams, A. D. and Miller, A. J. (1982). An empirical approach to the frequency distribution of exterior link lengths in natural channel networks. *Perspectives in Geomorphology* **2**: 59-83.
- Abrahams, A. D. and Miller, A. J. (1982). The mixed gamma model for channel link lengths. *Water Resources Research* **18**: 1126-1136.
- Ballinger, J. A. (1982). A sunny future with passive solar design. Solarch, University of New South Wales.
- Beavis, F. C., Roberts, F. I. and Minskaya, L. (1982). Engineering aspects of weathering of low grade metapelites in an arid climatic zone. *Quarterly Journal of Engineering Geology and Hydrogeology* **15**(1): 29-45.
- Chartres, C. J. (1982). Quaternary dust mantle soils in the Barrier Range, N.S.W. Wasson, R. J. [Eds]. *Quaternary Dust Mantles of China, New Zealand and Australia*. ANU Department of Biogeography and Geomorphology, Canberra: 153-160.
- Chartres, C. J. (1982). Pedogenesis of desert loam soils in The Barrier Range, north western N.S.W. I Soil Parent Materials. *Australian Journal of Soil Research* **20**: 269-281.
- Crozier, R. H. (1982). On insects and insects: twists and turns in our understanding of the evolution of sociality. Breed, M. D., Michener, C. D. and Evans, H. E. [Eds]. *The biology of social insects*. Westview Press, Boulder: 4-10.
- Davison, E. A. (1982). Seed utilizations by harvester ants. Buckley, R.D. [Eds]. *Ant-plant interactions in Australia*. W. Junk, The Hague: 1-10.
- Freeland, J., Crozier, R. H. and Marc, J. (1982). On the occurrence of arolia in ant feet. *Journal of the Australian Entomology Society* **21**: 257-262.
- Kennedy, J. P., Auldist, I. H., Gray, S. J. and Reynolds, J. A. (1982). Influence of the timing of shearing and joining on productivity of sheep in the arid zone of Western New South Wales. *Proceedings of Australian Society of Animal Production* **14**: 507-510.
- McDermott, G. E. and Pilgrim, D. H. (1982). Design flood estimation for small catchments in New South Wales. Department of National Development and Energy, *Australian Water Resources* **73**: 233.
- McDermott, G. E. and Pilgrim, D. H. (1982). A design flood method for arid Western New South Wales based on bankfull estimates. *Hydrology and Water Resources Symposium, Institute of Engineers Australia* **82/83**: 69-74.
- Morton, S. R. (1982). Granivory in the Australian arid zone: diversity of harvester ants and structure of their communities. Barker, W. R. and Greenslade, P. J. M. [Eds]. *Evolution of the Flora and Fauna of Arid Australia*. Peacock Publications, Frewville: 257-262.
- Morton, S. R. and Alexander, F. (1982). Geographic variation in the external morphology of *Sminthopsis crassicaudata* (Dasyuridae, Marsupialia). Archer, M. [Eds]. *Carnivorous Marsupials*, Royal Zoological Society of New South Wales, Sydney: 695-698.
- Pamilo, P. and Crozier, R. H. (1982). Measuring relatedness in natural populations: Methodology. *Theoretical Population Biology* **21**: 171-193.
- Pilgram, D. H. (1982). Assessment of derived rural and urban runoff coefficients. *Civil engineering transactions, the Institution of Engineers, Australia* **24**: 235-241.
- Read, D. G. (1982). Observations on the movements of two arid zone planigales (Dasyuridae, Marsupialia). Archer, M. [Eds]. *Carnivorous Marsupials*. Royal Zoological Society of New South Wales, Sydney: 227-231.
- Westoby, M., Cousins, J. M. and Grice, A. C. (1982). Rate of decline of some soil seed populations during drought in western New South Wales. Buckley, R. C. [Eds]. *Ant-plant interactions in Australia*, Dr W. Funk Publishers, The Hague.
- Akpokodje, E. G. (1982). The engineering geology of arid zone soils and their stabilization. Unpublished PhD thesis. University of N.S.W, Sydney.
- Davison, E. A. (1982). Ecological studies of two species of harvester ants. Unpublished PhD thesis. University of New England.

- Hasick, D. J. (1982). Energy exchanges at natural surfaces. Unpublished thesis. Macquarie University, Sydney.
- McDermott, G. E. (1982). Design flood estimation for small catchments in New South Wales. Unpublished M.E. thesis. University of N.S.W, Sydney.
- McDonald, J. (1982). On the write track. Unpublished B.A. (Hons) thesis. Department of Anthropology, University of Sydney, Sydney.
- Needham, A. D. (1982). The role of the cardiovascular system of macropodid marsupials in thermoregulation. Unpublished PhD thesis. University of N.S.W, Sydney.

1983

- Anderson, J. M. E., Shipp, E. and Anderson, P. J. (1983). Blowfly populations and strike incidence in the arid zone of N.S.W. Sheep Blowfly and Flystrike in Sheep. Second National Symposium of the Department of Agriculture N.S.W.: 91-96.
- Anderson, J. M. E., Shipp, E. and Anderson, P. J. (1983). Preferred habitats of blowflies in the arid zone of N.S.W. Sheep Blowfly and Flystrike in Sheep. Second National Symposium of the Department of Agriculture N.S.W.: 133-136.
- Anderson, J. M. E., Shipp, E. and Anderson, P. J. (1983). Blowfly populations and carrion in the arid zone of N.S.W. Sheep Blowfly and Flystrike in Sheep. Second National Symposium of the Department of Agriculture N.S.W.: 138-141.
- Chartres, C. J. (1983). Pedogenesis of desert loam soils in The Barrier Range, north western N.S.W. II Weathering and Soil Formation. Australian Journal of Soil Research **21**: 1-13.
- Chartres, C. J. (1983). The micromorphology of desert loam soil and implications for Quaternary Research in western N.S.W., Australia. Bullock, P. and Murphy, C. [Eds]. Soil Micromorphology. Proceedings of the International Working Meeting on Soil Micromorphology, A.B. Academic Publishers, London: 273-279.
- Clegg, J. (1983). Correlations and associations at Sturts Meadows. Smith, M. [Eds]. Archaeology at ANZAAS 1983. WA Museum: 214-235.
- Cordery, I., Pilgrim, D. H. and Doran, D. G. (1983). Some hydrological characteristics of arid western New South Wales. Hydrology and Water Resources Symposium, Institution of Engineers, Australia: 287-292.
- Croft, D. B. (1983). Inter- and intraspecific conflict between arid zone kangaroos at watering points. Australian Wildlife Research.
- Crozier, R. H. (1983). Genetics and insect systematics: retrospect and prospect. Highley, E. and Taylor, R. W. [Eds]. Australian systematic entomology: a bicentenary perspective. CSIRO: 80-92.
- Dawson, T. J. and Herd, R. M. (1983). Digestion in the emu: Low energy and nitrogen requirements of the large ratite bird. Comparative Biochemistry and Physiology **75(A)**: 41-45.
- Dawson, T. J., Herd, R. M. and Skadhauge, E. (1983). Water turnover and body water distribution during dehydration in a large arid-zone birds the Emu. Journal of Comparative Physiology **153**: 235-240.
- Dobbie, W. R. and Kennedy, J. P. (1983). Observations on covert flystrike in wethers in Far Western New South Wales. Second National Symposium, Blowflies and Flystrike in Sheep, Department of Agriculture, Sydney: 130-132.
- Kennedy, J. P., Gray, S. J. and Reynolds, J. A. (1983) Influence of age of Mulesing on survival of lambs in Far Western N.S.W. Second National Symposium, Blowflies and Flystrike in Sheep, Department of Agriculture, Sydney: 26-29.
- McDermott, G. E. and Pilgrim, D. H. (1983). A design flood method for arid western New South Wales based on bankfull estimates. Civil engineering transactions, the Institution of Engineers, Australia **25**: 114-120.
- McDonald, J. (1983). The identification of species in a Panaramitee style engraving site. Australian Archaeology **18**: 236-272.
- Morton, S. R. and Davies, P. H. (1983). Food of the zebra finch (*Poephila guttata*) and an examination of granivory in birds of the Australian arid zone. Australian Journal of Ecology **8**: 235-243.

- Rice, B. and Westoby, M. (1983). Plant species richness at the 0.1 hectare scale in Australian vegetation compared to other continents. *Vegetation* **32**: 129-140.
- Upton, G. (1983). Genesis of crabhole microrelief at Fowlers Gap Western New South Wales. *Catena* **10**(4): 383-392.
- Hucker, K. (1983). Soil salinity/landform relationships at Fowlers Gap. Unpublished BSc (Hon) thesis. University of N.S.W, Sydney.
- Read, R. M. (1983). A study of the distribution and regeneration of *Eucalyptus gillii*, Maiden, (Curly Mallee). Unpublished BSc (Hon) thesis. University of N.S.W, Sydney.

1984

- Beavis, F. C. & Beavis, J. C. (1984). Geology, engineering geology and hydrogeology of Fowlers Gap Station. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 7.
- Crozier, R. H., Pamilo, P. and Crozier, Y. C. (1984). Relatedness and microgeographic genetic variation in *Rhytidoponera mayri*, an Australian arid zone ant. *Behavioural Ecology and Sociobiology* **15**: 143-150.
- Davidson, D. W. and Morton, S. R. (1984). Dispersal adaptations of some Acacia species in the Australian arid zone. *Ecology* **65**.
- Dawson, T. J., Read, D. G., Russell, E. M. and Herd, R. M. (1984). Seasonal variation in the daily activity patterns, water relations and diet of emus. *Emu* **84**: 93-102.
- Dragovich, D. (1984). Minimum age for desert varnish in the Broken Hill Area, N.S.W.: A preliminary estimate. *Search* **15**(3-4): 113-115.
- Dragovich, D. (1984). Varnished engravings and rock weathering near Broken Hill, Western New South Wales. *Australian Archaeology* **18**: 55-62.
- Herd, R. M. and Dawson, T. J. (1984). Fibre digestion in the emu (*Dromaius novaehollandiae*) a large bird with a simple gut and high rates of passage. *Physiological Zoology* **57**: 70-84.
- Read, D. G. (1984). Movements and home ranges of three sympatric dasyurids, *Sminthopsis crassicaudata*, *Planigale gilesi*, and *P. tenuirostris* (Marsupialia), in semi-arid Western New South Wales. *Australian Wildlife Research* **11**: 223-234.
- Triggs, B. (1984). Mammal tracks and science, a fieldguide for South-eastern Australia. Oxford University Press, Melbourne: 34.
- Hannah, R. (1984). Research and related activities 1966-1983. Fowlers Gap Arid Zone Research Station, University of N.S.W. Research Series 7.

1985

- Morton, S. R. (1985). Granivory in the Australian arid zone: an experimental comparison with North and South American deserts. *Ecology* **66**.

1990

- Clancy, T. F. and D. B. Croft (1990). Home range of the common wallaroo, *Macropus robustus erubescens*, in far western New South Wales. *Australian Wildlife Research* **17**(6): 659-673.
- McCarron, H. C. K. (1990). Environmental physiology of the eastern grey kangaroo (*Macropus giganteus* Shaw). Unpublished PhD thesis. School of Biological Science, University of N.S.W, Sydney. 267 pp.

1991

- Belovsky, G. E., O. J. Schmitz, J. B. Slade and T. J. Dawson (1991). Effects of spines and thorns on Australian arid zone herbivores of different body masses. *Oecologia* **88**(4): 521-528.
- Clancy, T. F. and D. B. Croft (1991). Differences in habitat usage and grouping behaviour between macropods and eutherian herbivores. *Journal of Mammalogy* **72**: 441-449.
- Croft, D. B. (1991). Australian People and Animals in Today's Dreaming: The role of comparative psychology in the management of natural resources. New York, Praeger.
- Croft, D. B. (1991). Home range of the euro, *Macropus robustus erubescens*. *Journal of Arid Environments* **20**: 99-111.
- Croft, D. B. (1991). Home range of the red kangaroo, *Macropus rufus*. *Journal of Arid Environments* **20**: 93-98.

- Croft, D. B. and F. Snaith (1991). Boxing in red kangaroos, *Macropus rufus*: Aggression or play? *International Journal of Comparative Psychology* **4**: 221-236.
- Dawson, T. J., S. K. Maloney and E. Skadhauge (1991). The role of the kidney in electrolyte and nitrogen excretion in a large flightless bird, the emu, during different osmotic regimes, including dehydration and nesting. *Journal of Comparative Physiology B Biochemical Systemic and Environmental Physiology* **161**(2): 165-171.
- Lawrie, J. W. (1991). Soils and erosion. In *Lands of the north-west corner of NSW*. **12**, P. I. Milthorpe. Sydney, Soil Conservation Service of NSW.
- Skadhauge, E., S. K. Maloney and T. J. Dawson (1991). Osmotic adaptation of the emu (*Dromaius novaehollandiae*). *Journal of Comparative Physiology B Biochemical Systemic and Environmental Physiology* **161**(2): 173-178.
- Graeme, D. (1991). The effect of large trees growing within arid zone, ephemeral streams on flow characteristics. Unpublished BSc. (Hons) thesis. School of Geography and Environmental Science, Monash University, Melbourne. 131 pp.
- O'Donovan, P. (1991). Relationship between food density and dispersion, foraging behaviour and group size in euros (*Macropus robustus erubescens*) and red kangaroos (*Macropus rufus*). Unpublished thesis. School of Biological Science, University of N.S.W., Sydney. 40 pp.
- Packwood, R. K. (1991). Anti-Predator behaviour of the red kangaroo (*Macropus rufus*). Unpublished BSc (Hons) thesis. School of Biological Science, University of N.S.W., Sydney. 73 pp.

1992

- Clancy, T. F. and D. B. Croft (1992). Population dynamics of the common wallaroo (*Macropus robustus erubescens*) in arid New South Wales. *Wildlife Research* **19**(1): 1-16.
- McLeod, L. J. and J. M. E. Anderson (1992). Distribution patterns, dispersal, seasonal abundance and reproduction of *Chrysomya rufifacies* (Macquart) (Diptera: Calliphoridae) in the arid zone of New South Wales. *Proceedings of the Linnean Society of New South Wales* **113**(1-4): 109-120.
- McLeod, L. J. and J. M. E. Anderson (1992). Distribution patterns, dispersal, seasonal abundance and reproduction of *Chrysomya rufifacies* (Macquart) (Diptera: Calliphoridae) in the arid zone of New South Wales. *Proceedings of the Linnean Society of New South Wales* **113**(1-4): 109-120.
- Marlow, N. J. (1992). The ecology of the introduced Red fox (*Vulpes vulpes*) in the arid zone. Unpublished PhD thesis. School of Biological Science, University of N.S.W., Sydney. 177 pp.

1993

- Austin, A. D., R. A. Wharton and P. C. Dangerfield (1993). Revision of the endemic Australian subfamily Trachypetinae Schulz s. l. (including Cercobarconinae Tobias) (Hymenoptera: Braconidae). *Systematic Entomology* **18**(2): 97-119.
- Maloney, S. K. and T. J. Dawson (1993). Sexual dimorphism in basal metabolism and body temperature of a large bird, the emu. *Condor* **95**(4): 1034-1037.
- Shoshany, M. (1993). Roughness reflectance relationship of bare desert terrain - an empirical study. *Remote Sensing of Environment* **45**(1): 15-27.
- Smith, J. (1993). Anatomy of the vasculature in the head of the emu, with reference to thermoregulation. Unpublished BSc. (Hons) thesis. School of Biological Science, University of N.S.W, Sydney. 74 pp.
- Watson, D. M. and T. J. Dawson (1993). The effects of age, sex, reproductive status and temporal factors on the time-use of free-ranging red kangaroos (*Macropus rufus*) in western New South Wales. *Wildlife Research* **20**(6): 785-801.
- Brown, S. (1993). Predisposing factors of arroyo morphogenesis, in western New South Wales, Australia. Unpublished BSc. (Hons) thesis. School of Geography and Environmental Science, Monash University, Melbourne. 101 pp.
- Jaensch, R. (1993). Features, processes and natural reclamation of scald surfaces at Fowlers Gap, western New South Wales. Unpublished BSc (Hons) thesis. School of Geography and Environmental Science, Monash University, Melbourne. 100 pp.
- Maloney, S. K. (1993). Thermal biology of the emu. Unpublished PhD thesis. School of Biological Science, University of N.S.W., Sydney. 207 pp.

Witte, I. (1993). The temporal patterning of the behaviour of red kangaroos (*Macropus rufus*). Unpublished BSc (Hons) thesis. School of Biological Science, University of N.S.W., Sydney. 52 pp.

1994

- Dawson, T. J. and B. A. Ellis (1994). Did dietary competition play a role in the extinction of small macropodids in western New South Wales with the coming of European settlement? Lunney, D., Hand, S., Reed, P. & Butcher, D. [Eds]. Future of the fauna of western New South Wales. Royal Zoological Society of New South Wales, Mosman.
- Dawson, T. J. and B. A. Ellis (1994). Diets of mammalian herbivores in Australian arid shrublands: seasonal effects on overlap between red kangaroos, sheep and rabbits and on dietary niche breadths and electivities. *Journal Of Arid Environments* **26**(3): 257-271.
- Edwards, G. P., D. B. Croft and T. J. Dawson (1994). Observations of differential sex/age class mobility in red kangaroos (*Macropus rufus*). *Journal Of Arid Environments* **27**(2): 169-177.
- Fanning, P. C. (1994). Long-term contemporary erosion rates in an arid rangelands environment in western New South Wales, Australia. *Journal Of Arid Environments* **28**: 173-187.
- Horak, M. (1994). A review of *Cadra Walker* in Australia: five new native species and the two introduced pest species (Lepidoptera: Pyralidae: Phycitinae). *Journal Of The Australian Entomological Society* **33**(3): 245-262.
- Maloney, S. K. and T. J. Dawson (1994). Ventilatory accommodation of oxygen demand and respiratory water loss in a large bird, the emu (*Dromaius novaehollandiae*), and a re-examination of ventilatory allometry for birds. *Journal Of Comparative Physiology B Biochemical Systemic And Environmental Physiology* **164**(6): 473-481.
- Maloney, S. K. and T. J. Dawson (1994). Thermoregulation in a large bird, the emu (*Dromaius novaehollandiae*). *Journal Of Comparative Physiology B Biochemical Systemic And Environmental Physiology* **164**(6): 464-472.
- Mayo, G. (1994). Black-and-white form of the white-winged fairy-wren *Malurus leucopterus* in western New South Wales. *Australian Bird Watcher* **15**(7): 321-322.
- Birzer, U. (1994). Home range and habitat preferences of female euros (*Macropus robustus erubescens*) in response to variable environmental conditions. Unpublished Diplomarbeit thesis. Zoological Institute, Friedrich Alexander University, Erlangen. 113 pp.

1995

- Dawson, T. J. (1995). Kangaroos: biology of the largest marsupials. UNSW Press, Sydney.
- Dawson, T. J. (1995). Red kangaroos, the kings of cool. *Natural History* **104**: 39-45.
- Edwards, G. P., T. J. Dawson and D. B. Croft (1995). The dietary overlap between red kangaroos (*Macropus rufus*) and sheep (*Ovis aries*) in the arid rangelands of Australia. *Australian Journal Of Ecology* **20**(2): 324-334.
- Hewson, R. D. and G. R. Taylor (1995). AIRSAR imagery as an ancillary data set for geological mapping at Fowlers Gap, western New South Wales. International workshop on radar image processing and applications. University of NSW, UNSW. p. 54-57.
- Ibrahim, A. B. and I. Cordery (1995). Estimation of recharge and runoff volumes from ungauged catchments in eastern Australia. *Hydrological Sciences Journal* **40**(4): 499-515.
- Maloney, S. K. and T. J. Dawson (1995). The heat load from solar radiation on a large, diurnally active bird, the emu (*Dromaius novaehollandiae*). *Journal Of Thermal Biology* **20**(5): 381-387.
- Neef, G., R. S. Bottrill and A. Ritchie (1995). Phanerozoic stratigraphy and structure of the northern barrier ranges, western New South Wales. *Australian Journal of Earth Sciences* **42**(6): 557-570.
- Ashworth, D. L. (1995). Female reproductive success and maternal investment of Euros (*Macropus robustus erubescens*) in the arid zone. Unpublished PhD thesis. School of Biological Science, University of N.S.W., Sydney. 247 pp.
- Moss, G. L. (1995). Home range, grouping patterns and the mating system of the Red Kangaroo (*Macropus rufus*) in the arid zone. Unpublished thesis. School of Biological Science, University of N.S.W., Sydney. 268 pp.

Norton, M. A. (1995). Feeding biology of red kangaroos (*Macropus rufus*): a comparison of juveniles and adult females. Unpublished BSc. (Hons) thesis. School of Biological Science, University of N.S.W., Sydney. 75 pp.

Raad, M. C. (1995). Muscle structure/function in relation to hopping in the red kangaroo (*Macropus rufus*). Unpublished BSc. (Hons) thesis. School of Biological Science, University of N.S.W., Sydney. 48 pp.

1996

Ashworth, D. L. (1996). Strategies of maternal investment in marsupials. In Comparison of Marsupial and Placental Behaviour, D. B. Croft and U. Ganslosser, pp. 226-251. Fuerth, Filander Verlag.

Croft, D. B. (1996). Locomotion, foraging competition and group size: a comparison of kangaroos and sheep. In Comparison of marsupial and placental behaviour. D. B. Croft and U. Ganslosser. Furth, Filander Verlag.

Bilton, A. D. (1996). Feeding ecology of red kangaroos (*Macropus rufus*): a comparison of juveniles and adults. Unpublished BSc. (Hons) thesis. School of Biological Science, University of N.S.W., Sydney. 55 pp.

Bollinger, E. (1996). The capacity for work of the red kangaroo (*Macropus rufus*) heart: Insights into the energetic capabilities of kangaroos. Unpublished BSc (Hons) thesis. School of Biological Science, University of N.S.W., Sydney. 35 pp.

Dawson, T. J. and B. A. Ellis (1996). Diets of mammalian herbivores in Australian arid, hilly shrublands: seasonal effects on overlap between euros (hill kangaroos), sheep and feral goats, and on dietary niche breadths and electivities. *Journal Of Arid Environments* **34**(4): 491-506.

Edwards, G. P., D. B. Croft and T. J. Dawson (1996). Competition between red kangaroos (*Macropus rufus*) and sheep (*Ovis aries*) in the arid rangelands of Australia. *Australian Journal Of Ecology* **21**(2): 165-172.

Martin, B. (1996). Habitat use of euros (*Macropus robustus erubescens*) and other herbivores in northwestern New South Wales. Unpublished Diploma thesis. Faculty of Biology, University of Tuebingen, Tuebingen. 108 pp.

McLeod, S. R. (1996). The foraging behaviour of the arid zone herbivores the red kangaroo (*Macropus rufus*) and sheep (*Ovis aries*) and its role in their competitive interaction, population dynamics and life-history strategies. Unpublished PhD thesis. School of Biological Science, University of NSW, Sydney. 235 pp.

Munn, A. J. (1996). Thermal biology of red kangaroos (*Macropus rufus* Desmarest) and the eastern grey kangaroo (*Macropus giganteus* Shaw): responses to high ambient temperatures. Unpublished BSc. (Hons) thesis. School of Biological Science, University of N.S.W, Sydney. 76 pp.

Skadhauge, E., T. J. Dawson, R. Prys-Jones and C. N. Warui (1996). Role of kidney and gut in ratite osmoregulation. In *Improving Our Understanding of Ratites in a Farming Environment*, D. C. Deeming, pp. 115-122. Manchester, University of Manchester.

1997

Crozier, R. H., B. P. Oldroyd, W. T. Tay, B. E. Kaufmann, R. N. Johnson, M. E. Carew and K. M. Jennings (1997). Molecular advances in understanding social insect population structure. *Electrophoresis* **18**: 1672-1675.

Dawson, T. J. (1997). Desert kangaroos. In *Windows on Meteorology: Australian Perspectives.*, E. K. Webb, pp. 75-80. Melbourne, CSIRO Publishing.

Dunkerley, D. L. (1997). Banded vegetation: development under uniform rainfall from a simple cellular automaton model. *Plant Ecology* **129**: 103-111.

Dunkerley, D. L. (1997). Banded vegetation: survival under drought and grazing pressure based on a simple automaton model. *Journal of Arid Environments* **35**: 419-428.

Gibson, D. L. (1997). Recent Tectonics and landscape evolution in the Broken Hill region. *AGSO Research Newsletter* **26**: 17-20.

Hewson, R. D., L. B. Whitburn and G. R. Taylor (1997). Application of TIMS imagery and airborne CO₂ laser spectroscopy for geological and geomorphological investigations of an arid environment, western

- NSW, Australia. Twelfth International Conference Applied Geologic Remote Sensing. Denver, ERIM. p. 373-384.
- McLeod, S. R. (1997). Is the concept of carrying capacity useful in variable environments? *Oikos* **79**: 529-542.
- Nazemosadat, M. J. and I. Cordery (1997). The influence of geopotential heights on New South Wales rainfall. *Meteorology & Atmospheric Physics*. **63**(3-4): 179-193.
- Tay, W. T., J. M. Cook, D. J. Rowe and R. H. Crozier (1997). Migration between nests in the Australian arid-zone ant *Rhytidoponera* sp. 12 revealed by DGGE analyses of mitochondrial DNA. *Molecular Ecology* **6**(5): 403-411.
- Brown, K. J. (1997). An evaluation of the controls on hillslope sediment transport in a small Australian arid zone catchment: a case study from Homestead Creek catchment, western New South Wales, Australia. Unpublished PhD thesis. Department of Geography and Environmental Science, Monash University, Melbourne. 370 pp.
- Fisher, A. G. (1997). An investigation of silcrete, ferricrete and the Telephone Creek Formation at Fowlers Gap Arid Zone Research Station, Western New South Wales. Unpublished BSc (Hons) thesis. School of Geography, University of NSW, Sydney. pp.

1998

- Crozier, R. H., V. S. Fraser, B. E. Kaufmann, M. E. Carew, B. P. Oldroyd and W. T. Tay (1998). Dissection of colony and caste structure in ants. XIII Congress of IUSSI. , Inc., Adelaide, Australia. p. 120.
- Dunkerley, D. L. (1998). The effects of plant litter on sediment detachment and transport in the arid zone: rainfall simulation experiments at Fowlers Gap, NSW. Eighth Biennial Conference, Australian and New Zealand Geomorphology Group, Goolwa, SA. p. 18.
- Dunkerley, D. L. (1998). The effects of plant litter on sediment detachment and transport in the arid zone: rainfall simulation experiments at Fowlers Gap, NSW. Eighth Biennial Conference, Australian and New Zealand Geomorphology Group, Goolwa, South Australia. p. 18.
- Kram, R. and T. J. Dawson (1998). Energetics and biomechanics of locomotion by red kangaroos (*Macropus rufus*). *Comparative Biochemistry and Physiology* **B120**: 41-49.
- Maloney, S. K. and T. J. Dawson (1998). Changes in patterns of heat loss at high ambient temperature caused by water deprivation in a large bird, the emu. *Physiological Zoology* **71**: 712-719.
- Zhou, Q., M. Robson and P. Pilesjo (1998). On the ground estimation of vegetation cover in Australian rangelands. *International Journal of Remote Sensing* **19**(9): 1815-1820.
- Hewson, R. D. (1998). An investigation of mineralogical and textural effects on thermal infrared energy interactions with an arid environment. Unpublished PhD thesis. School of Applied Geology, University of NSW, Sydney. pp.
- Naujeck, A. (1998). Food selection by the common wallaroo (*Macropus robustus erubescens*) under consideration of different habitats. Unpublished Diploma thesis. Institute of Zoology, University of Hamburg, Hamburg. 93 pp.
- Silva, L. M. (1998). Nest site spacing and selection, diet and parental care of the wedge-tailed eagle (*Aquila audax*) at Fowlers Gap. Unpublished BSc (Hons) thesis. School of Biological Science, University of NSW, Sydney. 53 pp.
- Straetz, M. (1998). Feeding ecology and behaviour of reintroduced and free-ranging red kangaroos (*Macropus rufus*) in the Australian arid zone: A pilot study. Unpublished Diploma thesis. Institute for Zoology, Friedrich Alexander University, Erlangen. 121 pp.
- Tay, W. T. (1998). Worker migration, mating behaviour and sociogenetic organisation of *Rhytidoponera* sp. 12 (Formicidae: Ponerinae). Unpublished PhD thesis. La Trobe University, Melbourne. 89 pp.

1999

- Collins, L. (1999). Factors influencing chick survival in the wedge-tailed eagle, *Aquila audax*. Unpublished thesis. School of Biological Science, University of N.S.W., Sydney. 70 pp.
- Cordery, I. (1999). Long range forecasting of low rainfall. *International Journal of Climatology* **19**(5): 463-470.

- Dunkerley, D. L. (1999). Banded shrublands of arid western N.S.W.: responses to interannual rainfall variability. *Ecological Modelling* **121**: 127-138.
- Dunkerley, D. L. (1999). Cellular automata: the exploration of spatial phenomena in ecology. In *Machine learning methods for ecological applications.*, F. A.H., pp. 145-183. Boston, Kluwer Academic.
- Dunkerley, D. L. and K. J. Brown (1999). Banded vegetation near Broken Hill, Australia: significance of soil surface roughness and soil physical properties. *Catena* **37**: 75-88.
- Dunkerley, D. L. and K. J. Brown (1999). Flow behaviour, suspended sediment transport and transmission losses in a small (sub bankfull) flow event in an Australian desert stream. *Hydrological Processes* **13**: 1577-1588.
- Dunkerley, D. L. and T. L. Booth (1999). Plant canopy interception and its significance in a banded landscape, arid western New South Wales, Australia. *Water Resources Research* **35**(5): 1581-1586.
- Fanning, P. C. (1999). Recent landscape history in arid western New South Wales, Australia: a model for regional change. *Geomorphology* **29**(3/4): 191-209.
- Geddes, N. and D. L. Dunkerley (1999). The influence of organic litter on the erosive effects of raindrops and of gravity drops released from desert shrubs. *Catena* **36**: 303-313.
- Lewis, M. M. (1999). Discriminating arid vegetation composition with multispectral and high spectral resolution imagery. Unpublished PhD thesis. School of Geography, University of NSW, Sydney. pp.
- Lewis, M. M. (1999). Numeric classification as an aid to spectral mapping of vegetation communities. *Plant Ecology* **136**: 133-149.
- Macdonald, B. C. T. and M. D. Melville (1999). The impact of contour furrowing on chenopod patterned ground at Fowlers Gap, western New South Wales. *Journal of Arid Environments* **41**(3): 345-357.
- Macdonald, B. C. T., M. D. Melville and I. White (1999). The distribution of soluble cations within chenopod-patterned ground Western New South Wales, Australia. *Catena* **37**: 89-105.
- Macdonald, B.C.T. (1999). The problems of contour furrowing on patterned ground with dispersible soils: Fowlers Gap, Australia. Eldridge, D. & Freudenberger, D. [Eds]. *People and rangelands building the future: VIth International Rangeland Congress, Townsville.*
- Magarey, E. R. (1999). The effect of sheep grazing on lizard assemblages in the New South Wales arid zone. Unpublished BSc (Hons) thesis. School of Biological Science, University of NSW, Sydney. 54 pp.
- McTavish, K. J. (1999). Impact of environment, behaviour and diet on field water use by red (*Macropus rufus*) and eastern grey (*Macropus giganteus*) kangaroos in arid rangelands. Unpublished BSc. (Hons) thesis. School of Biological Science, University of N.S.W., Sydney. 100 pp.
- Moss, G. M. and D. B. Croft (1999). Body condition of the Red Kangaroo (*Macropus rufus*) in arid Australia: the effect of environmental condition, sex and reproductive activity. *Australian Journal of Ecology* **24**: 97-109.
- Wakelin-King, G. A. (1999). Banded mosaic ('tiger bush') and sheetflow plains: a regional mapping approach. *Australian Journal of Earth Sciences* **46**: 53-60.

2000

- Dunkerley, D. L. (2000). Assessing the influence of shrubs and their interspaces on enhancing infiltration in an arid Australian shrubland. *The Rangeland Journal* **22**(1): 58-71.
- Gibson, D. L. (2000). Post-early cretaceous landform evolution along the western margin of the Bancannia trough, western NSW. *The Rangeland Journal* **22**(1): 32-43.
- Hewson, R. D. and Taylor, G. R. (2000). An investigation of the geological and geomorphological features of Fowlers Gap using thermal infrared, radar and airborne geophysical remote sensing techniques. *The Rangeland Journal* **22**(1): 105-123.
- Lewis, M. (2000). Discrimination of arid vegetation composition with high resolution CASI imagery. *The Rangeland Journal* **22**(1): 141-167.
- Macdonald, B. C. T. (2000). University of New South Wales Fowlers Gap and Arid Zone Research Station- Nearly 50 years of Research. *The Rangeland Journal* **22**(1): 5-31.
- Macdonald, B. C. T. and Melville, M. D. (2000). A comparison of the soils from two areas of sorted step chenopod patterned ground, at Fowlers Gap Field Station, Western New South Wales. *The Rangeland Journal* **22**(1): 72-87.

2001

Buffenstein, R., McCarron, H. C. K. and Dawson, T. J. (2001). Erythrocyte osmotic fragility of red (*Macropus rufus*) and grey (*Macropus fuliginosus* and *Macropus giganteus*) kangaroos and free-ranging sheep of the arid regions of Australia. *Journal of Comparative Physiology B* 171(1): 41-47.

2003

Dunkerley, D. L. (2003). Organic litter: Dominance over stones as a source of interrill flow roughness on low-gradient desert slopes at Fowlers Gap, arid western NSW, Australia. *Earth Surface Processes and Landforms: The Journal of the British Geomorphological Research Group* 28(1): 15-29.

Hill, S.M., Roach, I.C.(2003) The regolith-landforms of Sandstone Paddock, Fowlers Gap, Western NSW. In *Advances in Regolith*, 193-200.

https://www.researchgate.net/profile/Ian_Roach/publication/237527376_The_regolithlandforms_of_Sandstone_Paddock_Fowlers_Gap_western_NSW/links/54d2982b0cf25017917f0123/The-regolith-landforms-of-Sandstone-Paddock-Fowlers-Gap-western-NSW.pdf

2004

Arzani, H., King, G. W. & Forster, B. (2004). Estimating rangeland cover and yield using digital data in the arid and semi-arid areas. *Proceedings of the World Engineers' Convention, Shanghai*: 209-222.

2005

Shiner, J., Holdaway, S., Allen, H. Fanning, P. (2005) Stone artefact assemblage variability in Late Holocene contexts in Western New South Wales. In *Lithics 'down under'; Australian perspective on lithic reduction, use and classification*. Archeopress, Oxford.

2006

Choi, C. Y. J. and Croft, D. (2006). The behavior of avian scavenger at Fowlers Gap in Australia. *Journal of Ornithology* 147(5): 148.

2007

Oke, A. M. C., Dunkerley, D. and Tapper, N. J. (2007). Willy-willies in the Australian landscape: sediment transport characteristics. *Journal of arid environments* 71(2): 216-228.

2008

Dunkerley, D. L. (2008). Identifying individual rain events from pluviograph records: a review with analysis of data from an Australian dryland site. *Hydrological Processes: An International Journal* 22(26): 5024-5036.

Dunkerley, D. L. (2008). Intra-storm evaporation as a component of canopy interception loss in dryland shrubs: observations from Fowlers Gap, Australia. *Hydrological Processes: An International Journal* 22(12): 1985-1995.

Lee, E. and Croft, D. B. (2008). The effects of an arid-zone road on vertebrates: what are the priorities for management. Lunney, D. & Mickle, W. [Eds]. *Too Close for Comfort: Contentious Issues in Human-Wildlife Encounters*: Royal Zoological Society of New South Wales, Mosman.

2009

Chen, Y. and Gillieson, D. (2009). Evaluation of Landsat TM vegetation indices for estimating vegetation cover on semi-arid rangelands: a case study from Australia. *Canadian Journal of Remote Sensing* 35(5): 435-446.

Griesser M, Barnaby J, Schneider NA, Figenschau N, Kazem A, Wright J, Griffith SC, Russell AF (2009). Influence of winter ranging behaviour on the social organization of a cooperatively breeding bird species, the apostlebird. *Ethology* 115, 888-896.

Holleley CE, Russell AF, Griffith SC (2009). Isolation and characterization of tetranucleotide loci in the chestnut-crowned babbler *Pomatostomus ruficeps*. *Molecular Ecology Resources* 9, 993-995.

2010

Lee, E., Croft, D. B. and Ramp, D. (2010). Flight response as a causative factor in kangaroo-vehicle collisions. Coulson, G. & Eldridge, M. [Eds]. *Macropods: the Biology of Kangaroos, Wallabies and Rat-kangaroos*. CSIRO Publishing, Melbourne.

Russell AF, Portelli DJ, Russell DJF, Barclay H (2010). Breeding ecology of the Chestnut-crowned Babbler: a cooperative breeder in the desert. *Emu* **110**, 324-331.

Rollins LA, Holleley CE, Wright J, Russell AF, Griffith SC (2010). Isolation and characterization of 12 polymorphic tetranucleotide microsatellite loci in the apostlebird (*Struthidea cinerea*). *Conservation Genetics Resources* **2**, 229-231.

2012

Dunkerley, D. L. (2012). Effects of rainfall intensity fluctuations on infiltration and runoff: rainfall simulation on dryland soils, Fowlers Gap, Australia. *Hydrological Processes* **26**(15): 2211-2224.

Browning LE, Patrick SC, Rollins LA, Griffith SC, Russell AF (2012). Kin selection, not group augmentation, predicts helping in an obligate cooperatively breeding bird. *Proceedings of the Royal Society of London: Biological Sciences*, **279**: 3861-3869.

Browning LE, Young CM, Savage JL, Russell DJF, Barclay H, Griffith SC, Russell AF (2012). Carer provisioning rules in an obligate cooperative breeder: Prey type, size and delivery rate. *Behavioral Ecology and Sociobiology* **66**, 1639-1649.

Rollins LA, Browning LE, Holleley CE, Savage JL, Russell AF, Griffith SC (2012). Building genetic networks using relatedness information: a novel approach for the estimation of dispersal and characterization of group structure in social animals. *Molecular Ecology* **21**, 1727-1740.

Sorato E, Gullett PR, Griffith SC, Russell AF (2012). Effects of predation risk on foraging behaviour and group size: adaptations in a social cooperative species. *Animal Behaviour* **84**, 823-834.

2013

Dunkerley, D. L. (2013). Sub-daily rainfall events in an arid environment with marked climate variability: Variation among wet and dry years at Fowlers Gap, New South Wales, Australia. *Journal of arid environments* **96**: 23-30.

Nomano F, Browning LE, Rollins LA, Nakagawa S, Griffith SC, Russell AF (2013). Feeding nestlings does not function as a signal of social prestige in cooperatively breeding chestnut-crowned babbler. *Animal Behaviour* **86**, 277-289.

Young CM, Browning LE, Savage JL, Griffith SC, Russell AF (2013). No evidence for deception over allocation to brood care in a cooperative bird. *Behavioral Ecology* **24**, 70-81.

2014

Dunkerley, D. L. (2014). Stemflow production and intrastorm rainfall intensity variation: an experimental analysis using laboratory rainfall simulation. *Earth Surface Processes and Landforms* **39**(13): 1741-1752.

Fisher, A., Fink, D., Chappell, J. and Melville, M. (2014). ²⁶Al/¹⁰Be dating of an aeolian dust mantle soil in western New South Wales, Australia. *Geomorphology* **219**: 201-212.

Nomano FY, Browning LE, Nakagawa S, Griffith SC, Russell AF (2014). Validation of an automated data collection method for quantifying social networks in collective behaviours. *Behavioral Ecology and Sociobiology* **68**, 1379-1391.

2015

Dunkerley D. L. (2015). Intra-event intermittency of rainfall: An analysis of the metrics of rain and no-rain periods. *Hydrological Processes* **29**(15): 3294-305.

Engesser S, Crane JM, Savage JL, Russell AF*, Townsend SW (2015). Experimental evidence for phonemic contrasts in a nonhuman vocal system. *PLOS Biology* **13**(6), e1002171.

Holdaway, S. and Douglass, M. (2015). Use beyond manufacture: non-flint stone artifacts from Fowlers Gap, Australia. *Lithic Technology* **40**(2): 94-111.

- Macdonald, B. C. T., Warneke, S., Maïson, E., McLachlan, G. and Farrell, M. (2015). Spatial decoupling of soil nitrogen cycling in an arid chenopod pattern ground. *Soil Research* 53(1): 97-104.
- Nomano FY, Browning LE, Savage JL, Rollins LA, Griffith SC, Russell AF (2015). Unrelated helpers neither signal contributions nor suffer retribution in chestnut-crowned babbler. *Behavioural Ecology* **26**, 986-995.
- Sharp, M., McLeod, S.R., Leggett, K.E.A. and T. J. Gibson, (2015). Evaluation of a spring-powered captive bolt gun for killing kangaroo pouch young. *Wildlife Research*, <http://dx.doi.org/10.1071/WR14094>.
- Sorato E, Gullett PR, Creasey MJS, Griffith SC, Russell AF (2015). Plastic territoriality in group-living chestnut-crowned babbler: Roles of resource value, holding potential and predation risk. *Animal Behaviour* **101**, 155-168.
- Vendl C, Clauss M, Stewart M, Leggett K, Hummel J, Kreuzer M, Munn A (2015) Decreasing methane yield with increasing food intake keeps daily methane emissions constant in two foregut fermenting marsupials, the western grey (*Macropus fuliginosus*) and red kangaroos (*Macropus rufus*). *Journal of Experimental Biology* **218**: 3425-3434T.

2016

- Acworth, R. I., Rau, G. C., Cuthbert, M. O., Jensen, E., & Leggett, K. (2016). Long-term spatio-temporal precipitation variability in arid-zone Australia and implications for groundwater recharge. *Hydrogeology journal* **24**(4): 905-921.
- Chapell, MA, Buttermer WA, Russell AF (2016). Energetics of communal roosting in chestnut-crowned babbler: implications for group dynamics and breeding phenology. *Journal of Experimental Biology*, **219**, 3321-3328.
- Crane JMS, Savage JL, Russell AF (2016). Diversity and function of vocalisations in the cooperatively breeding chestnut-crowned Babbler. *Emu* **116**, 241-241.
- Liebl AL, Browning LE, Russell AF (2016). Manipulating carer number versus brood size: complementary but not equivalent ways of quantifying carer effects on offspring. *Behavioral Ecology* **27**, 1247-1254.
- Liebl AL, Nomano FY, Browning LE, Russell AF (2016). Experimental evidence for fully additive care among male carers in the cooperatively breeding chestnut-crowned babbler. *Animal Behaviour* **115**, 47-53.
- Munn AJ, Alemseged Y, Vendl C and Leggett K (2016) Comparative daily energy expenditure and water turnover by dorper and merino breed sheep measured using doubly-labelled water. *The Rangeland Journal* **38**: 361-366
- Russell AF (2016). Chestnut-crowned babbler: Dealing with climatic adversity and uncertainty in the Australian arid zone. In *Cooperative breeding in vertebrates* (eds. WD Koenig & JL Dickinson). University Press: Cambridge MA, 150-164.
- Sorato E, Griffith SC, Russell AF (2016). The price of associating with breeders in the cooperatively breeding chestnut-crowned babbler: foraging constraints, survival and sociality. *Journal of Animal Ecology* **85**, 1340-1351.
- Sorato, E., Griffith, S.C., & Russell AF (2016). The price of associating with breeders in the cooperatively breeding chestnut-crowned babbler: foraging constraints, survival and sociality. *Journal of Animal Ecology* **85**, 1340-1351.
- Zhang, Z. S., Zhao, Y., Li, X. R., Huang, L., & Tan, H. J. (2016). Gross rainfall amount and maximum rainfall intensity in 60-minute influence on interception loss of shrubs: a 10-year observation in the Tengger Desert. *Scientific Reports* **6**(1): 1-10.

2017

- Dunkerley, D. L. (2017). An approach to analysing plot scale infiltration and runoff responses to rainfall of fluctuating intensity. *Hydrological Processes* **31**(1): 191-206.

Vendl, C., Munn, A.J., Leggett, K., Clauss, M. (2017), Merycism in western grey (*Macropus fuliginosus*) and red kangaroo (*Macropus rufus*). *Mammalian Biology*. **86**: 21-26.

2018

Capp E, Liebl AL, Cones AG, Russell AF (2018) Advancing breeding phenology does not affect incubation schedules in chestnut-crowned babbler: Opposing effects of temperature and wind

Dunkerley, D. L. (2018). How is overland flow produced under intermittent rain? An analysis using plot-scale rainfall simulation on dryland soils. *Journal of Hydrology* **556**: 119-130. *Ecology and Evolution* **8** (1), 696-705

Leggett, K. E., Welaratne, T., Letnic, M., McLeod, S., & Dawson, T. (2018). Rediscovery of the plains mouse (*Pseudomys australis*) (Rodentia: Muridae) in New South Wales. *Australian Mammalogy* **40**(1): 127-130.

Richardson, B.J. (2018) Subspecies definitions and legislation: from eastern wallaroo (*Osphranter robustus robustus*) to euro (*Osphranter robustus erubescens*)* *Australian Mammalogy* **41**(1) 65-75.

2019

Austin, V.I., Higgot, C., Viguier, A., Grundy, L., Russell, A.F., Griffith, S.C. (2019) Song rate and duetting in the Chirruping Wedgebill (*Psophodes cristatus*): frequency, form and functions. *Emu – Austral Ornithology* **119** (2) doi.org/10.1080/01584197.2018.1561193

Brandl, H.B., Farine, D.R., Funghi, C., Schuett, W., Griffith, S.C. (2019) Early-life social environment predicts social network position in wild zebra finches. *Proceedings of the Royal Society B* doi.org/10.1098/rspb.2018.2579

Brandl, H.B., Griffith, S.C., Laaksonen, T., Schuett, W. (2019) Begging calls provide social cues for prospecting conspecifics in the wild Zebra Finch (*Taeniopygia guttata*). *The Auk* **136** (2) ukz007

Brandl, H.B., Griffith, S.C., Schuett, W. (2019) Wild zebra finches choose neighbours for synchronized breeding. *Animal Behaviour* **151**, 21-28.

Brandl, H.B., Griffith, S.C., Farine, D.R., Schuett, W. (2019) Wild zebra finches that nest synchronously have long-term stable social ties. *Journal of Animal Ecology* doi.org/10.1111/1365-2656.13082

Cooper, C.E., Wither, P.C., Hurley, L.L., Griffiths, S.C. (2019) The Field Metabolic Rate, Water Turnover, and Feeding and Drinking Behavior of a Small Avian Desert Granivore During a Summer Heatwave. *Front. Physiol.* doi.org/10.3389/fphys.2019.01405

Dunkerley D. L. (2019). What does I30 tell us? An assessment using high-resolution rainfall event data from two Australian locations. *Catena* **180**:320-332.

Dunkerley, D. L. (2019). How does sub-hourly rainfall intermittency bias the climatology of hourly and daily rainfalls? Examples from arid and wet tropical Australia. *International Journal of Climatology* **39**(4): 2412-2421.

Dunkerley, D. L. (2019). Rainfall intensity bursts and the erosion of soils: an analysis highlighting the need for high temporal resolution rainfall data for research under current and future climates. *Earth Surface Dynamics* **7**(2).

Dunkerley, D. L. (2019). Sub-Daily Rainfall Intensity Extremes: Evaluating Suitable Indices at Australian Arid and Wet Tropical Observing Sites. *Water* **11**(12): 2616.

Engesser S, Holub JL, O'Neill LG, Russell AF, Townsend SW (2019). Chestnut-crowned babbler calls are composed of meaningless shared building blocks. *Proceedings of the National Academy of Sciences, USA* **116**, 19579-19584.

Fisk, C.; Clarke, K.D.; Lewis, M.M. Comparison of Hyperspectral Versus Traditional Field Measurements of Fractional Ground Cover in the Australian Arid Zone. *Remote Sens.* 2019, **11**, 2825.

- Funghi, C., (2019) The integration of spatial-ecology and animal behaviour in the unpredictable arid zone. A case study with the zebra finch. PhD thesis Macquarie University and Universitat Hamburg <https://ediss.sub.uni-hamburg.de/volltexte/2019/9952/pdf/Dissertation.pdf#page=97>
- Funghi, C., McCowan, L.S.C., Schuett, W., Griffith, S.C. (2019) High air temperatures induce temporal, spatial and social changes in the foraging behaviour of wild zebra finches. *Animal Behaviour* **149**, 33-43.
- Gilbert, J.D.J. (2019) No division of labour, and subfertile foundresses in phyllode-gluing Acacia thrips. *bioRxiv* doi.org/10.1101/755371.
- Hollis, R. (2019) The behaviours of sentinels and benefits of philopatry in helpers of the cooperatively breeding chestnut-crowned babbler (*Pomatostomus ruficeps*). Masters Thesis University of Exeter <http://hdl.handle.net/10871/37156>
- Leggett, K.E.A., Stubbs-Oliver, A. Brun, M.L, Dawson, T.J. (2019). Carnivory in Euros, inland wallaroos (*Macropus robustus erubescens*). *Australian Mammalogy*, DOI: 10.1071/AM19055.
- Maute, K., Hose, G.C., Story, P., Bull, C.M., French, K. (2019) Surviving drought: a framework for understanding animal responses to small rain events in the arid zone. *Ecology* **100**(11) doi.org/10.1002/ecy.2884
- Melville, B., Fisher, A., Lucieer, A. (2019) Ultra-high spatial resolution fractional vegetation cover from unmanned aerial multispectral imagery. *International Journal of Applied Earth Observation and Geoinformation* **78**, 14-24.
- Mukkavilli, S.K., Prasad, A.A., Taylor, R.A., Huang, J., Mitchell, R.M., Troccoli, A., Kay, M.J. (2019) Assessment of atmospheric aerosols from two reanalysis products over Australia. *Atmospheric Research* **215**, 149-164.
- Nomano, F.Y., Savage, J.L., Browning, L.E., Griffith, S.C., Russell, A.F. (2019) Breeding Phenology and Meteorological Conditions Affect Carer Provisioning Rates and Group-Level Coordination in Cooperative Chestnut-Crowned Babblers. *Frontiers in Ecology and Evolution* doi.org/10.3389/fevo.2019.00423
- 2020**
- Crino, O.L., Driscoll, S.C., Brandl, H.B., Buchanan, K.L., Griffith, S.C. (2020) Under the weather: Corticosterone levels in wild nestlings are associated with ambient temperature and wind. *General and Comparative Endocrinology* **285**, 113247.
- Dunkerley, D. (2020) How Is the Intensity of Rainfall Events Best Characterised? A Brief Critical Review and Proposed New Rainfall Intensity Index for Application in the Study of Landsurface Processes. *Water* 2020, **12**, 929.
- Griffith, S.C., Andrew, S.C., McCowan, L.S.C., Hurley, L.L., Duursma, D.E., Buchanan, K.L., Mariets, M.M. (2019) Egg size is unrelated to ambient temperature in the opportunistically breeding zebra finch. *Journal of Avian Biology* **51**(2) doi.org/10.1111/jav.02356
- Loning, H., Griffith, S. C., & Naguib, M. (2020). The ecology of wild zebra finch song – why do they sing? In *Wias Annual Conference 2020: Frontiers in Animal Sciences* (pp. 35-35). WIAS.
- Mine, J. (2020) The role of acoustic templates, contextual information and visual representation in the combinatorial communication system of chestnut-crowned babblers. Masters thesis University of Exeter <http://hdl.handle.net/10871/120733>
- Pahl, L. (2020) Macropods, feral goats, sheep and cattle. 1. Equivalency in how much they eat. *The Rangeland Journal* **41** (6) 497-518.
- Pahl, L. (2020) Macropods, feral goats, sheep and cattle. 2. Equivalency in what and where they eat. *The Rangeland Journal* **41**(6) doi.org/10.1071/RJ19059

- Rees, J.D., Crowther, M.S., Kingsford, R.T., Letnic, M. (2020) Direct and indirect effects of carrion subsidies in an arid rangeland: Carrion has positive effects on facultative scavengers and negative effects on a small songbird. *Journal of Arid Environments* **179**, 104174.
- Sheldon, E.L., Schrey, A.W., Hurley, L.L. Griffith, S.C. (2020) Dynamic changes in DNA methylation during postnatal development in zebra finches (*Taeniopygia guttata*) exposed to different temperatures. *Journal of Avian Biology*. doi.org/10.1111/jav.02294
- Szabo, B., Whiting, M.J. (2020) Do lizards have enhanced inhibition? A test in two species differing in ecology and sociobiology. *Behavioural Processes* **172**, 104043.