

Palaeontology Bibliography for the Naracoorte Caves National Park and World Heritage Area

P = Palaeoecology; T = Taxonomy; D = Depositional setting and dating; S = Species Occurrence within/among sites; PC = Palaeoclimate; Taph = Taphonomy; F = Functional Morphology; IF = Five-year impact factor (as at Sept 2014)

Peer-reviewed scientific publications

Ashwell, K.W.S., Hardman, C.D. and Musser, A.M. 2014. Brain and behaviour of living and extinct echidnas. *Zoology* **117**, 349–361. (F) IF = 1.6

Ayliffe, L. and Veeh, H.H. 1988. Uranium-series dating of speleothems and bones from Victoria Cave, Naracoorte, South Australia. *Chemical Geology (Isotope Geoscience Section)* **72**, 211–234. (D) IF = 4.4

Ayliffe, L.K., Marianelli, P.C., Moriarty, K.C., Wells, R.T., McCulloch, M.T., Mortimer, G.E. and Hellstrom, J.C. 1998. 500 ka precipitation record from south-eastern Australia: evidence for interglacial relative aridity. *Geology* **26**, 147–150. (PC) IF = 4.9

Bestland, E.A. and Rennie, J. 2006. Stable isotope record ($\delta^{18}\text{O}$ and $\delta^{13}\text{C}$) of a Naracoorte Caves speleothem (Australia) from before and after the Last Interglacial. *Alcheringa Special Issue 1*, 19–29. (PC) IF = 1

Bishop, N. 1997. Functional anatomy of the macropodid pes. *Proceedings of the Linnean Society of New South Wales* **117**, 17–50. (F) No IF

Boles, W.E. 2008. Systematics of the fossil Australian giant megapodes *Progura* (Aves: Megapodiidae). *Oryctos* **7**, 191–211. (T) IF = 1.7

Brown, S.P. and Wells, R.T. 2000. A Middle Pleistocene vertebrate fossil assemblage from Cathedral Cave, Naracoorte, South Australia. *Transactions of the Royal Society of South Australia* **124**, 91–104. (P) IF = 0.5

Darrénougué, N., De Deckker, P., Fitzsimmons, K.E., Norman, M.D., Reed, L., van der Kaars, S. and Fallon, S. 2009. A late Pleistocene record of aeolian sedimentation in Blanche Cave, Naracoorte, South Australia. *Quaternary Science Reviews* **28**, 2600–2615. (D) IF = 5.5

Dawson, L. 2006. An ecophysiological approach to the extinction of the large marsupial herbivores in middle and late Pleistocene Australia. *Alcheringa Special Issue 1*, 89–114. (P) IF = 1

Demarshelier, J.M., Goede, A., Ayliffe, L.K., McCulloch, M.T. and Moriarty, K. 2000. Stable isotope record and its palaeoenvironmental interpretation for a late Middle Pleistocene speleothem from Victoria Fossil Cave, Naracoorte, South Australia. *Quaternary Science Reviews* **19**, 763–774. (PC) IF = 5.5

Easton, L. C. 2006. Pleistocene grey kangaroos from the fossil chamber of Victoria Fossil Cave, Naracoorte, South Australia. *Transactions of the Royal Society of South Australia* **130**, 17–29. (T) IF = 0.5

Easton, L.C. 2004. Fossil wallabies in the fossil deposit of the Victoria Cave Fossil Chamber, Naracoorte, South Australia. *South Australian Naturalist* **78**, 18–24. (T) No IF

Forbes, M.S. and Bestland, E.A. 2006. Guano-derived deposits within the sandy cave fills of Naracoorte, South Australia. *Alcheringa Special Issue 1*, 129–146. (D) IF = 1

Forbes, M.S. and Bestland, E.A. 2007. Origin of the sedimentary deposits of the Naracoorte Caves, South Australia. *Geomorphology* **86**, 369–392. (D) IF = 3.2

Forbes, M.S., Bestland, E.A., Wells, R.T. and Krull, E.S. 2007. Palaeoenvironmental reconstruction of the Late Pleistocene to Early Holocene Robertson Cave sedimentary deposit, Naracoorte, South Australia. *Australian Journal of Earth Sciences* **54**, 541–559. (D) IF = 1.5

Fraser, R.A. and Wells, R.T. 2006. Palaeontological excavation and taphonomic investigation of the late Pleistocene fossil deposit in Grant Hall, Victoria Fossil Cave, Naracoorte, South Australia. *Alcheringa Special Issue 1*, 147–161. (P) IF = 1

Griffiths, M., Wells, R.T. and Barrie, D.J. 1991. Observations on the skulls of fossil and extant echidnas (Monotremata: Tachyglossidae). *Australian Mammalogy* **14**, 87–101. (T) No IF

Grün, R. 2000. An alternative for model for open system U-series/ESR age calculations: (closed system U-series)-ESR, CSUS-ESR. *Ancient TL* **18**, 1–4. (D) No IF

Grün, R., Moriarty, K. and Wells, R. 2001. Electron spin resonance dating of the fossil deposits in the Naracoorte Caves, South Australia. *Journal of Quaternary Science* **16**, 49–59. (D) IF = 3.3

Helgen, K.M., Wells, R.T., Kear, B.P., Gerdtz, W.R. and Flannery, T.F. 2006. Ecological and evolutionary significance of sizes of giant extinct kangaroos. *Australian Journal of Zoology* **54**, 293–303. (P) IF = 0.9

Hocknull, S.A., Zhao, J., Feng, Y. and Webb, G.E. 2007. Responses of Quaternary rainforest vertebrates to climate change in Australia. *Earth and Planetary Science Letters* **264**, 317–331. (P) IF = 4.7

Lundelius, E.L. Jr. 1983. Climatic implications of Late Pleistocene and Holocene faunal associations in Australia. *Alcheringa* **7**, 125–149. (P) IF = 1

Janis, C.M., Buttrill, K. and Figueirido, B. 2014. Locomotion in extinct giant kangaroos: were Sthenurines hop-less monsters? *PLoS One* **9**, e109888 (F) IF = 4

Macken, A.C. and Reed, E.H. 2013. Late Quaternary small mammal faunas of the Naracoorte Caves World Heritage Area. *Transactions of the Royal Society of South Australia* **137**, 53–67. (S) IF = 0.5

Macken, A.C. and Reed E.H. 2014. Postglacial reorganisation of a small-mammal paleocommunity in southern Australia reveals thresholds of change. *Ecological Monographs* **84**, 563–577. (P) IF = 9.2

Macken, A.C., Jankowski, N.R., Price, G.P., Bestland, E.A., Reed, E.H., Prideaux, G.P. and Roberts, R.G. 2011. Application of sedimentary and chronological analyses to refine the depositional context of a Late Pleistocene vertebrate deposit, Naracoorte, South Australia. *Quaternary Science Reviews* **30**, 2690–2702. (D) IF = 5.5

Macken, A.C., McDowell, M.C., Bartholomeusz, D.H. and Reed, E.H. 2013a. Chronology and stratigraphy of the Wet Cave vertebrate fossil deposit, Naracoorte, and relationship to palaeoclimatic conditions of the Last Glacial Cycle in south-eastern Australia. *Australian Journal of Earth Sciences* **60**, 271–281. (D) IF = 1.5

Macken, A.C., Prideaux, G.J. and Reed, E.H. 2012. Variation and pattern in the responses of mammal faunas to Late Pleistocene climatic change in southeastern South Australia. *Journal of Quaternary Science* **27**, 415–424. (P) IF = 3.3

Macken, A.C., Staff, R.A. and Reed, E.H. 2013b. Bayesian age-depth modelling of Late Quaternary deposits from Wet and Blanche caves, Naracoorte, South Australia: a framework for comparative faunal analyses. *Quaternary Geochronology* **17**, 26–43. (D) IF = 3.4

- Maddock, E. 1971. Some mammal remains from caves in the Naracoorte area. *South Australian Naturalist* **46**, 24–27. (S) No IF
- McNamara, J.A. 1997. Some smaller macropod fossils of South Australia. *Proceedings of the Linnean Society of New South Wales* **117**, 97–104. (T) No IF
- Megirian, D., Prideaux, G.J., Murray, P.F. and Smit, N. 2010. An Australian land mammal age biochronological scheme. *Paleobiology* **36**, 658–671. (P) IF = 3.3
- Merrilees, D. 1964. Two species of the extinct genus *Sthenurus* Owen (Marsupialia, Macropodidae) from south-eastern Australia, including *Sthenurus gilli* sp. nov. *Journal of the Royal Society of Western Australia* **48**, 22–32. (T) No IF
- Moriarty, K.C., Wells, R.T., Ayliffe, L.K, Grün, R. and Roberts, RG 1999. Three decades of dating of Victoria Cave fossil chamber, Naracoorte: pitfalls in dating a pitfall. *Records of the Western Australian Museum Supplement* **57**, 412–413. (D)
- Moriarty, K.C., McCulloch, M.T., Wells, R.T. and McDowell, M.C. 2000. Mid-Pleistocene cave fills, megafaunal remains and climate change at Naracoorte, South Australia: towards a predictive model using U-Th dating of speleothems. *Palaeogeography, Palaeoclimatology, Palaeoecology* **159**, 113–145. (P) IF = 3.0
- Murray, P.F. 1978. Late Cenozoic monotreme anteaters. *Australian Zoologist* **20**, 29–55. (T) IF = 0.9
- Palci, A., Caldwell, M. and Scanlon, J. 2014. First report of a pelvic girdle in the fossil snake *Wonambi naracoortensis* Smith, 1976, and a revised diagnosis for the genus. *Journal of Vertebrate Paleontology* **34**, 965–969. (F) IF = 2.1
- Pate, F.D., McDowell, M.C., Wells, R.T. and Smith, A.M. 2002. Last recorded evidence for megafauna at Wet Cave, Naracoorte, South Australia 45,000 years ago. *Australian Archaeology* **54**, 53–55. (D) No IF
- Pate, F.D., McDowell, M.C., Wells, R.T. and Smith, A.M. 2006. Additional AMS radiocarbon dates for Wet Cave and the timing of megafaunal extinctions in the Naracoorte region of South Australia. *Alcheringa Special Issue* **1**, 277–279. (D) IF = 1
- Pledge, N.S. 1977. A new species of *Thylacoleo* (Marsupialia: Thylacoleonidae) with notes on the occurrences and distribution of Thylacoleonidae in South Australia. *Records of the South Australian Museum* **17**, 277–283. (T) No IF
- Pledge, N.S. 1980. Giant echidnas in South Australia. *South Australian Naturalist* **55**, 27–30. (T) No IF
- Pledge, N.S. 1991. Occurrences of Palorchestes species (Marsupialia: Palorchestidae) in South Australia. *Records of the South Australian Museum* **25**, 161–174. (T) No IF
- Prideaux, G.J. 2000. *Simosthenurus newtonae* sp. nov., a widespread sthenurine kangaroo (Diprotodontia Macropodidae) from the Pleistocene of southern and eastern Australia. *Records of the South Australian Museum* **22**, 1–15. (T) NO IF
- Prideaux, G.J. 2004. Systematics and evolution of the sthenurine kangaroos. *Geological Sciences* **146**. (T) No IF
- Prideaux, G.J. and Wells, R.T. 1998. *Sthenurus baileyi* sp. nov., a new fossil kangaroo from the Pleistocene of southern Australia. *Transactions of the Royal Society of South Australia* **122**, 1–15. (T) IF = 0.5

- Prideaux, G.J., Roberts, R.G., Megirian, D., Westaway, K.E., Hellstrom, J.C. and Olley, J.M. 2007. Mammalian responses to Pleistocene climate change in south-eastern Australia. *Geology* **35**, 33–36. (P) IF = 4.9
- Reed, E.H. 2006. *In situ* taphonomic investigation of Pleistocene large mammal bone deposits from The Ossuaries, Victoria Fossil Cave, South Australia. *Helictite* **39**, 5–15. (Taph) No IF
- Reed, E.H. 2008. Pinning down the pitfall: entry points for Pleistocene vertebrate remains and sediments in the Fossil Chamber, Victoria Fossil Cave, Naracoorte, South Australia. *Quaternary Australasia* **25**, 2–8. (Taph) No IF
- Reed, E.H. and Bourne, S.J. 2000. Pleistocene fossil vertebrate sites of the south east region of South Australia. *Transactions of the Royal Society of South Australia* **124**, 61–90. (S) IF = 0.5
- Reed, E.H. and Bourne, S.J. 2009. Pleistocene fossil vertebrate sites of the south east region of South Australia II. *Transactions of the Royal Society of South Australia* **133**, 30–40. (S) IF = 0.5
- Roberts, R.G., Flannery, T.F., Ayliffe, L.K., Yoshida, H., Olley, J.M., Prideaux, G.J., Laslett, G.M., Baynes, A., Smith, M.A., Jones, R. and Smith, B.L. 2001. New ages for the last Australian megafauna: continent-wide extinction about 46,000 years ago. *Science* **292**, 1888–1892. (P) IF = 34.5
- Scanlon, J. D. and Lee, M. S. Y. 2002. Varanoid-like dentition in primitive snakes. *Journal of Herpetology* **36**, 100–106. (T) IF = 0.8
- Scanlon, J.D. 2005. Cranial morphology of the Plio–Pleistocene giant madtsoiid snake *Wonambi naracoortensis*. *Acta Palaeontologica Polonica* **50**, 139–180. (F) IF = 1.7
- Smith, M.J. 1971. Small fossil vertebrates from Victoria Cave, Naracoorte, South Australia. I. Potoroinae (Macropodidae), Petauridae and Burramyidae (Marsupialia). *Transactions of the Royal Society of South Australia* **95**, 185–198. (P) IF = 0.5
- Smith, M.J. 1972. Small fossil vertebrates from Victoria Cave, Naracoorte South Australia II. Peramelidae, Thylacinidae and Dasyuridae (Marsupialia). *Transactions of the Royal Society of South Australia* **96**, 125–137. (P) IF = 0.5
- Smith, M.J., 1976. Small fossil vertebrates from Victoria Cave, Naracoorte, South Australia. IV. Reptiles. *Transactions of the Royal Society of South Australia* **100**, 39–51. (T) IF = 0.5
- St Pierre, E., Zhao, J. and Reed, E. 2009. Expanding the utility of Uranium-series dating of speleothems for archaeological and palaeontological applications. *Journal of Archaeological Science* **36**, 1416–1423. (D) IF = 2.1
- St Pierre, E., Zhao, J. and Reed, E. 2012. U-series dating of soda straw stalactites from excavated deposits: method development and application to Blanche Cave, Naracoorte, South Australia. *Journal of Archaeological Science* **39**, 922–930. (D) IF = 2.4
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- Tideman, C.R. 1967. Some small mammal remains from cave deposits in the south-east of South Australia. *South Australian Naturalist* **42**, 21–27. (S) No IF

Tyler, M.J. 1977. Pleistocene frogs from caves at Naracoorte, South Australia. *Transactions of the Royal Society of South Australia* **101**, 85–89. (T) IF = 0.5

Van Tets, G.F. and Smith, M.J. 1974. Small fossil vertebrates from Victoria Cave, Naracoorte, South Australia. III. Birds. *Transactions of the Royal Society of South Australia* **98**, 225–227. (T) IF = 0.5

Van Tets, G.F., 1974. A revision of the fossil Megapodiidae (Aves), including a description of a new species *Progura de Vis*. *Transactions of the Royal Society of South Australia* **98**, 213–224. (T) IF = 0.5

Wells, R.T. and Murray, P.F. 1979. A new sthenurine kangaroo (Marsupialia, Macropodidae) from southeastern South Australia. *Transactions of the Royal Society of South Australia* **103**, 213–219. (T) IF = 0.5

Wells, R.T., and Nicol, B. 1977. On the manus and pes of *Thylacoleo carnifex* Owen (Marsupialia). *Transactions of the Royal Society of South Australia* **101**, 139–146. (F) IF = 0.5

Wells, R.T., Moriarty, K. and Williams, D.L.G. 1984. The fossil vertebrate deposits of Victoria Fossil Cave, Naracoorte: an introduction to the geology and fauna. *The Australian Zoologist* **21**, 305–333. (P) IF = 0.9

Williams, D.L.G., 1980. Catalogue of Pleistocene vertebrate fossils and sites in South Australia. *Transactions of the Royal Society of South Australia* **104**, 101–115. (S) IF = 0.5

Wroe, S., Myers T. J., Wells R. T. and Gillespie A. 1999. Estimating the weight of the Pleistocene marsupial lion, *Thylacoleo carnifex* (Thylacoleonidae: Marsupialia): implications for the ecomorphology of a marsupial super-predator and hypotheses of impoverishment of Australian marsupial carnivore faunas. *Australian Journal of Zoology* **47**, 489 – 498. (F) IF = 0.9

Wroe, S. and Field, J. 2006. A review of the evidence for a human role in the extinction of Australian megafauna and an alternative interpretation. *Quaternary Science Reviews* **25**, 2692–2703. (P) IF = 5.5

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Theses and unpublished reports

Adnams-Hodgets, W.A.J. 1988. A partial reconstruction of the musculature and habits of an extinct browsing kangaroo (*Sthenurus occidentalis*). BSc (Hons) Thesis, Flinders University of South Australia. (F)

Brown, S.P. 1998. A geological and palaeontological examination of the Pleistocene Cathedral Cave fossil accumulation, Naracoorte, South Australia. BSc (Hons) Thesis, Flinders University of South Australia. (P)

Forbes, M.S. 2006. Geochemical and sedimentological investigation of two late Pleistocene megafauna fossil sites in South Australia. PhD Thesis, Flinders University, South Australia. (D)

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Gresham, R. 2000. A palaeontological investigation of the Uranium-series dated deposit in Grant Hall chamber, Naracoorte Caves, South Australia. BSc (Hons) Thesis, Flinders University, South Australia. (P)

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- Macken, A.C. 2009. Palaeoecological investigation of the Grant Hall fossil deposit, Victoria Fossil Cave, Naracoorte, South Australia. BSc (Hons) Thesis. Flinders University, South Australia, Australia. (P)
- Macken, A.C. 2013. Natural variation in south-eastern South Australian small mammal communities through the Late Quaternary. PhD Thesis, Flinders University, South Australia. (P)
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- Reed, E.H. 2003. Taphonomy of large mammal bone deposits, Naracoorte Caves. PhD Thesis. Flinders University, South Australia. (Taph)
- Rennie, J. 2001. Palaeoclimatic Interpretation of a high resolution stable isotope record of a Naracoorte speleothem, South Australia. BSc Honours Thesis, Flinders University, South Australia. (PC)
- Sargent, G.M. 1993. Phylogenetic analysis of extinct and extant diprotodontian marsupials using DNA sequencing. BSc (Hons) Thesis. Flinders University, South Australia. (T)
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- Long, J., Archer, M., Flannery, T. and Hand, S. 2002. *Prehistoric mammals of Australia and New Guinea: one hundred million years of evolution*. University of New South Wales Press, Sydney. (T)

Reed, E.H. and Gillieson, D. 2003. Mud and bones: cave deposits and environmental history in Australia. In: *Beneath the Surface: a Natural History of Australian Caves*. B. Finlayson, and E. Hamilton-Smith (eds.), pp. 89–110. UNSW Press, Sydney. (D)

Tyler, M.J. 1991. Australian fossil frogs. In: *Vertebrate Palaeontology of Australasia*. P. Vickers-Rich, J.M. Monaghan, R.F. Baird and T.H. Rich (eds.), pp. 591-604. Pioneer Design Studio, Lilydale.

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Wells, R.T. and Pledge, N.S. 1983. Vertebrate fossils. In: *Natural History of the South East*. M.J. Tyler, C.R. Twindale, J.K. Ling, and J.W. Holmes (eds.), pp. 169-176. Royal Society of South Australia Inc., Adelaide. (S)

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