

References

- Aitken, M. J. 1990. *Science-Based Dating in Archaeology*. London: Longman.
- Alfredson, G. 1984. An Archaeological Investigation into the Aboriginal Use of St. Helena Island, Moreton Bay. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Alfredson, G. 1987. Report on the Archaeological Survey of and Collection from the Proposed Benaraby-Parana Realignment of the North Coast Railway. Unpublished report to McIntyre and Associates.
- Alfredson, G. 1989. Report on an Initial Archaeological Survey of the Stuart Oil Shale Project. Unpublished report to Hollingsworth Consultants Pty Ltd, Brisbane.
- Alfredson, G. 1990. Report on the Initial Archaeological Survey of the Proposed Monte Cristo Resort at Black Head Curtis Island. Unpublished report to Hollingsworth Consultants Pty Ltd, Brisbane.
- Alfredson, G. 1991. Report on an Initial Archaeological Survey for the Gladstone Special Steel Project. Unpublished report to Hollingsworth Consultants Pty Ltd, Brisbane.
- Alfredson, G. 1992. Gladstone Industrial Land Project Studies — Archaeology and Heritage — Stage. Unpublished report to Environmental Science Services, Brisbane.
- Alfredson, G. 1993. Report on an Archaeological Inspection of a Proposed Residential and Recreational Development on Hummock Hill Island. Unpublished report to AGC Woodward-Clyde Pty Ltd for Hummock Hill Island Pty Ltd.
- Alfredson, G. 2002. A Report on an Excavation at Pebble Beach Lot 901 on SP 133223, Parish of Toorbul, Sandstone Point, Caboolture Shire. Unpublished report to Keilor Fox and McGhie.
- Alfredson, G. and Kombumerri Aboriginal Corporation for Culture. 1999. Report on a Collection and a Further Cultural Heritage Assessment for a Proposed Golf Course and Residential Development on Lake Coombabah. Unpublished report to Nimmel Partnership, Mudgeeraba, Queensland.
- Allen, J. (ed.) 1996. *Report of the Southern Forests Archaeological Project: Site Descriptions, Stratigraphies and Chronologies*. Vol. 1. Bundoora, VIC: La Trobe University Archaeological Publications.
- Allen, J. and R. Jones. 1980. Oyster Cove: archaeological traces of the last Tasmanians and notes on the criteria for authentication of flaked glass artefacts. *Papers and Proceedings of the Royal Society of Tasmania* 114: 225–33.
- Allen, J. and J. F. O'Connell (eds) 1995. Transitions: Pleistocene to Holocene in Australia and Papua New Guinea. *Antiquity* 69: 649–862.
- Allen, J. and J. F. O'Connell. 2003. The long and the short of it: archaeological approaches to determining when humans first colonised Australia and New Guinea. *Australian Archaeology* 57: 5–19.
- Anderson, A. J. 1991. The chronology of colonization in New Zealand. *Antiquity* 65: 767–95.
- Andrews, J. 1971. *Sea Shells of the Texas Coast*. Austin, TX: University of Texas Press.
- Ashmore, P. J. 1999. Radiocarbon dating: avoiding errors by avoiding mixed samples. *Antiquity* 73: 124–30.

- Attenbrow, V. 1987. The Upper Mangrove Creek Catchment: A Study of Quantitative Changes in the Archaeological Record. Unpublished PhD thesis, University of Sydney, Sydney.
- Attenbrow, V. 1992. Shell bed or shell midden. *Australian Archaeology* 34: 3–21.
- Attenbrow, V. 2003. Habitation and land use patterns in the Upper Mangrove Creek catchment, New South Wales central coast, Australia. *Australian Archaeology* 57: 20–31.
- Attenbrow, V. 2004. *What's Changing: Population Size or Land-Use Patterns?: The Archaeology of Upper Mangrove Creek, Sydney Basin*. Terra Australis 21. Canberra: Pandanus Books.
- Backhouse, J. 1843. *A Narrative of a Visit to the Australian Colonies*. London: Hamilton Adams.
- Bailey, G. N. 1983. Problems of site formation and the interpretation of spatial and temporal discontinuities in the distribution of coastal middens. In P. M. Masters and N. C. Flemming (eds), *Quaternary Coastlines and Marine Archaeology*, pp. 559–82. London: Academic Press.
- Bailey, G. N. 1993. Shell mounds in 1972 and 1992: reflections on recent controversies at Ballina and Weipa. *Australian Archaeology* 37: 1–17.
- Bailey, G. N. 1994. The Weipa shell mounds: natural or cultural. In M. Sullivan, S. Brockwell and A. Webb (eds), *Archaeology in the North: Proceedings of the 1993 Australian Archaeological Association Conference*, pp. 107–29. Darwin: North Australia Research Unit, Australian National University.
- Bailey, G. N. 1999. Shell mounds and coastal archaeology in northern Queensland. In J. Hall and I. McNiven (eds), *Australian Coastal Archaeology*, pp. 105–12. Research Papers in Archaeology and Natural History 31. Canberra: Archaeology and Natural History Publications, Research School of Pacific and Asian Studies, Australian National University.
- Bailey, G. N., J. Chappell and R. Cribb. 1994. The origin of Anadara shell mounds at Weipa, north Queensland Australia. *Archaeology in Oceania* 29 (2): 69–80.
- Ball, L. C. 1915. Letter to Hamlyn-Harris, Queensland Museum, 24 September 1915.
- Barker, B. 1989. Nara Inlet 1: a Holocene sequence from the Whitsunday Islands, central Queensland coast. *Queensland Archaeological Research* 6: 53–76.
- Barker, B. 1991. Nara Inlet 1: coastal resource use and the Holocene marine transgression in the Whitsunday Islands, central Queensland. *Archaeology in Oceania* 26 (3): 102–9.
- Barker, B. 1993. An Archaeological Survey of Eastern Boyne Island, Gladstone, Central Queensland. Unpublished report to Hollingsworth, Dames and Moore.
- Barker, B. 1995. The Sea People: Maritime Hunter-Gatherers on the Tropical Coast — A Late Holocene Maritime Specialisation in the Whitsunday Islands, Central Queensland. Unpublished PhD thesis, University of Queensland, Brisbane.
- Barker, B. 1996. Maritime hunter-gatherers on the tropical coast: a social model for change. In S. Ulm, I. Lilley and A. Ross (eds), *Australian Archaeology '95: Proceedings of the 1995 Australian Archaeological Association Annual Conference*, pp. 31–43. Tempus 6. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Barker, B. 2004. *The Sea People: Late Holocene Maritime Specialisation in the Whitsunday Islands, Central Queensland*. Terra Australis 20. Canberra: Pandanus Books.
- Beaglehole, J. C. (ed.) 1963. *The Endeavour Journal of Joseph Banks 1768–1771*. 2nd ed. Sydney: Angus and Robertson.
- Beaglehole, J. C. (ed.) 1968. *The Journals of Captain James Cook: The Voyage of the Endeavour, 1768–1771*. Cambridge: Cambridge University Press.
- Beaton, J. 1977. Dangerous Harvest: Investigations in the Late Prehistoric Occupation of Upland South-East Central Queensland. Unpublished PhD thesis, Research School of Pacific and Asian Studies, Department of Prehistory, Australian National University, Canberra.
- Beaton, J. 1982. Fire and water: aspects of Australian Aboriginal management of cycads. *Archaeology in Oceania* 17 (1): 51–8.
- Beaton, J. 1985. Evidence for a coastal occupation time-lag at Princess Charlotte Bay (north Queensland) and implications for coastal colonisation and population growth theories for Aboriginal Australia. *Archaeology in Oceania* 20 (1): 1–20.
- Beaton, J. 1990. The importance of past population for prehistory. In B. Meehan and N. White (eds), *Hunter-Gatherer Demography: Past and Present*, pp. 23–40. Oceania Monograph 39. Sydney: Oceania Publications, University of Sydney.
- Beaton, J. 1995. The transition on the coastal fringe of Greater Australia. *Antiquity* 69: 798–806.
- Beck, W. 1985. Technology, Toxicity and Subsistence: A Study of Australian Aboriginal Plant Food Processing. Unpublished PhD thesis, La Trobe University, Bundoora.
- Bedwell, F. P., F. H. S. Bray and E. R. Connor. 1870. *East Coast of Australia, Queensland: Sandy Cape to Keppel Isles* [map]. 1"=1 nautical mile. Sheet XI. London: Royal Navy.
- Binford, L. R. 1978. *Nanamiut Ethnoarchaeology*. New York: Academic Press.
- Binford, L. R. 1979. Organization and formation processes: looking at curated technologies. *Journal of Anthropological Research* 35 (3): 255–73.

- Binford, L. R. 1980. Willow smoke and dogs' tails: hunter-gatherer settlement systems and archaeological site formation. *American Antiquity* 45 (1): 4–20.
- Bird, C. F. M. and D. Frankel. 1991a. Chronology and explanation in western Victoria and south-east South Australia. *Archaeology in Oceania* 26 (1): 1–16.
- Bird, C. F. M. and D. Frankel. 1991b. Problems in constructing a prehistoric regional sequence: Holocene southeast Australia. *World Archaeology* 23 (2): 179–92.
- Bird, D. W. and R. L. Bliege Bird. 1997. Contemporary shellfish gathering strategies among the Meriam of the Torres Strait Islands, Australia: testing predictions of a central place foraging model. *Journal of Archaeological Science* 24: 39–63.
- Bird, M. K. 1992. The impact of tropical cyclones on the archaeological record: an Australian example. *Archaeology in Oceania* 27 (2): 75–86.
- Bird, M. K. 1995. Coastal morphodynamics and the archaeological record: further evidence from Upstart Bay, north Queensland. *Australian Archaeology* 40: 57–8.
- Bladen, F. M. (ed.) 1892 *Historical Records of New South Wales*. Vol. 1. Sydney: Government Printer.
- Blake, T. W. 1991. A Dumping Ground: Barambah Aboriginal Settlement 1900–40. Unpublished PhD thesis, Department of History, University of Queensland, Brisbane.
- Bollong, C. A. 1994. Analysis of site stratigraphy and formation processes using patterns of pottery sherd dispersion. *Journal of Field Archaeology* 21: 15–28.
- Boow, J. 1991. *Early Australian Commercial Glass: Manufacturing Processes*. Sydney: Department of Planning and Heritage Council of New South Wales.
- Border, A. 1994. Shoalwater Bay Military Training Area (SWBTA): a review of cultural heritage resources their significance and land use. In *Commonwealth Commission of Inquiry Shoalwater Bay, Capricornia Coast, Queensland, Research Reports*, pp. 173–233. No. 5, Vol. A. Canberra: Australian Government Publishing Service.
- Bowdler, S. 1981. Hunters in the highlands: Aboriginal adaptations in the eastern Australian uplands. *Archaeology in Oceania* 16 (2): 99–111.
- Bowdler, S. and S. O'Connor. 1991. The dating of the Australian Small Tool Tradition, with new evidence from the Kimberley, WA. *Australian Aboriginal Studies* 1: 53–62.
- Bowen, G. 1989. A Model for Moreton Island Prehistory: Colonisation, Settlement and Subsistence. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Bowen, G. 1998. Towards a generic technique for dating stone fish traps and weirs. *Australian Archaeology* 47: 39–43.
- Bowman, G. M. 1985a. Oceanic reservoir correction for marine radiocarbon dates from northwestern Australia. *Australian Archaeology* 20: 58–67.
- Bowman, G. M. 1985b Revised radiocarbon oceanic reservoir correction for southern Australia. *Search* 16: 164–65.
- Bowman, G. and N. Harvey. 1983. Radiocarbon dating marine shells in South Australia. *Australian Archaeology* 17: 113–23.
- Brasch, S. 1975. Gureng Gureng, a Language of the Upper Burnett River, South-East Queensland. Unpublished BA(Hons) thesis, Department of Linguistics, Australian National University, Canberra.
- Brian, D. 1994. Shall I Compare Thee to a Fish?: A Comparative Taphonomic Analysis of Vertebrate Remains from Nara Inlet Art Site, Hook Island, Central Queensland Coast. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Brown, J. A. 1981. Charnel houses and mortuary crypts: disposal of the dead in the Middle Woodland Period. In D. S. Brose and N. Greber (eds), *Hopewell Archaeology: The Chillicothe Conference*, pp. 211–9. Kent: Kent State University Press.
- Buchanan, S. 1994. *The Lighthouse Keepers*. Samford, QLD: Coral Coast Publications.
- Buchanan, S. 1999. *Lighthouse of Tragedy: The Story of Bustard Head Lighthouse, Queensland's First Coast Light*. Samford, QLD: Coral Coast Publications.
- Burke, C. 1993. A Survey of Aboriginal Archaeological Sites on the Curtis Coast, Central Queensland. Unpublished report to Queensland Department of Environment and Heritage, Rockhampton.
- Butlin, N. 1983. *Our Original Aggression: Aboriginal Populations of South-Eastern Australia 1788–1850*. London: George Allen and Unwin.
- Cadée, G. C. 2002. Floating articulated bivalves, Texel, North Sea. *Palaeogeography, Palaeoclimatology, Palaeoecology* 183: 355–9.
- Cahen, D. 1978. New excavations at Gombe (ex Kalinga Point), Kinsasha, Zaire. *Antiquity* 52: 51–6.
- Cahen, D., L. H. Keeley and F. L. van Noten. 1979. Stone tools, tool kits, and human behaviour in prehistory. *Current Anthropology* 20: 661–83.
- Cahen, D. and J. Moeyersons. 1977. Subsurface movements of stone artefacts and their implications for the prehistory of central Africa. *Nature* 266: 812–5.
- Callow, W. J., M. J. Baker and D. H. Pritchard. 1963. National Physical Laboratory radiocarbon measurements I. *Radiocarbon* 5: 34–8.

- Campbell, J. 2002. *Invisible Invaders: Smallpox and Other Diseases in Aboriginal Australia 1780–1880*. Melbourne: Melbourne University Press.
- Carter, M. n.d. Rodds Peninsula Site Complex: Inventory of Excavations and Summary of Analyses. Unpublished report to Aboriginal and Torres Strait Islander Studies Unit, University of Queensland, Brisbane.
- Carter, M. 1997. Chenier and Shell Midden: An Investigation of Cultural and Natural Shell Deposits at Rodds Peninsula, Central Queensland Coast. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Carter, M. 2002. Recent results of excavations on the Murray Islands, eastern Torres Strait and implications for early links with New Guinea: bridge and barrier revisited. In S. Ulm, C. Westcott, J. Reid, A. Ross, I. Lilley, J. Prangnell and L. Kirkwood (eds), *Barriers, Borders, Boundaries: Proceedings of the 2001 Australian Archaeological Association Annual Conference*, pp. 1–10. Tempus 7. Brisbane: Anthropology Museum, University of Queensland.
- Carter, M., I. Lilley, S. Ulm and D. Brian. 1999. Mort Creek Site Complex, Curtis Coast: site report. *Queensland Archaeological Research* 11: 85–104.
- Chapman, V. 1999. Drawing the Line: The Rock Paintings of Cania Gorge, South Central Queensland. Unpublished PGDipArts (Anthropology) thesis, Department of Sociology, Anthropology and Archaeology, University of Queensland, Brisbane.
- Chapman, V. 2002. Drawing the line: the rock paintings of Cania Gorge, central Queensland. In S. Ulm, C. Westcott, J. Reid, A. Ross, I. Lilley, J. Prangnell and L. Kirkwood (eds), *Barriers, Borders, Boundaries: Proceedings of the 2001 Australian Archaeological Association Annual Conference*, pp. 91–100. Tempus 7. Brisbane: Anthropology Museum, University of Queensland.
- Chappell, J. and J. Grindrod 1984. Chenier plain formation in northern Australia. In B. Thom (ed.), *Coastal Geomorphology in Australia*, pp. 197–231. Sydney: Academic Press.
- Chivas, A., J. Chappell, H. Polach, B. Pillans and P. Flood. 1986. Radiocarbon evidence for the timing and rate of island development, beach-rock formation and phosphatization at Lady Elliot Island, Queensland, Australia. *Marine Geology* 69: 273–87.
- Clarkson, C., M. Williams, I. Lilley and S. Ulm. n.d. Gooreng Gooreng Contemporary Social Landscapes. Unpublished report to Australian Institute of Aboriginal and Torres Strait Islander Studies, Canberra.
- Claassen, C. 1986. Temporal patterns in marine shellfish-species use along the Atlantic coast in the south-eastern United States. *Southeastern Archaeology* 5: 120–37.
- Claassen, C. 1991. Normative thinking and shell-bearing sites. In M. B. Schiffer (ed.), *Archaeological Method and Theory* 3: 249–98. Tucson: University of Arizona Press.
- Claassen, C. 1998. *Shells*. Cambridge: Cambridge University Press.
- Coaldrake, J. E. 1961. *The Ecosystems of the Coastal Lowlands ('wallum') of Southern Queensland*. C.S.I.R.O. Bulletin 283. Melbourne: Commonwealth Scientific and Industrial Research Organisation.
- Coleman, N. 1981. *What Shell is That?* Sydney: Ure Smith Press.
- Collins, M. B. 1991. Rockshelters and the early archaeological record in the Americas. In T. D. Dillehay and D. J. Meltzer (eds), *The First Americans: Search and Research*, pp. 157–82. Boca Raton, FL: CRC Press.
- Colliver, F. S. and F. P. Woolston. 1978. Aboriginals in the Brisbane area. In *Brisbane Retrospect: Eight Aspects of Brisbane History: Proceedings of a Seminar Conducted by the John Oxley Library, Centennial Hall State Library of Queensland, 5–6 June, 1976*, pp. 58–88. Brisbane: Library Board of Queensland.
- Connah, T. H. 1961. Beach sand heavy mineral deposits of Queensland. *Publications of the Geological Survey of Queensland* 302. Brisbane: Queensland Department of Mines.
- Cook, P. J. and W. Mayo. 1977. *Sedimentology and Holocene History of a Tropical Estuary (Broad Sound, Queensland)*. BMR Bulletin 170. Canberra: Australian Department of National Development.
- Cook, P. J. and H. A. Polach. 1973. A chenier sequence at Broad Sound, Queensland, and evidence against a Holocene high sea level. *Marine Geology* 14: 253–68.
- Cosgrove, R. 1995. *The Illusion of Riches: Scale, Resolution and Explanation in Tasmanian Pleistocene Human Behaviour*. BAR International Series 608. Oxford: Tempus Reparatum Archaeological and Historical Associates Limited.
- Cotter, M. 1996. Holocene environmental change in Deception Bay, southeast Queensland: a paleogeographical contribution to MRAP Stage II. In S. Ulm, I. Lilley and A. Ross (eds), *Australian Archaeology '95: Proceedings of the 1995 Australian Archaeological Association Annual Conference*, pp. 193–205. Tempus 6. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Courtney, K. and I. J. McNiven. 1998. Clay tobacco pipes from Aboriginal middens on Fraser Island, Queensland. *Australian Archaeology* 47: 44–53.
- Cox, J. C. 1888. Notes on two wax figures obtained from an Aboriginal camp at Miriam Vale, near the head of Baffle Creek, Rockhampton. *Proceedings of the Linnean Society of New South Wales* 13: 1223–6.

- Cribb, R. 1996. Shell mounds, domiculture and ecosystem manipulation on western Cape York Peninsula. In P. Veth and P. Hiscock (eds), *Archaeology of Northern Australia*, pp. 150–74. Tempus 4. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Culbert, N. 1996. The Shell 'Artefact' from A7. Unpublished report submitted for AY269 Independent Study 1. Brisbane: Department of Anthropology and Sociology, University of Queensland.
- Curr, E. M. 1887. *The Australian Race*. Melbourne: Government Printer.
- Cziesla, E., S. Eickhoff, N. Arts and D. Winter (eds) 1990. *The Big Puzzle: International Symposium on Refitting Stone Artifacts*. Studies in Modern Archaeology 1. Bonn: Holos Verlag.
- David, B. 1991. Fern Cave, rock art and social formations: rock art regionalisation and demographic changes in southeastern Cape York Peninsula. *Archaeology in Oceania* 26 (2): 41–57.
- David, B. 1994. A Space-Time Odyssey: Rock Art and Regionalisation in North Queensland Prehistory. Unpublished PhD thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- David, B. 2002. *Landscapes, Rock-Art and the Dreaming: An Archaeology of Preunderstanding*. London: Leicester University Press.
- David, B. and D. Chant. 1995. Rock art and regionalisation in north Queensland prehistory. *Memoirs of the Queensland Museum* 37 (2): 357–528.
- David, B. and N. Cole. 1990. Rock art and inter-regional interaction in northeastern Australian prehistory. *Antiquity* 64: 788–806.
- David, B. and H. Lourandos. 1997. 37,000 years and more in tropical Australia: investigating long-term archaeological trends in Cape York Peninsula. *Proceedings of the Prehistoric Society* 63: 1–23.
- David, B. and H. Lourandos. 1999. Landscape as mind: land use, cultural space and change in north Queensland prehistory. *Quaternary International* 59: 107–23.
- David, B. and M. Wilson. 1999. Re-reading the landscape: place and identity in NE Australia during the late Holocene. *Cambridge Archaeological Journal* 9 (2): 163–88.
- Davie, P. (ed.) 1998. *Wild Guide to Moreton Bay: Wildlife and Habitats of a Beautiful Australian Coast — Noosa to the Tweed*. Brisbane: Queensland Museum.
- Davies, S. 1994. An Archaeological Assessment of the Proposed Rail Deviations on the Mainline Upgrade between Bundaberg and Gladstone, Queensland. UQASU Report 237. Brisbane: University of Queensland Archaeological Services Unit.
- Desert Ridge. 1998. *The Discovery Centre's Ultimate Survival Guide to Town of 1770 and Agnes Water*. Agnes Water, QLD: Desert Ridge.
- Dickson, F. 1981. *Australian Stone Hatchets: A Study in Design and Dynamics*. Sydney: Academic Press.
- Dodd, J. R. and R. J. Stanton (Jr). 1981. *Paleoecology: Concepts and Applications*. New York: Wiley Interscience.
- Dortch, C. E., G. W. Kendrick and K. Morse. 1984. Aboriginal mollusc exploitation in southwestern Australia. *Archaeology in Oceania* 19 (3): 81–104.
- Dowling, R. M. 1980. The mangrove vegetation. In H. F. Olsen, R. M. Dowling and D. Bateman, *Biological Resources Investigation (Estuarine Inventory)*, pp. 45–90. Queensland Fisheries Service Research Bulletin 2. Brisbane: Queensland Fisheries Service.
- Druffel, E. R. M. and S. Griffin. 1993. Large variations of surface ocean radiocarbon: evidence of circulation changes in the southwestern Pacific. *Journal of Geophysical Research* 98: 20249–59.
- Druffel, E. R. M. and S. Griffin. 1995. Regional variability of surface ocean radiocarbon from southern Great Barrier Reef corals. *Radiocarbon* 37: 517–24.
- Druffel, E. R. M. and S. Griffin. 1999. Variability of surface ocean radiocarbon and stable isotopes in the southwestern Pacific. *Journal of Geophysical Research* 104: 23607–13.
- Duncum, C. 1991. Archaeological Appraisal of the Southeastern Portion of the Proposed Coral Cove Development, near Bundaberg (Bundaberg KE), Central Queensland, 6 December 1991. Unpublished report to Gutteridge Haskins and Davey.
- Dye, T. 1994. Apparent ages of marine shells: implications for archaeological dating in Hawai'i. *Radiocarbon* 36: 51–7.
- Eales, T. 1998. Stone Soup: A Residue Analysis of Artefacts from Roof Fall Cave, Cania Gorge, Central Queensland. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Eales, T., C. Westcott, I. Lilley, S. Ulm, D. Brian and C. Clarkson. 1999. Roof Fall Cave, Cania Gorge: site report. *Queensland Archaeological Research* 11: 29–42.
- Elkin, A. P. 1949. The origins and interpretation of petroglyphs in south-eastern Australia. *Oceania* 20: 119–57.
- Ellis, P. and W. Whitaker. 1976. *Geology of the Bundaberg 1:250 000 Sheet Area*. Geological Survey of Queensland Report 90. Brisbane: Queensland Department of Mines.
- Endean, R., R. Kenny and W. Stephenson. 1956. The ecology and distribution of intertidal organisms on the rocky shores of the Queensland mainland. *Australian Journal of Marine and Freshwater Research* 7 (1): 88–146.

- Erlandson, J. M. 1988. The role of shellfish in prehistoric economies: a protein perspective. *American Antiquity* 53 (1): 102–9.
- Erlandson, J. M. 1991. Shellfish and seeds as optimal resources: early Holocene subsistence on the Santa Barbara coast. In J. M. Erlandson and R. H. Colten (eds), *Hunter-Gatherers of Early Holocene Coastal California*, pp. 89–100. Perspectives in California Archaeology 1. Los Angeles: Institute of Archaeology, University of California.
- Erlandson, J. M. and M. L. Moss. 1999. The systematic use of radiocarbon dating in archaeological surveys in coastal and other erosional environments. *American Antiquity* 64 (1): 431–43.
- Evans, R. 1991. 'A Permanent Precedent': *Dispossession, Social Control and the Fraser Island Reserve and Mission, 1897–1904*. Ngulaig 5. Brisbane: Aboriginal and Torres Strait Islander Studies Unit, University of Queensland.
- Fairholme, J. K. E. 1856. The blacks of Moreton Bay and the porpoises. *Proceedings of the London Zoological Society* 24: 353–4.
- Fanning, P. and S. Holdaway. 2001. Temporal limits to the archaeological record in arid western NSW, Australia: lessons from OSL and radiocarbon dating of hearths and sediments. In M. Jones and P. Sheppard (eds), *Australasian Connections and New Directions: Proceedings of the 7th Australasian Archaeometry Conference*, pp. 85–104. Auckland: Department of Anthropology, University of Auckland.
- Findlay, J. L. 1979. Results of Research Completed on Lithic Material from Bagara, near Bundaberg, South-East Queensland. Unpublished report to Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Flinders, M. 1814. *A Voyage to Terra Australis*. 2 vols. London: G. and W. Nichol.
- Flood, J. 1980. *The Moth Hunters*. Canberra: Australian Institute of Aboriginal Studies.
- Flood, J. 1999. *Archaeology of the Dreamtime: The Story of Prehistoric Australia and its People*. 3rd ed. Sydney: Angus and Robertson.
- Flood, J., B. David, J. Magee and B. English. 1987. Birrigai: a Pleistocene site in the south-eastern highlands. *Archaeology in Oceania* 22 (1): 9–26.
- Flood, J. and N. Horsfall. 1986. Excavations of Green Ant and Echidna Shelters, Cape York Peninsula. *Queensland Archaeological Research* 3: 4–64.
- Francis, V. 1999. A Residue Analysis of a Sample of Stone Artefacts from the Southern Curtis Coast Region. Unpublished report submitted for ID233 Independent Project in Aboriginal and Torres Strait Islander Studies II. Brisbane: Aboriginal and Torres Strait Islander Studies Unit, University of Queensland.
- Frankel, D. 1993. Pleistocene chronological structures and explanations: a challenge. In M. A. Smith, M. Spriggs and B. Fankhauser (eds), *Sahul in Review: Pleistocene Archaeology in Australia, New Guinea and Island Melanesia*, pp. 24–33. Occasional Papers in Prehistory 24. Canberra: Department of Prehistory, Research School of Pacific Studies, Australian National University.
- Frankel, D. 1995. The Australian transition: real and perceived boundaries. *Antiquity* 69: 649–55.
- Frankland, K. 1990. Booral: A Preliminary Investigation of an Archaeological Site in the Great Sandy Region, Southeast Queensland. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Freeman, S. 1993. A Preliminary Analysis of the Glass Artefacts Found on the Onkaparinga River Estuary. Unpublished BA(Hons) thesis, Flinders University, Adelaide.
- Fresløv, J. and D. Frankel. 1999. Abundant fields?: a review of coastal archaeology in Victoria. In J. Hall and I. McNiven (eds), *Australian Coastal Archaeology*, pp. 239–54. Research Papers in Archaeology and Natural History 31. Canberra: Archaeology and Natural History Publications, Research School of Pacific and Asian Studies, Australian National University.
- Friedman, G. M. 1959. Identification of carbonate minerals by staining methods. *Journal of Sedimentary Petrology* 29 (1): 87–97.
- Fullagar, R. 1990. A reconstructed obsidian core from the Talasea excavations. *Australian Archaeology* 30: 79–80.
- Fullagar, R. and J. Field. 1997. Pleistocene seed-grinding implements from the Australian arid zone. *Antiquity* 71: 300–7.
- Fullagar, R., D. M. Price and L. M. Head. 1996. Early human occupation of northern Australia: archaeology and thermoluminescence dating of Jinmium rock-shelter, Northern Territory. *Antiquity* 70: 751–73.
- Gamble, C. 1993. People on the move: interpretations of regional variation in Palaeolithic Europe. In J. Chapman and P. Dolukhanov (eds), *Cultural Transformations and Interactions in Eastern Europe*, pp. 37–55. Aldershot: Avebury.
- Gaughwin, D. and R. Fullagar. 1995. Victorian offshore islands in a mainland coastal economy. *Australian Archaeology* 40: 38–50.

- Genever, M., J. Grindrod and B. Barker. 2003. Holocene palynology of Whitehaven Swamp, Whitsunday Island, Queensland, and implications for the regional archaeological record. *Palaeogeography, Palaeoclimatology, Palaeoecology* 201: 141–56.
- Gill, E. 1983. Australian sea levels in the last 15,000 years — Victoria, south-east Australia. In D. Hopley (ed.), *Australian Sea-Levels in the last 15000 Years: A Review*, pp. 59–63. Occasional Papers 3. Townsville: Department of Geography, James Cook University of North Queensland.
- Gillespie, R. 1975. The Suitability of Marine Shells for Radiocarbon Dating. Unpublished PhD thesis, University of Sydney, Sydney.
- Gillespie, R. 1977. Sydney University natural radiocarbon measurements IV. *Radiocarbon* 19: 101–10.
- Gillespie, R. 1982. *Radiocarbon Users Handbook*. North Ryde, NSW: Quaternary Research Unit, Macquarie University.
- Gillespie, R. 1991. The Australian marine shell correction factor. In R. Gillespie (ed.), *Quaternary Dating Workshop 1990*, p. 15. Canberra: Department of Biogeography and Geomorphology, Australian National University.
- Gillespie, R. and H. A. Polach. 1979. The suitability of marine shells for radiocarbon dating of Australian prehistory. In R. Berger and H. Suess (eds), *Proceedings of the Ninth International Conference on Radiocarbon Dating*, pp. 404–21. Los Angeles: University of California Press.
- Gillespie, R. and R. B. Temple. 1977. Radiocarbon dating of shell middens. *Archaeology and Physical Anthropology in Oceania* 12: 26–37.
- Gillieson, D. S. and J. Hall. 1982. Bevelling bungwall bashers: a use-wear study from southeast Queensland. *Australian Archaeology* 14: 43–61.
- Godfrey, M. C. S. 1989. Shell midden chronology in southwestern Victoria: reflections of change in prehistoric population and subsistence. *Archaeology in Oceania* 24 (2): 65–9.
- Godwin, L. 1990. Cultural heritage. In J. McCosker, Eurimbula National Park Draft Management Plan. Unpublished report to Queensland Department of Environment and Heritage, Rockhampton.
- Godwin, L. 1997. Little Big Men: alliance and schism in north-eastern New South Wales during the late Holocene. In P. McConvell and N. Evans (eds), *Archaeology and Linguistics: Aboriginal Australia in Global Perspective*, pp. 297–309. Melbourne: Oxford University Press.
- Godwin, L. and S. Ulm. 2004. Report on an Assessment of the Cultural Heritage Values Associated with the Proposed Burrumba Village, Buxton, Southeastern Queensland. Unpublished report to Neolido Pty Ltd. Rockhampton, QLD: Central Queensland Cultural Heritage Management Pty Ltd.
- Gorecki, P. 1991. Horticulturalists as hunter-gatherers: rock shelter usage in Papua New Guinea. In C. S. Gamble and W. A. Broismier (eds), *Ethnoarchaeological Approaches to Mobile Campsites*, pp. 237–62. Ann Arbor, MI: International Monographs in Prehistory.
- Gorecki, P. 1995. The Burnett Shire Council Aboriginal Heritage Study: Stage 1. UQASU Report 268. Brisbane: University of Queensland Archaeological Services Unit.
- Gowlett, J. A. J., R. E. M. Hedges, I. A. Law and C. Perry. 1987. Radiocarbon dates from the Oxford AMS system: archaeometry datelist 5. *Archaeometry* 29 (1): 125–55.
- Grant, E. 1993. *Grant's Guide to Fishes*. 6th ed. Scarborough, QLD: E. M. Grant.
- Growcott, V. and M. Taylor (eds) 1996 *A Short History of Miriam Vale Shire: The Birthplace of Queensland: From the Journals of Arthur Jeffery*. Miriam Vale, QLD: Miriam Vale Historical Society.
- Hale, H. and N. B. Tindale. 1930. Notes on some human remains in the Lower Murray Valley, South Australia. *Records of the South Australian Museum* 4: 145–218.
- Hall, J. 1980a. An Archaeological Assessment of the Alcan Smelter Site, Gladstone, Queensland. Unpublished report to James B. Croft and Associates, Sydney.
- Hall, J. 1980b. Minner Dint: a recent Aboriginal midden on Moreton Island, southeastern Queensland. In P.K. Lauer (ed.), *Occasional Papers in Anthropology* 10: 94–112. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Hall, J. 1981. An Archaeological Assessment of the Lend Lease Corporation Coke Plant near Gladstone, Queensland. Unpublished report to Oceanics Australia Pty Ltd.
- Hall, J. 1982. Sitting on the crop of the bay: an historical and archaeological sketch of Aboriginal settlement and subsistence in Moreton Bay, southeast Queensland. In S. Bowdler (ed.), *Coastal Archaeology in Eastern Australia: Proceedings of the 1980 Valla Conference on Australian Prehistory*, pp. 79–95. Occasional Papers in Prehistory 11. Canberra: Department of Prehistory, Research School of Pacific Studies, Australian National University.
- Hall, J. 1985. An Initial Archaeological Survey of the Proposed Bucca Weir, Kolan River, S.E. Queensland. Unpublished report to Gutteridge Haskins and Davey.
- Hall, J. 1999. The impact of sea level rise on the archaeological record of the Moreton region, southeast Queensland. In J. Hall and I. McNiven (eds), *Australian Coastal Archaeology*, pp. 169–84. Research Papers in Archaeology and Natural History 31. Canberra: Archaeology and Natural History Publications, Research School of Pacific and Asian Studies, Australian National University.

- Hall, J. 2000. Fishing for fish — no wallabies: an unusual marine intensification strategy for the late Holocene settlement of Moreton Island, southeast Queensland. In A. Anderson and T. Murray (eds), *Australian Archaeologist: Collected Papers in Honour of Jim Allen*, pp. 201–16. Canberra: Coombs Academic Publishing, Australian National University.
- Hall, J. and G. Bowen. 1989. An excavation of a midden complex at the Toulkerrie Oysterman's lease, Moreton Island, SE Queensland. *Queensland Archaeological Research* 6: 3–27.
- Hall, J., S. Higgins and R. Fullagar. 1989. Plant residues on stone tools: a case for fernroot processing in S.E. Queensland via starch grain analysis. In W. Beck, L. Head and A. Clarke (eds), *Plants in Australian Archaeology*, pp. 136–60. Tempus 1. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Hall, J. and P. Hiscock. 1988. The Moreton Regional Archaeological Project (MRAP) — Stage II: an outline of objectives and methods. *Queensland Archaeological Research* 5: 4–24.
- Hall, J. and I. Lilley. 1987. Excavation at the New Brisbane Airport site (LB:C69): evidence for early mid-Holocene coastal occupation in Moreton Bay, SE Queensland. *Queensland Archaeological Research* 4: 54–79.
- Hall, J. and I. McNiven (eds) 1999. *Australian Coastal Archaeology*. Research Papers in Archaeology and Natural History 31. Canberra: Archaeology and Natural History Publications, Research School of Pacific and Asian Studies, Australian National University.
- Hallam, S. 1977. Topographic archaeology and artifactual evidence. In R. V. S. Wright (ed.), *Stone Tools as Cultural Markers: Change, Evolution and Complexity*, pp. 169–77. Canberra: Australian Institute of Aboriginal Studies.
- Hamlyn-Harris, R. 1915. Notes on an exhibit of a small Aboriginal 'camp' collection from near Bundaberg. *Proceedings of the Royal Society of Queensland* 27 (2): 103–4.
- Hardy, B. and G. T. Garufi. 1998. Identification of woodworking on stone tools through residue and use-wear analyses: experimental results. *Journal of Archaeological Science* 25: 177–84.
- Hatte, E. 1992. Archaeological and Anthropological Investigations of the Proposed Route of the Fibre Optic Link: Bundaberg to Ban Ban Springs. Unpublished report to OVE ARUP and Partners.
- Hayne, M. and J. Chappell. 2001. Cyclone frequency during the last 5,000 yrs from Curacoa Island, Queensland. *Palaeogeography, Palaeoclimatology, Palaeoecology* 168: 201–19.
- Head, J., R. Jones and J. Allen. 1983. Calculation of the 'marine reservoir effect' from the dating of shell-charcoal paired samples from an Aboriginal midden on Great Glennie Island, Bass Strait. *Australian Archaeology* 17: 99–112.
- Head, L. 1983. Environment as artefact: a geographic perspective on the Holocene occupation of southwestern Victoria. *Archaeology in Oceania* 18 (2): 73–80.
- Head, L. 1986. Palaeoecological contributions to Australian prehistory. *Archaeology in Oceania* 21 (2): 121–9.
- Head, L. 1987. The Holocene prehistory of a coastal wetland system: Discovery Bay, southeastern Australia. *Human Ecology* 15 (4): 435–62.
- Hedley, C. 1904. Studies on Australian mollusca: part 8. *Proceedings of the Linnean Society of New South Wales* 29: 182–212.
- Hedley, C. 1906. The mollusca of Mast Head Reef, Capricorn Group, Queensland. *Proceedings of the Linnean Society of New South Wales* 31: 454–79.
- Hedley, C. 1915. Presidential address. *Proceedings of the Royal Society of New South Wales* 49: 1–77.
- Heinsohn, G. E. 1991. Dugongs. In R. Strahan (ed.), *The Australian Museum Complete Book of Australian Mammals*, pp. 474–6. North Ryde, NSW: Cornstalk Publishing.
- Higgins, S. 1988. Starch Grain Differentiation of Archaeological Residues: A Feasibility Study. Unpublished BA(Hons), Department of Anthropology and Sociology, University of Queensland.
- Higham, T. F. G. and A. G. Hogg. 1995. Radiocarbon dating of prehistoric shell from New Zealand and calculation of the ΔR value using fish otoliths. *Radiocarbon* 37: 409–16.
- Higham, T. F. G. and A. G. Hogg. 1997. Evidence for late Polynesian colonization of New Zealand: University of Waikato radiocarbon measurements. *Radiocarbon* 39: 149–92.
- Hill, I. W. 1978. An Archaeological Report on Boyne Island Sites and Road Corridors. Unpublished report to Archaeology Section, Department of Environment and Heritage, Brisbane.
- Hill, K. D. 1992. A preliminary account of *Cycas* (Cycadaceae) in Queensland. *Telopea* 5: 177–205.
- Hiscock, P. 1982. An Archaeological Assessment of Site 1, Awoonga Dam, Queensland. Unpublished report to Gladstone Area Water Board, Gladstone.
- Hiscock, P. 1986a. Technological change in the Hunter River Valley and its implications for the interpretation of late Holocene change in Australia. *Archaeology in Oceania* 21 (1): 40–50.
- Hiscock, P. 1986b. The conjoin sequence diagram: a method of describing conjoin sets. *Queensland Archaeological Research* 3: 159–66.
- Hiscock, P. 1988. Developing a relative dating system for the Moreton Region: an assessment of prospects for a technological approach. *Queensland Archaeological Research* 5: 113–32.

- Hiscock, P. 1993. Bondaian technology in the Hunter Valley, New South Wales. *Archaeology in Oceania* 28 (2): 65–76.
- Hiscock, P. 1994. Technological responses to risk in Holocene Australia. *Journal of World Prehistory* 8: 267–92.
- Hiscock, P. 1997. Archaeological evidence for environmental change in Darwin Harbour. In J. R. Hanley, G. Caswell, D. Megirian and H. K. Larson (eds), *Proceedings of the Sixth International Marine Biological Workshop: The Marine Flora and Fauna of Darwin Harbour, Northern Territory, Australia*, pp. 445–9. Darwin: Museums and Art Galleries of the Northern Territory and the Australian Marine Sciences Association.
- Hiscock, P. 2001. Late Australian. In *Encyclopedia of Prehistory*, pp. 132–49. New York: Plenum Press.
- Hiscock, P. in press. Australian point and core reduction viewed through refitting. In M. de Bie and U. Schurman (eds), *The Big Puzzle Revisited*. British Archaeological Reports.
- Hiscock, P. and V. Attenbrow. 1998. Early Holocene backed artefacts from Australia. *Archaeology in Oceania* 33 (2): 49–62.
- Hiscock, P. and P. Hughes. 2001. Prehistoric and World War II use of shell mounds in Darwin Harbour. *Australian Archaeology* 52: 41–5.
- Hlinka, V., S. Ulm, T. Loy and J. Hall. 2002. The genetic speciation of archaeological fish bone: a feasibility study from southeast Queensland. *Queensland Archaeological Research* 13: 71–8.
- Hofman, J. L. 1985. Middle Archaic ritual and shell midden archaeology: considering the significance of cremations. In T. R. Whyte, C. C. Boyd (Jr) and B. H. Riggs (eds), *Exploring Tennessee Prehistory*, pp. 1–27. Report of Investigations 42. Knoxville, TN: Department of Anthropology, University of Tennessee.
- Hofman, J. L. 1986. Vertical movements of artifacts in alluvial and stratified deposits. *Current Anthropology* 27: 163–71.
- Hofman, J. L. 1992. Putting the pieces together: an introduction to refitting. In J. L. Hofman and J. G. Enloe (eds), *Piecing Together the Past: Applications of Refitting Studies in Archaeology*, pp. 1–20. BAR International Series 578. Oxford: Tempvs Reparatum Archaeological and Historical Associates Limited.
- Hofman, J. L. and J. G. Enloe (eds) 1992. *Piecing Together the Past: Applications of Refitting Studies in Archaeology*. BAR International Series 578. Oxford: Tempvs Reparatum Archaeological and Historical Associates Limited.
- Hogg, A. G., T. F. G. Higham and J. Dahm. 1998. ¹⁴C dating of modern marine and estuarine shellfish. *Radiocarbon* 40: 975–84.
- Hogg, A. G., F. G. McCormac, T. F. G. Higham, P. J. Reimer, M. G. L. Baillie and J. G. Palmer. 2002. High-precision radiocarbon measurements of contemporaneous tree-ring dated wood from the British Isles and New Zealand: AD 1850–950. *Radiocarbon* 44 (3): 633–40.
- Holdaway, S., P. C. Fanning, M. Jones, J. Shiner, D. C. Witter and G. Nicholls. 2002. Variability in the chronology of late Holocene Aboriginal occupation on the arid margin of southeastern Australia. *Journal of Archaeological Science* 29: 351–63.
- Holdaway, S. and N. Porch. 1995. Cyclical patterns in the Pleistocene human occupation of southwest Tasmania. *Archaeology in Oceania* 30 (2): 74–82.
- Holdaway, S. and N. Porch. 1996. Dates as data: an alternative approach to the construction of chronologies for Pleistocene sites in southwest Tasmania. In J. Allen (ed.), *Report of the Southern Forests Archaeological Project: Site Descriptions, Stratigraphies and Chronologies*, pp. 251–77. Vol. 1. Bundoora, VIC: La Trobe University Archaeological Publications.
- Holdaway, S., D. Witter, P. Fanning, R. Musgrave, G. Cochrane, T. Doelman, S. Greenwood, D. Pigdon and J. Reeves. 1998. New approaches to open site spatial archaeology in Sturt National Park, New South Wales, Australia. *Archaeology in Oceania* 33 (1): 1–19.
- Hopley, D. 1983. Evidence of 15,000 years of sea level change in tropical Queensland. In D. Hopley (ed.), *Australian Sea-Levels in the Last 15000 Years: A Review*, pp. 93–104. Occasional Paper 3. Townsville: Department of Geography, James Cook University of North Queensland.
- Hopley, D. 1985. The Queensland coastline: attributes and issues. In J. H. Holmes (ed.), *Queensland: A Geographical Interpretation*, pp. 73–94. Brisbane: Booralong Publications.
- Horsfall, N. 1979. An Analysis of Some Stone Artifacts Collected near Bundaberg. Unpublished report to Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Horsfall, N. and J. Findlay. 1979. Eloueras from Southeast Queensland: Museum Collections as an Archaeological Resource. Unpublished report to Queensland Museum, Brisbane.
- Horsfall, N. 1987. Living in Rainforest: The Prehistoric Occupation of North Queensland's Humid Tropics. Unpublished PhD thesis, James Cook University, Townsville.
- Horton, D. (ed.) 1994. *The Encyclopaedia of Aboriginal Australia: Aboriginal and Torres Strait Islander History, Society and Culture*. Canberra: Aboriginal Studies Press.
- Hughes, P. J. and V. Djohadze. 1980. *Radiocarbon Dates from Archaeological Sites on the South Coast of New South Wales and the Use of Depth/Age Curves*. Occasional Papers in Prehistory 1. Canberra: Department of Prehistory, Australian National University.

- Hughes, P. J. and R. J. Lampert. 1977. Occupational disturbance and types of archaeological deposit. *Journal of Archaeological Science* 4: 35–40.
- Hughes, P. J. and R. J. Lampert. 1982. Prehistoric population change in southern coastal New South Wales. In S. Bowdler (ed.), *Coastal Archaeology in Eastern Australia: Proceedings of the 1980 Valla Conference on Australian Prehistory*, pp. 16–28. Occasional Papers in Prehistory 11. Canberra: Department of Prehistory, Research School of Pacific Studies, Australian National University.
- Hutchet, B. M. J. 1991. Conjoins and challenges: a rejoinder to Packard. *Australian Archaeology* 32: 45–7.
- Hutchings, P. and P. Saenger. 1987. *Ecology of Mangroves*. St Lucia, QLD: University of Queensland Press.
- Inglis, G. J. 1992. Population Ecology and Epibiosis of the Sydney Cockle *Anadara trapezia*. Unpublished PhD thesis, University of Sydney, Sydney.
- Ingram, B. L. 1998. Differences in radiocarbon age between shell and charcoal from a Holocene shellmound in northern California. *Quaternary Research* 49: 102–10.
- Ingram, B. L. and J. R. Southon. 1996. Reservoir ages in eastern Pacific coastal and estuarine waters. *Radiocarbon* 38: 573–82.
- Isaacs, J. 1987. *Bushfood: Aboriginal Food and Herbal Medicine*. Sydney: Ure Smith Press.
- Johnson, I. 1979. The Getting of Data: A Case Study from the Recent Industries of Australia. Unpublished PhD thesis, Research School of Pacific and Asian Studies, Department of Prehistory, Australian National University, Canberra.
- Jolly, L. 1994. *Gureng Gureng: A Language Program Feasibility Study*. Aboriginal and Torres Strait Islander Studies Unit Research Report Series 1. Brisbane: Aboriginal and Torres Strait Islander Studies Unit, University of Queensland.
- Jones, K. 1987. Cunning conjoins: methodological considerations in refitting stone flakes. In G. K. Ward (ed.), *Archaeology at ANZAAS Canberra*, pp. 198–202. Rev. ed. Canberra: Canberra Archaeological Society.
- Jones, M. and G. Nicholls. 2001. Reservoir offset models for radiocarbon calibration. *Radiocarbon* 43 (1): 119–24.
- Jones, R. 1977. The Tasmanian paradox. In R. V. S. Wright (ed.), *Stone Tools as Cultural Markers: Change, Evolution and Complexity*, pp. 189–204. Canberra: Australian Institute of Aboriginal Studies.
- Kelly, M. 1982. *A Practical Reference Source to Radiocarbon Dates Obtained from Archaeological Sites in Queensland*. Cultural Resource Management Monograph Series 4. Brisbane: Archaeology Branch, Department of Community Services.
- Kelly, R. and L. Todd. 1988. Coming into the country: early Paleoindian hunting and mobility. *American Antiquity* 53 (2): 231–44.
- Kennett, D. J., B. L. Ingram, J. M. Erlandson and P. L. Walker. 1997. Evidence for temporal fluctuations in marine radiocarbon reservoir ages in the Santa Barbara Channel, southern California. *Journal of Archaeological Science* 24: 1051–9.
- Kippis, A. 1814. *A Narrative of the Voyages Round the World*. London: Carpenter and Son.
- Kirch, P. V. 2001. A radiocarbon chronology for the Mussau Islands. In P. V. Kirch (ed.), *Lapita and its Transformations in Near Oceania: Archaeological Investigations in the Mussau Islands, Papua New Guinea, 1985–88*, pp. 196–236. Berkeley: Archaeological Research Facility, University of California at Berkeley.
- Knight, J. 1990. A broken Juin knife from Yandan Creek: some implications. *Archaeology in Oceania* 25 (2): 68–74.
- Knox, G. A. 1963. The biogeography and intertidal ecology of the Australasian coasts. *Oceanography and Marine Biology: An Annual Review* 1: 341–404.
- Koike, H. 1979. Seasonal dating and the valve-pairing technique in shell-midden analysis. *Journal of Archaeological Science* 6: 63–74.
- Krebs, J. R. 1989. *Ecological Methodology*. New York: Harper and Row.
- Lamb, J. 2003. The Raw and the Cooked: A Study on the Effects of Cooking on Three Aboriginal Plant Foods Native to Southeast Queensland. Unpublished BA(Hons) thesis, School of Social Science, University of Queensland, Brisbane.
- Lambeck, K. and M. Nakada. 1990. Late Pleistocene and Holocene sea-level change along the Australian coast. *Palaeogeography, Palaeoclimatology, Palaeoecology* 89: 143–76.
- Lampert, R. J. and P. J. Hughes. 1974. Sea level change and Aboriginal coastal adaptations in southern New South Wales. *Archaeology and Physical Anthropology in Oceania* 9 (3): 226–35.
- Lamprell, K. and J. Healy. 1998. *Bivalves of Australia*. Vol. 2. Leiden: Backhuys Publishers.
- Lamprell, K. and T. Whitehead. 1992. *Bivalves of Australia*. Vol. 1. Bathurst: Crawford House Press.
- Larcombe, P., R. M. Carter, J. Dye, M. K. Gagan and D. P. Johnson. 1995. New evidence for episodic post-glacial sea-level rise, central Great Barrier Reef, Australia. *Marine Geology* 127: 1–44.
- Larson, M. L. and E. E. Ingbar. 1992. Perspectives on refitting: critique and a complementary approach. In J. L. Hofman and J. G. Enloe (eds), *Piecing Together the Past: Applications of Refitting Studies in Archaeology*, pp. 151–62. BAR International Series 578. Oxford: Tempvs Reparatum Archaeological and Historical Associates Limited.

- Lauer, P. K. 1977. Report of a preliminary ethnohistorical and archaeological survey of Fraser Island. In P. K. Lauer (ed.), *Occasional Papers in Anthropology* 8: 1–38. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Lauer, P. K. 1979. The museum's role in fieldwork: the Fraser Island study. In P. K. Lauer (ed.), *Occasional Papers in Anthropology* 9: 31–72. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Leach, H. M. 1984. Jigsaw: reconstructive lithic technology. In J. E. Ericson and B. A. Purdy (eds), *Prehistoric Quarries and Lithic Production*, pp. 107–18. Cambridge: Cambridge University Press.
- Leavesley, M. and J. Allen. 1998. Dates, disturbance and artefact distributions: another analysis of Buang Merabak, a Pleistocene site on New Ireland, Papua New Guinea. *Archaeology in Oceania* 33 (2): 63–82.
- Lilley, I. 1980. Report on the Archaeological Impact of Proposed Development of the Awoonga Dam, Boyne River, Central Queensland. Unpublished report to Gladstone Area Water Board, Gladstone.
- Lilley, I. 1994a. An Archaeological Assessment of Proposed Sand-Mining on Middle Island, Coastal Central Queensland. UQASU Report 244. Brisbane: University of Queensland Archaeological Services Unit.
- Lilley, I. 1994b. A Summary Assessment of Aboriginal Cultural Heritage Values in the Proposed Walla Weir and Wallaville Bridge Impact Areas, Bundaberg, Southeast Queensland. Unpublished report to Kinhill Cameron McNamara Pty Ltd.
- Lilley, I. 1995a. An Archaeological Assessment of the Cultural Heritage Values of the Swindon Gold Prospect at Mt Rawdon, via Mt Perry, Central Queensland. Unpublished report to Placer Pacific Pty Ltd.
- Lilley, I. 1995b. An Archaeological Assessment of the Aboriginal Archaeological Impact of the Proposed Gold Mine at Mt Rawdon, Central Queensland. Unpublished report to Placer Pacific Pty Ltd.
- Lilley, I. 1995c. An Archaeological Assessment of the Aboriginal Cultural Heritage Values of the Proposed Mini Excavations Sand Extraction Project, Yarwun, Coastal Central Queensland. Unpublished report to Kinhill Cameron McNamara Pty Ltd.
- Lilley, I. 1995d. An Archaeological Assessment of the Cultural Heritage Values of the Proposed Perry River Dam, Mt Rawdon, Central Queensland. Unpublished report to Placer Pacific Pty Ltd.
- Lilley, I. 1995e. An Archaeological Assessment of the Cultural Heritage Values of the Proposed Agnes Water Sewage Treatment Plant and Irrigation Area, Agnes Water, Coastal Central Queensland. Unpublished report to Kinhill Cameron McNamara Pty Ltd.
- Lilley, I., D. Brian, C. Clarkson and S. Ulm. 1998. Pleistocene Aboriginal occupation at Cania Gorge, central Queensland: preliminary results of fieldwork. *Archaeology in Oceania* 33 (1): 28–31.
- Lilley, I., D. Brian and S. Ulm. 1999. The use of foraminifera in the identification and analysis of marine shell middens: a view from Australia. In M-J. Mountain and D. Bowdery (eds), *Taphonomy: The Analysis of Processes from Phytoliths to Megafauna*, pp. 9–16. Research Papers in Archaeology and Natural History 30. Canberra: Archaeology and Natural History Publications, Research School of Pacific and Asian Studies, Australian National University.
- Lilley, I. and J. Hall. 1988. An Archaeological Assessment of Northeastern Moreton Island. UQASU Report 126. Brisbane: University of Queensland Archaeological Services Unit.
- Lilley, I. and S. Ulm. 1995. The Gooreng Gooreng Cultural Heritage Project: some proposed directions and preliminary results of the archaeological program. *Australian Archaeology* 41: 11–5.
- Lilley, I. and S. Ulm. 1999. The Gooreng Gooreng Cultural Heritage Project: preliminary results of archaeological research, 1993–1997. *Queensland Archaeological Research* 11: 1–14.
- Lilley, I., S. Ulm and D. Brian. 1996. The Gooreng Gooreng Cultural Heritage Project: first radiocarbon determinations. *Australian Archaeology* 43: 38–40.
- Lilley, I., M. Williams and S. Ulm. 1997. The Gooreng Gooreng Cultural Heritage Project: A Report on National Estate Grants Program Research, 1995–1996. 2 vols. Unpublished report to Australian Heritage Commission, Canberra.
- Lindauer, O. 1992. Ceramic conjoinability: orphan sherds and reconstructing time. In J. L. Hofman and J. G. Enloe (eds), *Piecing Together the Past: Applications of Refitting Studies in Archaeology*, pp. 210–6. BAR International Series 578. Oxford: Tempvs Reparatum Archaeological and Historical Associates Limited.
- Little, E. A. 1993. Radiocarbon age calibration at archaeological sites of coastal Massachusetts and vicinity. *Journal of Archaeological Science* 20: 457–71.
- Longmore, M. E. 1997a. The mid-Holocene 'dry' anomaly on the mid-eastern coast of Australia: calibration of palaeowater depth as a surrogate for effective precipitation using sedimentary loss on ignition in the perched lake sediments of Fraser Island, Queensland. *Palaeoclimates* 4: 1–26.
- Longmore, M. E. 1997b. Quaternary palynological records from the perched lake sediments of Fraser Island, Queensland, Australia: rainforest, forest history and climatic control. *Australian Journal of Botany* 45: 507–26.
- Longmore, M. E. and H. Heijnis. 1999. Aridity in Australia: Pleistocene records of palaeohydrological and palaeoecological change from the perched lake sediments of Fraser Island, Queensland, Australia. *Quaternary International* 57/58: 35–47.

- Lourandos, H. 1980a. Forces of Change: Aboriginal Technology and Population in South-Western Victoria. Unpublished PhD thesis, Department of Anthropology, University of Sydney, Sydney.
- Lourandos, H. 1980b. Change or stability?: hydraulics, hunter-gatherers and population in temperate Australia. *World Archaeology* 11 (3): 245–64.
- Lourandos, H. 1983. Intensification: a late Pleistocene-Holocene archaeological sequence from southwestern Victoria. *Archaeology in Oceania* 18 (2): 81–94.
- Lourandos, H. 1985. Intensification and Australian prehistory. In T. D. Price and J. A. Brown (eds), *Prehistoric Hunter-Gatherers: The Emergence of Cultural Complexity*, pp. 385–423. Orlando: Academic Press.
- Lourandos, H. 1988. Palaeopolitics: resource intensification in Aboriginal Australia and Papua New Guinea. In T. Ingold, D. Riches and J. Woodburn (eds), *Hunters and Gatherers 1: History, Evolution and Social Change*, pp. 148–60. Vol. 1. New York: Berg.
- Lourandos, H. 1993. Hunter-gatherer cultural dynamics: long- and short-term trends in Australian prehistory. *Journal of Archaeological Research* 1 (1): 67–88.
- Lourandos, H. 1996. Change in Australian prehistory: scale, trends and frameworks of interpretation. In S. Ulm, I. Lilley and A. Ross (eds), *Australian Archaeology '95: Proceedings of the 1995 Australian Archaeological Association Annual Conference*, pp. 15–21. Tempus 6. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Lourandos, H. 1997. *Continent of Hunter-Gatherers: New Perspectives in Australian Prehistory*. Cambridge: Cambridge University Press.
- Lourandos, H. and B. David. 1998. Comparing long-term archaeological and environmental trends: north Queensland, arid and semi-arid Australia. *The Artefact* 21: 105–14.
- Lourandos, H. and A. Ross. 1994. The great 'intensification debate': its history and place in Australian archaeology. *Australian Archaeology* 39: 54–63.
- Loy, T. H. 1994. Methods in the analysis of starch residues on prehistoric stone tools. In J. G. Hather (ed.), *Tropical Archaeobotany: Applications and New Developments*, pp. 86–114. London: Routledge.
- Luebbers, R. A. 1978. Meals and Menus: A Study of Change in Prehistoric Coastal Settlements in South Australia. Unpublished PhD thesis, Research School of Pacific Studies, Australian National University, Canberra.
- Lupton, C. J. and M. J. Heidenreich. 1996. *A Fisheries Resource Assessment of the Baffle Creek System in the Wide Bay-Burnett Region of Queensland*. Department of Primary Industries Information Series QI96055(a). Brisbane: Department of Primary Industries.
- Lyman, R. L. 1994. *Vertebrate Taphonomy*. Cambridge: Cambridge University Press.
- MacGillivray, J. 1852. *Narrative of the Voyage of H.M.S. Rattlesnake*. London: T. and W. Boone.
- Mackenzie, E. 2002. Bushranger's Cave: A Technological Analysis in the Moreton Region of Southeast Queensland. Unpublished BA(Hons) thesis, School of Social Science, University of Queensland, Brisbane.
- Mangerud, J. 1972. Radiocarbon dating of marine shells, including a discussion of apparent ages of Recent shells from Norway. *Boreas* 1: 143–72.
- Mangerud, J. and S. Gulliksen. 1975. Apparent radiocarbon ages of recent marine shells from Norway, Spitsbergen, and arctic Canada. *Quaternary Research* 5: 263–73.
- Marks, E. N. 1970. A List of Bora Grounds in South-East Queensland. Unpublished report to Bornong Project.
- Marsh, H. and W. K. Saalfeld. 1989. The distribution and abundance of dugong in the southern Great Barrier Reef Marine Park. In H. Marsh (ed.), *Biological Basis for Managing Dugong and Other Large Vertebrates in the Great Barrier Reef Marine Park*. Research Publication 21. Townsville, QLD: Great Barrier Reef Marine Park Authority.
- Mathew, J. H. 1914. Note on the Gurang Gurang tribe of Queensland, with vocabulary. *Proceedings of the Australian Association for the Advancement of Science* 14: 433–43.
- Mathews, R. H. 1897. Rock carvings and paintings of the Australian Aborigines. *Proceedings of the American Philosophical Society* 36: 466–87.
- Mathews, R. H. 1910. Some rock pictures and ceremonial stones of the Australian Aborigines. *Report of the Twelfth Meeting of the Australasian Association for the Advancement of Science Held in Brisbane, 1909* 12: 493–8.
- Maynard, L. 1976. An Archaeological Approach to the Study of Australian Rock Art. Unpublished MA thesis, University of Sydney, Sydney.
- Maynard, L. 1979. The archaeology of Australian Aboriginal art. In S. M. Mead (ed.), *Exploring the Visual Art of Oceania: Australia, Melanesia, Micronesia and Polynesia*, pp. 83–110. Honolulu: University of Hawaii Press.
- McCormac, F. G., A. G. Hogg, T. F. G. Higham, M. G. L. Baillie, J. G. Palmer, L. Xiong, J. R. Pilcher, D. Brown and S. T. Hoper. 1998. Variations of radiocarbon in tree rings: southern hemisphere offset preliminary results. *Radiocarbon* 40 (3): 1153–9.
- McCormac, F. G., P. J. Reimer, A. G. Hogg, T. F. G. Higham, M. G. L. Baillie, J. Palmer and M. Stuiver. 2002. Calibration of the radiocarbon time scale for the southern hemisphere: AD 1850–950. *Radiocarbon* 44 (3): 641–51.

- McDonald, L. 1988. *Gladstone: City that Waited*. Brisbane: Boolarong Publications.
- McNiven, I. 1984. Initiating Archaeological Research in the Cooloola Region, Southeast Queensland. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- McNiven, I. 1985. An archaeological survey of the Cooloola region, S.E. Queensland. *Queensland Archaeological Research* 2: 4–37.
- McNiven, I. 1988. Brooyar Rockshelter: a late Holocene seasonal hunting camp from southeast Queensland. *Queensland Archaeological Research* 5: 133–60.
- McNiven, I. 1989. Aboriginal shell middens at the mouth of the Maroochy River, southeast Queensland. *Queensland Archaeological Research* 6: 28–52.
- McNiven, I. 1990a. Prehistoric Aboriginal Settlement and Subsistence in the Cooloola Region, Coastal Southeast Queensland. Unpublished PhD thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- McNiven, I. 1990b. Blowout taphonomy: non-cultural associations between faunal and stone artefact assemblages along the Cooloola coast, southeast Queensland. *Australian Archaeology* 31: 67–74.
- McNiven, I. 1991a. Teewah Beach: new evidence for Holocene coastal occupation in coastal southeast Queensland. *Australian Archaeology* 33: 14–27.
- McNiven, I. 1991b. Settlement and subsistence activities along Tin Can Bay, southeast Queensland. *Queensland Archaeological Research* 8: 85–107.
- McNiven, I. 1992a. Sandblow sites in the Great Sandy Region, coastal southeast Queensland: implications for models of late Holocene rainforest exploitation and settlement restructuring. *Queensland Archaeological Research* 9: 1–16.
- McNiven, I. 1992b. Bevel-edged tools from coastal southeast Queensland. *Antiquity* 66: 701–9.
- McNiven, I. 1993. Corroboree Beach, Fraser Island: Archaeological Survey and Management Recommendations. 3 vols. Unpublished report to Queensland Department of Environment and Heritage, Maryborough.
- McNiven, I. 1994a. *'Relics of a By-Gone Race?': Managing Aboriginal Sites in the Great Sandy Region*. Ngulaig 12. Brisbane: Aboriginal and Torres Strait Islander Studies Unit, University of Queensland.
- McNiven, I. 1994b. Technological organization and settlement in southwest Tasmania after the glacial maximum. *Antiquity* 68: 75–82.
- McNiven, I. 1998. Aboriginal archaeology of the Corroboree Beach dune field, Fraser Island: re-survey and re-assessment. *Memoirs of the Queensland Museum, Cultural Heritage Series* 1 (1): 1–22.
- McNiven, I. 1999. Fissioning and regionalisation: the social dimensions of changes in Aboriginal use of the Great Sandy Region, southeast Queensland. In J. Hall and I. McNiven (eds), *Australian Coastal Archaeology*, pp. 157–68. Research Papers in Archaeology and Natural History 31. Canberra: Archaeology and Natural History Publications, Research School of Pacific and Asian Studies, Australian National University.
- McNiven, I. 2003. Saltwater people: spiritscapes, maritime rituals and the archaeology of Australian indigenous seascapes. *World Archaeology* 35 (3): 329–49.
- McNiven, I. and R. Feldman. 2003. Ritually orchestrated seascapes: hunting magic and dugong bone mounds in Torres Strait, NE Australia. *Cambridge Archaeological Journal* 13 (2): 169–94.
- McNiven, I. and P. Hiscock. 1988. Small unifacial pebble cores from Fraser Island, southeast Queensland. *Queensland Archaeological Research* 5: 161–5.
- McNiven, I., I. Thomas and U. Zoppi. 2002. Fraser Island Archaeological Project (FIAP): background, aims and preliminary results of excavations at Waddy Point 1 Rockshelter. *Queensland Archaeological Research* 13: 1–20.
- Meehan, B. 1982. *Shell Bed to Shell Midden*. Canberra: Australian Institute of Aboriginal Studies.
- Meehan, B. 1988. The 'dinnertime camp'. In B. Meehan and R. Jones (eds), *Archaeology with Ethnography: An Australian Perspective*, pp. 171–81. Canberra: Department of Prehistory, Research School of Pacific Studies, Australian National University.
- Meltzer, D. J. and J. I. Mead. 1985. Dating Late Pleistocene extinctions: theoretical issues, analytical bias, and substantive results. In J. I. Mead and D. J. Meltzer (eds), *Environments and Extinctions: Man in Late Glacial North America*, pp. 145–73. Orono, ME: Centre for the Study of Early Man, University of Maine at Orono.
- Minnegal, M. 1982. Dugong Processing as an Archaeological Phenomenon: Evidence from a Small Complex of Sites at Princess Charlotte Bay, North Queensland. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Mitchell, S. 1993. Shell mound formation in northern Australia: a case study from Croker Island, northwestern Arnhem Land. *The Beagle, Records of the Northern Territory Museum of Arts and Sciences* 10 (1): 179–92.
- Morrison, M. 2003. Old boundaries and new horizons: the Weipa shell mounds reconsidered. *Archaeology in Oceania* 38 (1): 1–8.
- Morse, K. 1988. Mandu Mandu Creek rockshelter: Pleistocene human coastal occupation of North West Cape, Western Australia. *Archaeology in Oceania* 23 (3): 81–8.

- Morse, K. 1993. Who can see the sea?: prehistoric Aboriginal occupation of the Cape Range Peninsula. In W. F. Humphreys (ed.), *The Biogeography of Cape Range, Western Australia*, pp. 227–42. Records of the Western Australian Museum 45. Perth: Western Australian Museum.
- Morwood, M. 1979. Art and Stone: Towards a Prehistory of Central Western Queensland. Unpublished PhD thesis, Faculty of Arts, Department of Archaeology and Anthropology, Australian National University, Canberra.
- Morwood, M. 1981. Archaeology in the Central Queensland Highlands: the stone component. *Archaeology in Oceania* 16 (1): 1–52.
- Morwood, M. 1984. The prehistory of the central Queensland Highlands. *Advances in World Archaeology* 3: 325–79.
- Morwood, M. 1986. The archaeology of art: excavations at Gatton and Maidenwell Rockshelters, S.E. Queensland. *Queensland Archaeological Research* 3: 88–132.
- Morwood, M. 1987. The archaeology of social complexity in south-east Queensland. *Proceedings of the Prehistoric Society* 53: 337–50.
- Morwood, M. and D. Hobbs (eds) 1995. *Quinkan Prehistory: The Archaeology of Aboriginal Art in S.E. Cape York Peninsula, Australia*. Tempus 3. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Mowat, F. M. 1995. Variability in Western Arnhem Land Shell Midden Deposits. Unpublished MA thesis, Department of Anthropology, Northern Territory University, Darwin.
- Muckle, R. 1985. Archaeological Considerations of Bivalve Shell Taphonomy. Unpublished MA thesis, Department of Anthropology, Simon Fraser University, Vancouver.
- Mulvaney, D. 1969. *The Prehistory of Australia*. London: Thames and Hudson.
- Mulvaney, D. and J. Golson (eds) 1971. *Aboriginal Man and Environment in Australia*. Canberra: Australian National University Press.
- Mulvaney, J. and E. Joyce. 1965. Archaeological and geomorphological investigations on Mt. Moffat Station, Queensland, Australia. *Proceedings of the Prehistoric Society* 31: 147–212.
- Mulvaney, J. and J. Kamminga. 1999. *Prehistory of Australia*. St Leonards, NSW: Allen and Unwin.
- Murray-Jones, S. 1999. Conservation and conservation biology of the pipi, *Donax deltoides*. Unpublished PhD thesis, School of Biological Sciences, University of Wollongong, Wollongong.
- Murray-Wallace, C. V. 1996. Understanding ‘deep’ time — advances since Archbishop Ussher? *Archaeology in Oceania* 31 (3): 173–7.
- Murray-Wallace, C. V., A. G. Beu, G. W. Kendrick, L. J. Brown, A. P. Belperio and J. E. Sherwood. 2000. Palaeoclimatic implications of the occurrence of the arcoid bivalve *Anadara trapezia* (Deshayes) in the Quaternary of Australasia. *Quaternary Science Reviews* 19: 559–90.
- Neal, R. 1984. Rescue Archaeology near Blue Lake, North Stradbroke Island. Unpublished report to Associated Minerals Consolidated Ltd and the Archaeology Branch, Department of Community Services.
- Neal, R. 1986. Results of the Archaeological Inspection of Proposed Telecom DRCS and Broadband Locations for December 1986. Unpublished report to Telecom Australia.
- Neal, R. and E. Stock. 1986. Pleistocene occupation in the south-east Queensland coastal region. *Nature* 323: 618–21.
- Nicholson, A. and S. Cane. 1991. Desert camps: analysis of Australian Aboriginal proto-historic campsites. In C. S. Gamble and W. A. Broismier (eds), *Ethnoarchaeological Approaches to Mobile Campsites*, pp. 263–354. Ann Arbor, MI: International Monographs in Prehistory.
- Nicholson, A. and S. Cane. 1994. Pre-European coastal settlement and use of the sea. *Australian Archaeology* 39: 108–17.
- Nott, J. and M. Hayne. 2001. High frequency of ‘super cyclones’ along the Great Barrier Reef over the past 5,000 years. *Nature* 413: 508–12.
- O’Connor, S. 1999. *30,000 Years of Aboriginal Occupation: Kimberley, North West Australia*. Terra Australis 14. Canberra: Research School of Pacific and Asian Studies, Australian National University.
- O’Connor, S. and M. Sullivan. 1994a. Distinguishing middens and cheniers: a case study from the southern Kimberley, Western Australia. *Archaeology in Oceania* 29 (1): 16–28.
- O’Connor, S. and M. Sullivan. 1994b. Coastal archaeology in Australia; developments and new directions. *Australian Archaeology* 39: 87–96.
- Olsen, H.F. 1980a. Estuarine resource inventory and evaluation for the coastal strip between Round Hill Head and Tannum Sands, Queensland. In H. F. Olsen, R. M. Dowling and D. Bateman, *Biological Resources Investigation (Estuarine Inventory)*, pp. 1–44. Queensland Fisheries Service Research Bulletin 2. Brisbane: Queensland Fisheries Service.
- Olsen, H. F. 1980b. Sea-grasses (occurrence and distribution). In H. F. Olsen, R. M. Dowling and D. Bateman, *Biological Resources Investigation (Estuarine Inventory)*, pp. 91–4. Queensland Fisheries Service Research Bulletin 2. Brisbane: Queensland Fisheries Service.
- O’Sullivan, A. 2003. Place, memory and identity among estuarine fishing communities: interpreting the archaeology of early medieval fish weirs. *World Archaeology* 35 (3): 449–68.

- Oxley, J. 1825. Report of an expedition to survey Port Curtis, Moreton Bay and Port Bowen. In B. Field (ed.), *Geographical Memoirs of New South Wales*, pp. 1–26. London: John Murray.
- Parkington, J. and G. Mills. 1991. From space to place: the architecture and social organization of Southern African mobile communities. In C. S. Gamble and W. A. Broismier (eds), *Ethnoarchaeological Approaches to Mobile Campsites*, pp. 355–70. Ann Arbor, MI: International Monographs in Prehistory.
- Parkinson, S. 1773. *A Journal of a Voyage to the South Seas*. London: Stanfield Parkinson.
- Parry, W. J. and R. L. Kelly. 1987. Expedient core technology and sedentism. In J. K. Johnson and C. A. Morrow (eds), *The Organisation of Core Technology*, pp. 285–304. Boulder, CO: Westview Press.
- Peacock, E. 2000. Assessing bias in archaeological shell assemblages. *Journal of Field Archaeology* 27: 185–96.
- Peck, L. S. and T. Brey. 1996. Bomb signals in old Antarctic brachiopods. *Nature* 380: 207–8.
- Perry, T. M. and D. H. Simpson (eds) 1962. *Drawings by William Westall, Landscape Artist on Board H.M.S. Investigator during the Circum-Navigation of Australia by Captain Matthew Flinders, R.N., in 1801–1803*. London: Royal Commonwealth Society.
- Petrie, C. C. 1904. *Tom Petrie's Reminiscences of Early Queensland*. Brisbane: Watson, Ferguson and Co.
- Pettitt, P. B., W. Davies, C. S. Gamble and M. B. Richards. 2003. Palaeolithic radiocarbon chronology: quantifying our confidence beyond two half-lives. *Journal of Archaeological Science* 30: 1685–93.
- Phelan, M. B. 1999. A ΔR correction value for Samoa from known-age marine shells. *Radiocarbon* 41: 99–101.
- Phillips, P. and J. A. Brown. 1978. *Pre-Columbian Shell Engravings from the Craig Mound at Spiro, Oklahoma*. Cambridge, MS: Peabody Museum Press.
- Przywolnik, K. 2003. Shell artefacts from northern Cape Range Peninsula, northwest Western Australia. *Australian Archaeology* 56: 12–21.
- Pye, K. and E. G. Rhodes. 1985. Holocene development of an episodic transgressive dune barrier, Ramsay Bay, north Queensland, Australia. *Marine Geology* 64: 189–202.
- QDEH. 1994. *Curtis Coast Study: Resource Report*. Rockhampton, QLD: Queensland Department of Environment and Heritage.
- QDEH. 1997. *Vegetation of Rodds Peninsula [map]. 1cm–1km*. Rockhampton, QLD: Queensland Department of Environment and Heritage.
- QDOT. 1998. *The Official Tide Tables and Boating Safety Guide 1998*. Brisbane: Queensland Department of Transport.
- Quinn, R. H. and J. P. Beumer. 1984. Wallum Creek — a study of the regeneration of mangroves. In R. J. Coleman, J. Covacevich and P. Davie (eds), *Focus on Stradbroke: New Information on North Stradbroke Island and Surrounding Areas, 1974–1984*, pp. 238–59. Brisbane: Boolarong Publications.
- Quinnell, M. C. 1976. *Aboriginal Rock Art in Carnarvon Gorge, South Central Queensland*. Unpublished MA thesis, Department of Prehistory and Archaeology, University of New England, Armidale.
- Raven, P., R. Evert and S. Eichorn. 1999. *Biology of Plants*. 6th ed. New York: Worth Publishers.
- Reid, J. 1997. Results and Analysis of E1: An Investigation of the Archaeological Record of the Eurimbula Shell Midden Complex, Central Queensland Coast. Unpublished report submitted for ID232 Independent Project in Aboriginal and Torres Strait Islander Studies I. Brisbane: Aboriginal and Torres Strait Islander Studies Unit, University of Queensland.
- Reid, J. 1998. *An Archaeological Approach to Quarry Studies: A Technological Investigation of the Ironbark Site Complex, Southern Curtis Coast, Australia*. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Reid, J., M. Williams and S. Ulm. 2000. *An Archaeological Assessment of the Cultural Heritage Values of Lot 20, Captain Cook Drive, Town of Seventeen Seventy, Central Queensland*. UQASU Report 331. Brisbane: University of Queensland Archaeological Services Unit.
- Reimer, P. J. and R. W. Reimer. 2000. Marine reservoir correction database. Retrieved from <http://calib.org/marine>.
- Reimer, P. J. and R. W. Reimer. 2001. A marine reservoir correction database and on-line interface. *Radiocarbon* 43 (2A): 461–3.
- Reitz, E. J. and E. S. Wing. 1999. *Zooarchaeology*. Cambridge: Cambridge University Press.
- Rhodes, E. G., H. A. Polach, B. G. Thom and S. R. Wilson. 1980. Age structure of Holocene coastal sediments: Gulf of Carpentaria, Australia. *Radiocarbon* 22: 718–27.
- Richardson, N. 1992. Conjoin sets and stratigraphic integrity in a sandstone shelter: Kenniff Cave (Queensland, Australia). *Antiquity* 66: 408–18.
- Richardson, N. 1996. Seeing is believing: a graphical illustration of the vertical and horizontal distribution of conjoined artefacts using DesignCAD 3D. In S. Ulm, I. Lilley and A. Ross (eds), *Australian Archaeology '95: Proceedings of the 1995 Australian Archaeological Association Annual Conference*, pp. 81–95. Tempus 6. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Richter, J. 1994. *A Pound of Bungwall and Other Measures*. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.

- Rick, J. W. 1987. Dates as data: an examination of the Peruvian Preceramic radiocarbon record. *American Antiquity* 52 (1): 55–73.
- Ringland, P. 1978. Survey of Facing Island. Unpublished report to Archaeology Section, Department of Environment and Heritage, Brisbane.
- Roberts, A. C. 1991. An Analysis of Mound Formation at Milingimbi, N.T. Unpublished MLitt thesis, Department of Archaeology and Palaeoanthropology, University of New England, Armidale.
- Robertson, G. R. 1994. An Application of Scanning Electron Microscopy and Image Analysis to the Differentiation of Starch Grains in Archaeological Plant Residues. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Robins, R. P. 1983. This Widow Land: An Evaluation of Public Archaeology in Queensland using Moreton Island as a Case Study. Unpublished MA thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Robins, R. P. 1984. The excavation of three archaeological sites on Moreton Island: First Ridge and the Little Sandhills. *Queensland Archaeological Research* 1: 51–60.
- Robins, R. P. 1999. Clocks for rocks: an archaeological perspective on the Currawinya Lakes. In R.T. Kingsford (ed.), *A Free-Flowing River: The Ecology of the Paroo River*, pp. 150–78. Hurstville, NSW: National Parks and Wildlife Service.
- Robins, R. P. and E. C. Stock. 1990. The burning question: a study of molluscan remains from a midden on Moreton Island. In S. Solomon, I. Davidson and D. Watson (eds), *Problem Solving in Taphonomy: Archaeological and Palaeontological Studies from Europe, Africa and Oceania*, pp. 80–100. Tempus 2. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Robins, R. P., E. C. Stock and D. S. Trigger. 1998. Saltwater people, saltwater country: geomorphological, anthropological and archaeological investigations of the coastal lands in the southern Gulf country of Queensland. *Memoirs of the Queensland Museum, Cultural Heritage Series* 1 (1): 75–125.
- Robinson, S. W. and G. Thompson. 1981. Radiocarbon corrections for marine shell dates with application to southern Pacific Northwest Coast prehistory. *Syesis* 14: 45–57.
- Rola-Wojciechowski, C. 1983. 'A Bit of Bundy': The 'Bundaberg' Engraving Site. Unpublished BA(Hons) thesis, Department of Prehistory and Archaeology, University of New England, Armidale.
- Ross, A. 1981. Holocene environments and prehistoric site patterning in the Victorian Mallee. *Archaeology in Oceania* 16 (3): 145–54.
- Ross, A., B. Anderson and C. Campbell. 2003. Gunumbah: archaeological and Aboriginal meanings at a quarry site on Moreton Island, southeast Queensland. *Australian Archaeology* 57: 75–81.
- Ross, A. and S. Coghill. 2000. Conducting a community-based archaeological project: an archaeologist's and a Koenpul man's perspective. *Australian Aboriginal Studies* 1&2: 76–83.
- Ross, A., B. Coghill and S. Coghill. 2000. Results of the Lazaret Midden excavation on Peel Island in a landscape and seascape context. Unpublished paper presented at the Department of Sociology, Anthropology and Archaeology, University of Queensland, Brisbane.
- Ross, A. and R. Duffy. 2000. The creation of evidence: sieve size and the evidence for fishing in the Lazaret Midden, Peel Island, Moreton Bay. *Geoarchaeology* 15 (1): 21–41.
- Ross, J. 2002. Rocking the boundaries, scratching the surface: an analysis of the relationship between paintings and engravings in the central Australian arid zone. In S. Ulm, C. Westcott, J. Reid, A. Ross, I. Lilley, J. Prangnell and L. Kirkwood (eds), *Barriers, Borders, Boundaries: Proceedings of the 2001 Australian Archaeological Association Annual Conference*, pp. 83–9. Tempus 7. Brisbane: Anthropology Museum, University of Queensland.
- Roth, W. E. 1898. The Aborigines of the Rockhampton and Surrounding Districts, A Report to the Commissioner of Police. Unpublished manuscript, Mitchell Library, Sydney.
- Roth, W. E. 1904. *Domestic Implements, Arts, and Manufactures*. North Queensland Ethnography Bulletin 7. Brisbane: Department of Public Lands.
- Roth, W. E. 1909. *Fighting Weapons*. North Queensland Ethnography Bulletin 13. Brisbane: Department of Lands.
- Roughley, T. C. 1928. The Oyster Resources of Queensland. Unpublished report to Queensland Department of Harbours and Marine, Brisbane.
- Rowland, M. J. 1981. Radiocarbon dates for a shell fish-hook and disc from Mazie Bay, North Keppel Island. *Australian Archaeology* 12: 63–9.
- Rowland, M. J. 1982. Further radiocarbon dates from the Keppel Islands. *Australian Archaeology* 15: 43–8.
- Rowland, M. J. 1983. Aborigines and environment in Holocene Australia: changing paradigms. *Australian Aboriginal Studies* 2: 62–77.
- Rowland, M. J. 1985. Further radiocarbon dates from Mazie Bay, North Keppel Island. *Australian Archaeology* 21: 113–8.

- Rowland, M. J. 1986. The Whitsunday Islands: initial historical and archaeological observations and implications for future work. *Queensland Archaeological Research* 3: 72–87.
- Rowland, M. J. 1987. Preliminary Archaeological Survey of Coastal Areas of the Bundaberg 1:250,000 sheet (KE). Unpublished report to Queensland Department of Environment and Heritage, Brisbane.
- Rowland, M. J. 1989. Population increase, intensification or a result of preservation?: explaining site distribution patterns on the coast of Queensland. *Australian Aboriginal Studies* 2: 32–41.
- Rowland, M. J. 1992. Conservation Plan for Cultural Heritage Sites on the Keppel Island Group, Central Queensland. Unpublished report to Livingstone Shire Council and National Parks and Wildlife Branch, Division of Conservation, Department of Environment and Heritage, Brisbane.
- Rowland, M. J. 1994. Size isn't everything: shells in mounds, middens and natural deposits. *Australian Archaeology* 39: 118–24.
- Rowland, M. J. 1996. Prehistoric archaeology of the Great Barrier Reef Province — retrospect and prospect. In P. Veth and P. Hiscock (eds), *Archaeology of Northern Australia*, pp. 191–212. Tempus 4. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Rowland, M. J. 1999. Holocene environmental variability: Have its impacts been underestimated in Australian prehistory? *The Artefact* 22:11–48.
- Rowland, M. J. 2002. 'Crows', swimming logs and auditory exostoses: isolation on the Keppel Islands and broader implications. In S. Ulm, C. Westcott, J. Reid, A. Ross, I. Lilley, J. Prangnell and L. Kirkwood (eds), *Barriers, Borders, Boundaries: Proceedings of the 2001 Australian Archaeological Association Annual Conference*, pp. 61–74. Tempus 7. Brisbane: Anthropology Museum, University of Queensland.
- Sattler, P. S. 1999. Introduction. In P. S. Sattler and R. D. Williams (eds), *The Conservation Status of Queensland's Bioregional Ecosystems*, pp. 1–19. Brisbane: Environmental Protection Agency.
- Shanco, P and R. Timmins. 1975. Reconnaissance of southern Bustard Bay tidal wetlands. *Operculum* October: 149–54.
- Simpson, E. H. 1949. Measurement of diversity. *Nature* 163: 688.
- Singer, C. A. 1984. The 63-kilometre fit. In J. E. Ericson and B. A. Purdy (eds), *Prehistoric Quarries and Lithic Production*, pp. 35–48. Cambridge: Cambridge University Press.
- Smith, A. D. 1992. An Archaeological Site Location and Subsistence-Settlement Analysis of Bribie Island, Southeast Queensland. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Smith, A. D. 2003. Archaeological Spatial Variability on Bribie Island, Southeast Queensland. Unpublished MA thesis, School of Social Science, University of Queensland, Brisbane.
- Smith, M. 1996. Revisiting Pleistocene Macrozamia. *Australian Archaeology* 42: 52–3.
- Smith, M. 1999. Southwest Australian coastal economies: a new review. In J. Hall and I. McNiven (eds), *Australian Coastal Archaeology*, pp. 15–24. Research Papers in Archaeology and Natural History 31. Canberra: Archaeology and Natural History Publications, Research School of Pacific and Asian Studies, Australian National University.
- Smith, M. A. 1986. The antiquity of seedgrinding in central Australia. *Archaeology in Oceania* 21 (1): 29–39.
- Smith, M. A. 1993. Biogeography, human ecology and prehistory in the sandridge deserts. *Australian Archaeology* 37: 35–50.
- Smith, M. A. and N. D. Sharp. 1993. Pleistocene sites in Australia, New Guinea and island Melanesia: geographic and temporal structure of the archaeological record. In M. A. Smith, M. Spriggs and B. Fankhauser (eds), *Sahul in Review: Pleistocene Archaeology in Australia, New Guinea and Island Melanesia*, pp. 37–59. Occasional Papers in Prehistory 24. Canberra: Department of Prehistory, Research School of Pacific Studies, Australian National University.
- Smith, P. 1980. Letter to Kate Sutcliffe, Officer in Charge, Archaeology Branch, Department of Aboriginal and Islanders Advancement, 2 September 1980.
- Specht, J. 1985. Crabs as disturbance factors in tropical archaeological sites. *Australian Archaeology* 21: 11–8.
- Spencer, T. 1995. A Cultural Heritage Survey of Three Mining Lease Application Areas — Upper Burnett River near Monto Southern Queensland. Unpublished report to Lewis Environmental Consultants.
- Spennemann, D. H. R. and M. J. Head. 1996. Reservoir modification of radiocarbon signatures in coastal and near-shore waters of eastern Australia: the state of play. *Quaternary Australasia* 14 (1): 32–9.
- Spennemann, D. H. R. and M. J. Head. 1998. Togan pottery chronology, ¹⁴C dates and the hardwater effect. *Quaternary Geochronology* 17: 1047–56.
- Spriggs, M. and A. Anderson. 1993. Late colonization of East Polynesia. *Antiquity* 67: 200–17.
- Stein, J. K., J. Deo and L. Phillips. 2003. Big sites-short time: accumulation rates in archaeological sites. *Journal of Archaeological Science* 30: 297–316.
- Stern, N. 1980. Taphonomy: Some Observations about its Place in Archaeology. Unpublished BA(Hons) thesis, Department of Prehistoric and Historical Archaeology, University of Sydney, Sydney.

- Stevens, N. 1968. *Triassic Volcanic Rocks of Agnes Water, Queensland*. University of Queensland Papers, Department of Geology 6 (6): 147–55.
- Stockton, J. 1982. Stone wall fish-traps in Tasmania. *Australian Archaeology* 14: 107–14.
- Stone, T. 1989. Origins and environmental significance of shell and earth mounds in northern Australia. *Archaeology in Oceania* 24 (2): 59–64.
- Stone, T. 1992. Origins of the Weipa Shell Mounds. Unpublished MSc thesis, Australian National University, Canberra.
- Stone, T. 1995. Shell mound formation in coastal northern Australia. *Marine Geology* 129: 77–100.
- Stuiver, M. and T. F. Braziunas. 1993. Modeling atmospheric ^{14}C influences and ^{14}C ages of marine samples to 10,000 BC. *Radiocarbon* 35 (1): 137–89.
- Stuiver, M., G. W. Pearson and T. Braziunas. 1986. Radiocarbon age calibration of marine samples back to 9000 cal yr BP. *Radiocarbon* 28: 980–1021.
- Stuiver, M. and H. A. Polach. 1977. Discussion: reporting of ^{14}C data. *Radiocarbon* 19: 355–63.
- Stuiver, M. and P. J. Reimer. 1993. Extended ^{14}C data base and revised CALIB 3.0 ^{14}C age calibration program. *Radiocarbon* 35 (1): 215–30.
- Stuiver, M., P. J. Reimer, E. Bard, J. W. Beck, G. S. Burr, K. A. Hughen, B. Kromer, G. McCormac, J. van der Plicht and M. Spurk. 1998a. INTCAL98 Radiocarbon age calibration, 24,000–0 cal BP. *Radiocarbon* 40: 1041–83.
- Stuiver, M., P. J. Reimer and T. F. Braziunas. 1998b. High-precision radiocarbon age calibration for terrestrial and marine samples. *Radiocarbon* 40: 1127–51.
- Stuiver, M., P. J. Reimer and R. Reimer. 2002. CALIB manual. Retrieved from <http://depts.washington.edu/qil/calib/manual/index.html>.
- Sullivan, A. P., J. M. Skibo and M. Van Buren. 1991. Sherd refitting and the reconstruction of household ceramic technology. *North American Anthropologist* 12 (3): 243–55.
- Sullivan, G. E. 1961. Functional morphology, micro-anatomy, and histology of the 'Sydney cockle', *Anadara trapezia* (Deshayes) (Lamellibranchia: Archidae). *Australian Journal of Zoology* 9: 219–57.
- Sullivan, M. 1987. The recent prehistoric exploitation of edible mussel in Aboriginal shell middens in southern New South Wales. *Archaeology in Oceania* 22 (2): 97–106.
- Sullivan, M. and S. O'Connor. 1993. Middens and cheniers: implications for Australian research. *Antiquity* 67: 776–88.
- Sutcliffe, K. A. 1972. Removal of Rock Engravings from the Burnett River, Queensland. Unpublished MA thesis (Draft), Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Sutcliffe, K. A. 1974. Removal of Aboriginal Rock Engravings: Burnett River. *Anthropological Society of Queensland Newsletter* 65.
- Tanaka, N., M. C. Monaghan and D. M. Rye. 1986. Contribution of metabolic carbon to mollusc and barnacle shell carbonate. *Nature* 320: 520–3.
- Taylor, J. C. 1967. Race Relations in Southeast Queensland, 1840–1860. Unpublished BA(Hons) thesis, Department of History, University of Queensland, Brisbane.
- Taylor, R. E. 1987. *Radiocarbon Dating: An Archaeological Perspective*. New York: Academic Press.
- Taylor, R. E. 1997. Radiocarbon dating. In R. E. Taylor and M. J. Aitken (eds), *Chronometric Dating in Archaeology*, pp. 65–96. New York: Plenum Press.
- Thom, B. G., G. M. Bowman, R. Gillespie, R. Temple and M. Barbetti. 1981. *Radiocarbon Dating of Holocene Beach-Ridge Sequences in South-East Australia*. Monograph 11. Duntroon, NSW: Department of Geography, University of New South Wales at Royal Military College.
- Thom, B. G. and P. S. Roy. 1983. Sea-level change in New South Wales over the past 15,000 years. In D. Hopley (ed.), *Australian Sea-Levels in the Last 15000 Years: A Review*, pp. 64–84. Occasional Papers 3. Townsville: Department of Geography, James Cook University of North Queensland.
- Tindale, N. N. 1974. *Aboriginal Tribes of Australia*. Berkeley: University of California Press.
- Todd, L. C. and D. J. Stanford. 1992. Application of conjoined bone data to site structural studies. In J. L. Hofman and J. G. Enloe (eds), *Piecing Together the Past: Applications of Refitting Studies in Archaeology*, pp. 21–35. BAR International Series 578. Oxford: Tempvs Reparavm Archaeological and Historical Associates Limited.
- Ulm, S. 1995. Fishers, Gatherers and Hunters on the Moreton Fringe: Reconsidering the Prehistoric Aboriginal Marine Fishery in Southeast Queensland, Australia. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Ulm, S. 2000a. A Desktop Archaeological Assessment of the Cultural Heritage Values of the Aldoga Industrial Area, Gladstone State Development Area, Central Queensland. Unpublished report to Kinhill Pty Ltd, Milton.
- Ulm, S. 2000b. Evidence for early focussed marine resource exploitation from an open coastal site in central Queensland. *Australian Archaeology* 51: 66–7.

- Ulm, S. 2001. An Interim Desktop Assessment of the Cultural Heritage Values of the Proposed Cable and Wireless Optus Low-Impact Telecommunications Facility at Mt Alma, Central Queensland. UQASU Report 347. Brisbane: University of Queensland Archaeological Services Unit.
- Ulm, S. 2002a. Reassessing marine fishery intensification in southeast Queensland. *Queensland Archaeological Research* 13: 79–96.
- Ulm, S. 2002b. Marine and estuarine reservoir effects in central Queensland, Australia: determination of ΔR values. *Geoarchaeology* 17 (4): 319–48.
- Ulm, S. 2002c. The Seven Mile Creek Mound: new evidence for mid-Holocene Aboriginal marine resource exploitation in central Queensland. *Proceedings of the Royal Society of Queensland* 110: 121–6.
- Ulm, S. 2002d. Calibrating marine radiocarbon dates: A guide to Australian ΔR values. *AACAI Newsletter* 89:10–4.
- Ulm, S. 2004a. Investigations Towards a Late Holocene Archaeology of Aboriginal Lifeways on the Southern Curtis Coast, Australia. Unpublished PhD thesis, School of Social Science, University of Queensland, Brisbane.
- Ulm, S. 2004b. Themes in the archaeology of mid-to-late Holocene Australia. In T. Murray (ed.), *Archaeology from Australia*, pp. 187–208. Melbourne: Australian Scholarly Publishing.
- Ulm, S., B. Barker, A. Border, J. Hall, I. Lilley, I. McNiven, R. Neal and M. Rowland. 1995. Pre-European coastal settlement and use of the sea: a view from Queensland. *Australian Archaeology* 41: 24–6.
- Ulm, S., M. Carter, J. Reid and I. Lilley. 1999a. Eurimbula Site 1, Curtis Coast: site report. *Queensland Archaeological Research* 11: 105–22.
- Ulm, S., S. Cotter, M. Cotter, I. Lilley, C. Clarkson and J. Reid. 2005. Edge-ground hatchets on the southern Curtis Coast, central Queensland: a preliminary assessment of technology, chronology and provenance. In I. Macfarlane (ed.), *Many Exchanges: Archaeology, History, Community and the Work of Isabel McBryde*, pp. 323–342. Aboriginal History Monograph II. Canberra: Aboriginal History Inc.
- Ulm, S., T. Eales and S. L'Estrange. 1999b. Post-European Aboriginal occupation of the southern Curtis Coast, central Queensland. *Australian Archaeology* 48: 42–3.
- Ulm, S. and J. Hall. 1996. Radiocarbon and cultural chronologies in southeast Queensland prehistory. In S. Ulm, I. Lilley and A. Ross (eds), *Australian Archaeology '95: Proceedings of the 1995 Australian Archaeological Association Annual Conference*, pp. 45–62. Tempus 6. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Ulm, S. and I. Lilley. 1999. The archaeology of the southern Curtis Coast: an overview. *Queensland Archaeological Research* 11: 59–84.
- Ulm, S. and J. Reid. 2000. Index of dates from archaeological sites in Queensland. *Queensland Archaeological Research* 12: 1–129.
- Ulm, S. and J. Reid. 2004. Index of dates from archaeological sites in Queensland: Upgrade version 1.4. Retrieved from <http://www.atsis.uq.edu.au/resources/index-of-dates/index.html>.
- Vale, D. 2002. A Report on the Analysis of Archaeological Fishbone Assemblages Retrieved from Shell Midden Sites on the Southern Curtis Coast of Central Queensland. Unpublished report to Aboriginal and Torres Strait Islander Studies Unit, University of Queensland, Brisbane.
- Vale, D. 2004. A Report on the Analysis of Archaeological Fishbone Assemblages Retrieved from Shell Midden Sites on the Southern Curtis Coast of Central Queensland: Part II. Unpublished report to Aboriginal and Torres Strait Islander Studies Unit, University of Queensland, Brisbane.
- Vale, D. and R. Gargett. 2002. Size matters: 3-mm sieves do not increase richness in a fishbone assemblage from Arrawarra I, an Aboriginal Australian shell midden on the mid-north coast of New South Wales, Australia. *Journal of Archaeological Science* 29: 57–63.
- Vanderwal, R. L. 1978. Adaptive technology in southeast Tasmania. *Australian Archaeology* 8: 107–26.
- Veitch, B. 1996. Evidence for mid-Holocene change in the Mitchell Plateau, northwest Kimberley, Western Australia. In P. Veth and P. Hiscock (eds), *Archaeology of Northern Australia*, pp. 66–89. Tempus 4. St Lucia, QLD: Anthropology Museum, University of Queensland.
- Veitch, B. 1999. Shell middens on the Mitchell Plateau: a reflection of a wider phenomenon? In J. Hall and I. McNiven (eds), *Australian Coastal Archaeology*, pp. 51–64. Research Papers in Archaeology and Natural History 31. Canberra: Archaeology and Natural History Publications, Research School of Pacific and Asian Studies, Australian National University.
- Vernon, K. 1999. Post-Contact Cultural Continuity in Central Queensland: Bottle Bases and Retouched Glass Artefacts: A Use-Wear and Residue Analysis of Tom's Creek Glass Assemblage and the Ironbark Ridge Artefacts. Unpublished report submitted for ID233 Independent Project in Aboriginal and Torres Strait Islander Studies II. Brisbane: Aboriginal and Torres Strait Islander Studies Unit, University of Queensland.
- Veth, P. 1993. *Islands in the Interior: The Dynamics of Prehistoric Adaptations within the Arid Zone of Australia*. Ann Arbor, MI: International Monographs in Prehistory.
- Veth, P. 2003. 'Abandonment' or maintenance of country?: a critical examination of mobility patterns and implications for Native Title. *Land, Rights, Laws: Issues of Native Title* 2 (22): 1–8.

- Villa, P. 1982. Conjoinable pieces and site formation processes. *American Antiquity* 47 (2): 276–90.
- Walsh, G. L. 1984. *Managing the Archaeological Sites of the Sandstone Belt*. Rockhampton, QLD: Central Queensland Aboriginal Corporation for Cultural Activities and the Queensland National Parks and Wildlife Service.
- Walters, I. 1984. Gone to the dogs: a study of bone attrition at a central Australian campsite. *Mankind* 14 (5): 398–400.
- Walters, I. 1985. Bone loss: one explicit quantitative guess. *Current Anthropology* 26: 642–3.
- Walters, I. 1986. Another Kettle of Fish: The Prehistoric Moreton Bay Fishery. Unpublished PhD thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Walters, I. 1989. Intensified fishery production at Moreton Bay, southeast Queensland, in the late Holocene. *Antiquity* 63: 215–24.
- Walters, I. 1992a. Antiquity of marine fishing in south-east Queensland. *Queensland Archaeological Research* 9: 35–7.
- Walters, I. 1992b. Farmers and their fires, fishers and their fish: production and productivity in pre-European south-east Queensland. *Dialectical Anthropology* 17: 167–82.
- Walters, I. 1992c. Seasonality of fishing in south-east Queensland. *Queensland Archaeological Research* 9: 29–34.
- Walters, I. 2001. The Aboriginal Moreton Bay fishery: two things I still know — a response to Ross and Coghill. *Australian Aboriginal Studies* 2: 61–2.
- Walters, I., P. Lauer, A. Nolan, G. Dillon and M. Aird. 1987. Hope Island: salvage excavation of a Kombumerri site. *Queensland Archaeological Research* 4: 80–95.
- Walthall, J. A. 1998. Rockshelters and hunter-gatherer adaptation to the Pleistocene/Holocene transition. *American Antiquity* 63 (2): 223–38.
- Wang, H. and M. van Strydonck. 1997. Chronology of Holocene cheniers and oyster reefs on the coast of Bohai Bay, China. *Quaternary Research* 47: 192–205.
- Ward, G. K. 1994. On the use of radiometric determinations to 'date' archaeological events. *Australian Aboriginal Studies* 2: 106–9.
- Ward, G. K. and S. R. Wilson. 1978. Procedures for comparing and combining radiocarbon age determinations: a critique. *Archaeometry* 20: 19–31.
- Ward, W. T. and I. P. Little. 2000. Sea-rafted pumice on the Australian east coast: numerical classification and stratigraphy. *Australian Journal of Earth Sciences* 47 (1): 95–109.
- Watkins, G. 1891. Notes on the Aborigines of Stradbroke and Moreton Islands. *Proceedings of the Royal Society of Queensland* 8: 40–51.
- Westcott, C. 1997. A Technological Analysis of the Stone Assemblage from Big Foot Art Site, Cania Gorge. Unpublished BA(Hons) thesis, Department of Anthropology and Sociology, University of Queensland, Brisbane.
- Westcott, C., I. Lilley and S. Ulm. 1999a. The archaeology of Cania Gorge: an overview. *Queensland Archaeological Research* 11: 15–28.
- Westcott, C., I. Lilley, S. Ulm, C. Clarkson and D. Brian. 1999b. Big Foot Art Site, Cania Gorge: site report. *Queensland Archaeological Research* 11: 43–58.
- White, J. P. 1971. New Guinea and Australian prehistory: the 'Neolithic Problem'. In D. J. Mulvaney and J. Golson (eds), *Aboriginal Man and Environment in Australia*, pp. 182–95. Canberra: Australian National University Press.
- White, J. P. 1994. Australia: the different continent. In G. Burenhult (ed.), *People of the Stone Age: Hunter-Gatherers and Early Farmers*, pp. 206–25. Illustrated History of Humankind 2. St Lucia, QLD: University of Queensland Press.
- White, J. P. and J. F. O'Connell. 1982. *A Prehistory of Australia, New Guinea and Sahul*. North Ryde, NSW: Academic Press.
- Williams, E. 1988. *Complex Hunter-Gatherers: A Late Holocene Example from Temperate Australia*. BAR International Series 423. Oxford: British Archaeological Reports.
- Williams, M. 1981. Traditionally, My Country and its People. Unpublished MPhil (Qual.) thesis, Griffith University, Brisbane.
- Wilson, B. R. and K. Gillett. 1979. *A Field Guide to Australian Shells: Prosobranch Gastropods*. Frenchs Forest, NSW: Reed Books.
- Woodall, P. F. 1991. Eurimbula National Park excursion, 1989. *Queensland Naturalist* 30 (5–6): 110–1.
- Woodall, P. F., L. B. Woodall, K. Lamprell, D. Potter and T. Whitehead. 1991. Molluscs from Eurimbula National Park. *Queensland Naturalist* 30 (5–6): 112–4.
- Woodall, P. F., L. B. Woodall and T. Whitehead. 1993. Molluscs from Kinkuna and Deepwater National Parks, central coastal Queensland. *Queensland Naturalist* 32 (3–4): 66–70.
- Woodroffe, C. D., J. M. A. Chappell, B. G. Thom and E. Wallensky. 1986. *Geomorphological Dynamics and Evolution of the South Alligator Tidal River and Plains, Northern Territory*. Mangrove Monograph 3. Darwin: North Australian Research Unit, Australian National University.

- Woodroffe, C. D. and M. E. Mulrennan. 1993. *Geomorphology of the Lower Mary River Plains Northern Territory*. Darwin: Northern Australian Research Unit, Australian National University and Conservation Commission of the Northern Territory.
- Young, P. A. R. and H. A. Dillewaard. 1999. Southeast Queensland. In P. S. Sattler and R. D. Williams (eds), *The Conservation Status of Queensland's Bioregional Ecosystems*, pp. 12/1–12/75. Brisbane: Environmental Protection Agency.
- Zobel, D. E., R. L. Vanderwal and D. Frankel. 1984. The Moonlight Head Rockshelter. *Proceedings of the Royal Society of Victoria* 96: 1–24.

APPENDICES

Appendix 1: Radiocarbon dates: technical data

SITE	SQUARE	XU	DEPTH (cm)	LAB. NO.	SAMPLE	WEIGHT (g)	$\delta^{14}\text{C}$ (‰)	$\delta^{13}\text{C}$ (‰)	D ¹⁴ C (‰)	% MODERN	¹⁴ C AGE
Agnes Beach Midden	-	-	-	Wk-10969	charcoal	1.6	-36.7±8.5	-27.1±0.2	-32.6±10.4	96.7±1.0	266±87
Agnes Beach Midden	-	-	-	Wk-11280	<i>D. deltoides</i>	35.0	-30.4±4.6	0.8±0.2	-80.4±5.4	92.0±0.5	674±47
Elliott Heads	-	-	-	Wk-6994	<i>D. deltoides</i>	19.6	-0.2±6.1	-0.6±0.2	-49.1±7.1	95.1±0.7	400±60
Eurimbula Creek 1	C	6	14.9-18.3	Wk-7680	charcoal	3.4	-29.9±5.6	-26.1±0.2	-27.7±6.9	97.2±0.7	230±60
Eurimbula Creek 2	A	6	13.1-16.3	Wk-7689	charcoal	2.8	-22.1±6.5	-25.7±0.2	-20.8±8.0	97.9±0.8	modern ^a
Eurimbula Site 1	1	5	9.5	Wk-5601	charcoal	2.5	-30.8±7.6	-27.0±0.2	-26.9±9.3	97.3±0.9	220±80
Eurimbula Site 1	1 (Sl)	10	35	Wk-3944	<i>A. trapezia</i>	71.1	-219.8±4.5	-0.8±0.2	-257.6±5.2	74.2±0.5	2390±60
Eurimbula Site 1	1 (Sl)	10	35	Wk-5215	charcoal	2.1	-181.3±12.7	-25.3±0.2	-180.8±15.5	81.9±1.5	1600±160
Eurimbula Site 1	2	9	50	Wk-3945	charcoal	10.3	-315.3±4.4	-26.5±0.2	-313.3±5.3	68.7±0.5	3020±70
Eurimbula Site 1	3	7	28.4-34.1	Wk-8553	<i>A. trapezia</i>	20.2	-158.5±5.1	-0.6±0.2	-199.5±6.0	80.1±0.6	1790±60
Eurimbula Site 1	4	4	15-20	Wk-8554	<i>A. trapezia</i>	19.9	-19.6±5.4	-0.9±0.2	-66.9±6.2	93.3±0.6	560±55
Eurimbula Site 1	near 7	surface	0	Wk-3946	<i>A. trapezia</i>	90.7	-17.7±4.8	0.0±0.2	-66.8±5.6	93.3±0.6	560±50
Eurimbula Site 1	7	5	18.8-24	Wk-8555	<i>A. trapezia</i>	21.0	-3.9±5.9	-0.4±0.2	-52.8±6.9	94.7±0.7	440±60
Eurimbula Site 1	A	5	9.7-12.4	Wk-10967	charcoal	1.2	-46.1±11.8	-25.0±0.2	-46.1±14.3	95.4±1.4	379±121
Eurimbula Site 1	A	17	43.7-46.6	Wk-7688	charcoal	4.6	-258.2±5.0	-25.5±0.2	-257.5±6.1	74.2±0.6	2390±70
Eurimbula Site 1	B	12	34.4-38	Wk-10968	charcoal	1.3	-242.8±9.6	-26.0±0.2	-241.3±11.8	75.9±1.2	2218±126
Eurimbula Site 1	D	15	45.4-47.9	Wk-7687	charcoal	2.8	-291.5±7.6	-24.7±0.2	-291.9±9.3	70.8±0.9	2770±110
Gladstone 1	-	-	-	Wk-8456	<i>A. trapezia</i>	11.5	-8.0±4.9	0.3±0.2	-58.2±5.7	94.2±0.6	480±50
Gladstone 2	-	-	-	NZA-12119 ^b	<i>A. trapezia</i>	4.6	4.6±6.8	-0.8±0.2	-44.0±6.5	95.6±0.6	360±60
Ironbank Site Complex	M	4	5.4-10.5	Wk-6359	charcoal	4.4	-81.0±5.2	-26.9±0.2	-77.5±6.4	92.3±0.6	650±60
Ironbank Site Complex	M	9	22.9-28.1	Wk-6360	charcoal	4.1	-161.0±5.0	-25.7±0.2	-159.9±6.1	84.0±0.6	1400±60
Ironbank Site Complex	M	17	60-69.3	Wk-6361	charcoal	1.8	-186.2±12.3	-26.2±0.2	-184.3±15.0	81.6±1.5	1640±150
Ironbank Site Complex	O	9a	27.4	Wk-8556	<i>A. trapezia</i>	16.7	-60.7±5.4	-0.5±0.2	-106.7±6.3	89.3±0.6	910±55
Ironbank Site Complex	P	7	16.3	Wk-8557	charcoal	1.0	-26.9±13.8	-26.0±0.2	-25.1±16.8	97.5±1.7	200±140
Ironbank Site Complex	P	7	17.6	Wk-8558	<i>A. trapezia</i>	20.1	-22.8±6.1	-0.3±0.2	-71.1±7.1	92.9±0.7	590±60
Ironbank Site Complex	R	9	17.5-20.4	Wk-10964	charcoal	1.3	-38.9±8.6	-26.8±0.2	-35.5±10.5	96.4±1.1	290±89
Ironbank Site Complex	core	-	25-30	OZD-756 ^b	organics	-	-	-25 ^d	-	97.4±0.6	215±55
Middle Island Sandblow Site	A	1	0	Wk-7679	<i>D. deltoides</i>	35.0	-66.5±4.8	1.1±0.2	-115.2±5.5	88.5±0.6	980±50
Middle Island Sandblow Site	B	1	0	Wk-10091	<i>D. deltoides</i>	32.3	-37±3.9	0.9±0.2	-86.8±4.5	91.3±0.5	730±39
Middle Island Sandblow Site	C	1	0	Wk-10092	<i>D. deltoides</i>	34.1	-63.4±3.8	1.2±0.2	-112.4±4.5	88.8±0.4	958±40
Middle Island Sandblow Site	D	1	0	Wk-10093	<i>D. deltoides</i>	34.2	-16.2±4.2	0.9±0.2	-67.2±4.9	93.3±0.5	559±42

continued over

Appendix 1: continued

SITE	SQUARE	XU	DEPTH (cm)	LAB. NO.	SAMPLE	WEIGHT (g)	$\delta^{14}\text{C}$ (‰)	$\delta^{13}\text{C}$ (‰)	D ¹⁴ C (‰)	% MODERN	¹⁴ C AGE
Mort Creek Site Complex	A7	4	18-20	Wk-5602	<i>A. trapezia</i>	47.3	-0.3±0.2	-264.7±3.7	-301.0±4.3	69.9±0.4	2880±50
Mort Creek Site Complex	A7	6	22.6-26.7	Wk-3937	<i>A. trapezia</i>	75.2	0.1±0.2	-269.3±4.0	-305.9±4.7	69.4±0.5	2930±60
Mort Creek Site Complex	A7	9	32.4-37	Wk-3938	<i>A. trapezia</i>	81.2	0.1±0.2	-249.3±4.3	-286.9±5.0	71.3±0.5	2720±60
Mort Creek Site Complex	Granites	11C	45.5-52.1	Wk-3940	mixed shell ^c	66.7	0.7±0.2	-296.9±4.4	-333.1±5.1	66.7±0.5	3260±70
Mort Creek Site Complex	Granites	11M	45.5-52.1	Wk-3941	<i>A. trapezia</i>	71.3	-0.2±0.2	-246.4±4.5	-283.8±5.3	71.6±0.5	2680±60
Mort Creek Site Complex	WP	4	12.8-18.4	Wk-3942	<i>A. trapezia</i>	79.6	0.6±0.2	-222.2±5.7	-262.2±6.6	73.8±0.7	2440±80
Mort Creek Site Complex	WP	10	37.6-44.8	Wk-3943	<i>A. trapezia</i>	74.8	-0.5±0.2	-235.5±4.4	-273.4±5.1	72.7±0.5	2570±60
Mort Creek Site Complex	C	6	22	Wk-7458	charcoal	2.4	-26.5±0.2	-219.7±6.4	-217.5±7.8	78.3±0.8	1970±80
Mort Creek Site Complex	C	6	22	Wk-7836	<i>A. trapezia</i>	39.2	-1.4±0.2	-213.3±4.1	-250.4±4.8	75.0±0.5	2320±50
Mort Creek Site Complex	C	7	25	Wk-6987	<i>A. trapezia</i>	45.9	-1.5±0.2	-208.2±3.9	-245.3±4.6	75.5±0.5	2260±50
Mort Creek Site Complex	C	18	60	Wk-6988	<i>A. trapezia</i>	8.3	-1.1±0.2	-310.1±6.2	-343.1±7.1	65.7±0.7	3380±90
Mort Creek Site Complex	B	19-20	65	Wk-6986	<i>A. trapezia</i>	6.0	-1.6±0.2	-315.3±9.8	-347.3±11.3	65.3±1.1	3430±140
Pancake Creek Site Complex	A	9	14.3-18.6	Wk-7837	<i>A. trapezia</i>	35.6	-1.1±0.2	-34.3±5.2	-80.5±6.1	92.0±0.6	670±50
Pancake Creek Site Complex	E	7	25	Wk-6989	<i>A. trapezia</i>	5.4	-0.1±0.2	-55.0±12.1	-102.1±14.0	89.8±1.4	870±130
Pancake Creek Site Complex	F	6	25	Wk-6990	<i>A. trapezia</i>	13.9	-0.4±0.2	-27.8±6.3	-75.6±7.3	92.4±0.7	630±70
Pancake Creek Site Complex	G	8	31	Wk-6991	<i>A. trapezia</i>	34.9	0.5±0.2	-38.9±5.1	-87.8±5.9	91.2±0.6	740±60
Pancake Creek Site Complex	H	8	26	Wk-6992	<i>A. trapezia</i>	7.2	-0.3±0.2	-47.2±7.4	-94.3±8.6	90.6±0.9	800±80
Pancake Creek Site Complex	H	8	26	Wk-6993	charcoal	1.2	-26.8±0.2	-86.8±12.2	-83.5±15.0	91.7±1.5	700±140
Port Curtis 1	-	-	-	Wk-8457	<i>V. singaporina</i>	8.8	0.3±0.2	-5.6±6.1	-56.0±7.1	94.4±0.7	460±60
Port Curtis 2	-	-	-	NZA-12120 ^b	<i>V. singaporina</i>	1.7	0.9±0.2	-16.9±6.7	-67.9±6.4	93.2±0.6	570±60
Round Hill Creek Mound	-	-	-	Wk-10090	<i>A. trapezia</i>	37.7	-0.3±0.2	-170.6±3.5	-211.6±4.1	78.8±0.4	1910±42
Seven Mile Creek Mound	A	4	6.8-10.4	NZA-12272 ^b	charcoal	<0.1	-26.0±0.2	-146.4±8.5	-144.7±8.5	85.5±0.9	1260±80
Seven Mile Creek Mound	A	4	7.14	Wk-8324	<i>A. trapezia</i>	17.5	-0.9±0.2	-323.6±5.5	-356.2±6.4	64.4±0.6	3540±80
Seven Mile Creek Mound	A	13	39-43.6	NZA-12117 ^b	charcoal	<0.1	-25.7±0.2	-354.2±4.5	-353.3±4.5	64.7±0.5	3500±60
Seven Mile Creek Mound	A	13	40.4	Wk-8326	<i>A. trapezia</i>	19.5	-0.8±0.2	-329.8±4.9	-363.3±5.7	63.8±0.6	3610±70
Seven Mile Creek Mound	A	20	67.8	Wk-8327	<i>A. trapezia</i>	40.7	-1.2±0.2	-344.2±3.8	-375.4±4.4	62.5±0.4	3780±60
Seven Mile Creek Mound	A	20	67.8-71.5	NZA-12273 ^b	charcoal	0.1	-23.4±0.2	-356.6±4.6	-358.7±4.6	64.1±0.5	3570±60
Seven Mile Creek Mound	A	26	88.2	Wk-8328	<i>A. trapezia</i>	33.0	-0.5±0.2	-340.3±3.8	-372.7±4.4	62.7±0.4	3750±60
Seven Mile Creek Mound	A	26	88.7-92.2	NZA-12118 ^b	charcoal	0.2	-27.8±0.2	-369.0±4.4	-365.5±4.4	63.4±0.4	3660±60
Tom's Creek Site Complex	D	3	3.3	Wk-7682	<i>A. trapezia</i>	19.7	-1.2±0.2	-28.1±4.9	-74.4±5.7	92.6±0.6	620±50
Tom's Creek Site Complex	D	3	3.9	Wk-7681	charcoal	11.4	-27.2±0.2	-9.6±4.8	-5.1±5.9	99.5±0.6	modern ^a
Tom's Creek Site Complex	D	8	22.2-25.5	Wk-10966	charcoal	1.1	-25.7±0.2	-34.3±12.3	-32.9±14.9	96.7±1.5	269±125

continued over

Appendix 1: continued

SITE	SQUARE	XU	DEPTH (cm)	LAB. NO.	SAMPLE	WEIGHT (g)	$\delta^{14}\text{C}$ (‰)	$\delta^{13}\text{C}$ (‰)	D ¹⁴ C (‰)	% MODERN	¹⁴ C AGE
Tom's Creek Site Complex	D	15	50	Wk-7683	<i>A. trapezia</i>	26.7	-66.2±4.5	-1.2±0.2	-110.6±5.2	88.9±0.5	940±50
Tom's Creek Site Complex	D	17	55.7-60	Wk-7684	charcoal	3.2	-106.8±6.6	-26.8±0.2	-103.7±8.1	89.6±0.8	880±70
Tom's Creek Site Complex	D	18	59.5-64	Wk-7685	charcoal	3.3	-133.5±6.4	-27.5±0.2	-129.2±7.8	87.1±0.8	1110±70
Tom's Creek Site Complex	S	8	20.5-24	Wk-7686	charcoal	12.6	-65.1±3.9	-25.3±0.2	-64.5±4.8	93.5±0.5	540±50
Tom's Creek Site Complex	S	8	20.5-24	Wk-7838	<i>A. trapezia</i>	42.9	-29.1±5.3	-0.9±0.2	-75.9±6.1	92.4±0.6	630±50
Tom's Creek Site Complex	S	11	31.7-35	Wk-10965	charcoal	1.2	-127.1±10.2	-26.4±0.2	-124.7±12.4	87.5±1.2	1070±115
Tom's Creek Site Complex	S	-	62.5-67	NZA-13385 ^b	organics	30.69	-218±5.5	-26.2±0.2	-216.2±5.5	78.4±0.6	1956±57
Worthington Creek Midden	-	-	5	Wk-10089	<i>S. glomerata</i>	32.4	0.7±4.5	-3.4±0.2	-42.5±5.2	95.7±0.5	349±60

a The term 'modern' is applied for conventional radiocarbon ages of less than 200 years. Finite ages are problematic in this area of the radiocarbon time-scale owing to high levels of variability in radiocarbon activity in the atmosphere caused by the onset of the industrial revolution and atmospheric testing of thermonuclear devices. ¹⁴C ages between 0 and 200 could give ages anywhere from AD 1750 to AD 1950. After 1950, bomb ¹⁴C in the atmosphere causes a very rapid increase in sample ¹⁴C, peaking around 1965 (Alan Hogg, University of Waikato Radiocarbon Dating Laboratory, pers. comm., 1999).

b Accelerator Mass Spectrometry (AMS) determination. All other determinations were calculated using Liquid Scintillation Counting (LSC).

c Mixed shell consisting of *Saccostrea*, *Polynices*, *Nerita chamaeleon*, *Placamen calophyllum*, *Fragum hemisphaerium*, *Cymatium* sp., *Corbula* sp., *Antigona chemnitzii*, *Trisidos tortuosa*, *Tapes dorsatus*, *Meropesta* sp., *Pinctada* sp., *Trichomya hirsutus*, *Bembicium auratum*, *Calthalotia arruensis* and *Anadara trapezia*.

d Estimated value.

Appendix 2: Recorded archaeological sites on the southern Curtis Coast

SITE ID	SITE TYPE	RECORDER	LOCATION	DESCRIPTION
JE:A04	Stone Arrangement	G. Alfredson	24°00'43"S 151°28'30"E	Stone arrangement at the summit of Hummock Hill. Alfredson (1993) identified this site 'as a probable surveyor's trig point' although subsequent archival research failed to find any records. References: Alfredson (1993).
JE:A41	Shell Midden/ Artefact Scatter	H. Johnson	23°59'54"S 151°28'20"E	
JE:A42	Shell Midden	H. Johnson	24°02'18"S 151°29'29"E	
JE:A43	Shell Midden/ Artefact Scatter	H. Johnson	24°02'18"S 151°29'22"E	
JE:A60	Shell Midden	C. Burke	24°00'42"S 151°26'37"E	
JE:A61	Artefact Scatter	C. Burke	24°00'51"S 151°29'41"E	
JE:A62	Artefact Scatter	C. Burke	24°00'43"S 151°28'44"E	
JE:A63	Shell Midden	C. Burke	24°01'13"S 151°29'33"E	
JE:A64	Shell Midden	C. Burke	24°01'13"S 151°29'26"E	
JE:A65	Shell Midden	C. Burke	24°02'18"S 151°29'36"E	Shell mound with a depth of up to 40cm. Burke (1993) noted that only a small portion of the site had not been damaged by development activities and water erosion. References: Burke (1993).
JE:A66	Shell Midden	C. Burke	24°00'21"S 151°29'16"E	
JE:A70	Scarred Tree	M. Bird 24.2.1998	24°07'50"S 151°27'44"E	
KE:A05	Stone Quarry	P. Smith 1.11.1980 C. Burke 26.3.1993	24°14'09"S 151°56'10"E	Stone quarry on a silcrete outcrop (c.50m ²) within a granitic headland, adjacent to the coastline at Rocky Point. High density artefact exposure, including a backed blade, scraper, two hammerstones and many small flakes. Burke observed large numbers of artefacts during a 1993 visit, although Reid (1998) failed to identify any unambiguous artefacts during a 1998 visit and called into question the cultural status of the stone exposure. References: Burke (1993); Lilley et al. (1997); Reid (1998).
KE:A06	Axe Grinding Locality	P. Smith 1.11.1980	24°14'09"S 151°56'10"E	Grinding grooves in granite, on a headland adjacent to the coastline at Agnes Water, c.35m from KE:A05 (see above). This site could not be relocated during a field inspection in 1998. References: Reid (1998).
KE:A08	Shell Midden/ Artefact Scatter	R. Neal 25.6.1986	24°04'00"S 151°30'00"E	Sparse shell and stone artefact scatter exposed in sand vehicle tracks on a sloping dune adjacent to a rocky foreshore and mangrove swamp near Seven Mile Creek. Comprises mud ark (60%), whelk (20%) and oyster (20%), and artefacts manufactured on quartz (50%), rhyolite (40%) and black volcanic rock (10%). References: Neal (1986).
KE:A09	Shell Midden	R. Neal 25.6.1986	24°04'00"S 151°31'00"E	Shell midden spotted from the air on a beach ridge adjacent to Seven Mile Creek and bordered by a freshwater swamp. Rowland could not locate this site during a field inspection in 1986 and local informants suggested that it was quartz tailings from quarrying activities rather than a midden deposit. References: Neal (1986); Rowland (1987).
KE:A10	Shell Midden/ Artefact Scatter	M. Rowland A. Border 30.10.1986	24°11'00"S 151°52'00"E	Small, low density surface shell scatter in eroding foredunes and deflated dunes on the ocean beach just north of Agnes Water. Includes pipi, oyster, nerite and occasional stone artefacts. This site is probably the same as KE:A87 (see below). This site is dated on charcoal to 266±87 BP (Wk-10969). References: Lilley et al. (1997); Rowland (1987).

continued over

Appendix 2: continued

SITE ID	SITE TYPE	RECORDER	LOCATION	DESCRIPTION
KE:A11	Shell Midden	M. Rowland 30.10.1986 C. Burke 22.4.1993	24°10'58"S 151°52'47"E	Extensive shell midden complex bordering Round Hill Creek and bounded in the south by Tom's Creek, an eastern tributary of Round Hill Creek. Size not accurately determined owing to heavy vegetation. Material scattered on all 4WD tracks examined in the area. Maximum depth in all locations is 10–20cm. Predominantly mud ark and oyster, with some stone artefacts. Site complex covers a large area and probably subsumes the sites registered separately as KE:A33, KE:A62 and KE:A63 (see below). References: Burke (1993); Rowland (1987).
KE:A12	Stone Quarry/ Shell Midden/ Artefact Scatter	M. Rowland 1.11.1986 C. Burke 29.4.1993	24°09'00"S 151°53'04"E	Site consists of the entire Round Hill Head headland. Isolated stone artefacts and artefact scatters located along exposed walking tracks and ridges. Two large rhyolitic tuff boulders near the navigation beacon at the tip of the headland exhibit a number of negative flake scars. Some oyster shell and flaking debris is scattered in surrounding crevices. Elsewhere, scattered shell fragments and stone artefacts occur, including cobble cores. References: Burke (1993); Lilley et al. (1997); Rowland (1987).
KE:A16	Shell Midden	M. Rowland 24.7.1990 L. Godwin 4.10.1990 C. Burke 30.4.1993	24°12'10"S 151°51'56"E	Multi-component stratified shell mound at least 16m x 10m (c.160m ²) with a depth of more than 50cm, located in open woodland on a low rock terrace c.25m from Round Hill Creek. Extremely high density and spatially discrete shell deposit, dominated by mud ark, but also some oyster, stone artefacts, bone and charcoal. References: Burke (1993); Rowland (1987).
KE:A32	Contact Site/ Story Place	S. Davies 2.2.1994	24°20'20"S 151°34'00"E	Miriam Vale Homestead and Cattle Station built c.1856. Historic and contact site, located just southeast of the modern town of Miriam Vale. The station is the centre of religious and social affiliation to country for many Aboriginal families whose association to the Miriam Vale area spanned the pastoral occupation and into the distant past. This area was the location of several massacres and conflicts between white pastoralists, Native Mounted Police and Aborigines, including a major Aboriginal attack on 12 February 1857. After the establishment of the homestead and until the time of the attacks, local Aborigines had been employed on the station. An Aboriginal camp was situated on the southern bank of House Creek adjacent to the homestead. References: Clarkson et al. (n.d.); Davies (1994).
KE:A33	Shell Midden	C. Burke 22.4.1993	24°11'40"S 151°52'30"E	Large, stratified midden complex (c.100,000m ²) intermittently exposed over low dunes abutting the base of a rhyolitic scree slope on the northern junction of Round Hill and Tom's Creeks. Several low, sandy, residual ridges which exhibit dense midden exposures were also located on the adjacent mudflats. Dominated by mud ark and oyster with occasional other species, stone and flaked glass artefacts. Burke originally recorded part of this site as very sparse oyster and mud ark scatters (c.800m ²) exposed on and around 4WD tracks in open woodland in a gently inclined area 5–20m from mudflats bordering Tom's Creek. This site is dated on charcoal to 1,110±70 BP (Wk-7685). This site is probably part of the more extensive KE:A11 (see above). References: Burke (1993); Ulm (1999).
KE:A34	Shell Midden/ Artefact Scatter	C. Burke 27.1.1993	24°04'25"S 151°45'36"E	Very sparse, surface scatter of shell and stone artefacts (c.2,500m ²) located on a graded survey line on a sand ridge c.1km inland from the central east coast of Middle Island. Oyster (n=20), mud ark (n=10) and stone artefacts (n=3). References: Burke (1993).
KE:A35	Shell Midden	C. Burke 27.1.1993	24°06'49"S 151°46'19"E	Very sparse, surface shell scatter (c.20m ²) on top of a ridge on the southeast of Middle Island. Contains only 5 oyster fragments, no artefacts. This site is probably part of the larger site complex recorded by Lilley, registered as KE:A66 (see below). References: Burke (1993); Lilley (1994).
KE:A36	Shell Midden	C. Burke 27.1.1993	24°06'47"S 151°46'19"E	Very sparse, surface shell scatter (c.1m ²) consisting of only three oyster shells on the southeast of Middle Island. This site is probably part of the larger site complex recorded by Lilley, registered as KE:A66 (see below). References: Burke (1993); Lilley (1994).

continued over

Appendix 2: continued

SITE ID	SITE TYPE	RECORDER	LOCATION	DESCRIPTION
KE:A37	Shell Midden	C. Burke 30.1.1993	24°07'16"S 151°46'41"E	Sparse, surface shell scatter (c.1,500m ²) disturbed by construction activities, located on a dune ridge on the southeastern end of Middle Island. Dominated by oyster, but includes mud ark and mussel. This site is probably part of the larger site complex recorded by Lilley (1994), registered as KE:A66 (see below) and also exposed in the northern erosion bank of Middle Creek. References: Burke (1993); Lilley (1994); Lilley et al. (1997).
KE:A38	Shell Midden	C. Burke 30.1.1993	24°06'08"S 151°45'04"E	Sparse, surface shell scatter (c.2,000m ²) containing one stone artefact on a ridge on the southwest of Middle Island. This site is probably part of the larger site complex recorded by Lilley, registered as KE:A65 (see below). References: Burke (1993); Lilley (1994).
KE:A39	Shell Midden	C. Burke 6.3.1993	24°00'38"S 151°37'26"E	Sparse, surface shell scatter (c.50m ²) in an open area on a bank above the beach fronting Rodds Harbour on the northwestern end of Rodds Peninsula. Dominated by mud ark with some oyster and mussel. References: Burke (1993).
KE:A40	Shell Midden	C. Burke 6.3.1993	24°00'47"S 151°37'37"E	Very sparse, surface shell scatter (c.50m ²), 10m from beach fronting Rodds Harbour and 100m from the sea at low tide c.5m asl, on the northwestern end of Rodds Peninsula. Dominated by oyster with some mud ark. References: Burke (1993).
KE:A41	Shell Midden/ Artefact Scatter	C. Burke 6.3.1993	24°00'51"S 151°37'43"E	Extensive areas of natural shell deposits (cheniers), cultural shell midden deposits and a stone-walled tidal fishtrap located on the western bank of Mort Creek on the western coast of Rodds Peninsula. Shell exposures cover an area in excess of c.6,000m ² . Species include mud ark, oyster and whelk. Stone artefacts and fish bone noted in some excavations. This site is dated on shell to 3,430±140 BP (Wk-6986). References: Burke (1993); Carter (1997); Carter et al. (1999); Lilley et al. (1996); Lilley et al. (1997).
KE:A42	Shell Midden	C. Burke 7.3.1993	24°00'38"S 151°41'18"E	Sparse, stratified shell scatter (c.100m ²) on a ridge near Falls Creek on the central east coast of Rodds Peninsula. Includes oyster and turbo. Site located 500m from sea and rocks. References: Burke (1993).
KE:A43	Shell Midden	C. Burke 7.3.1993	24°03'24"S 151°41'48"E	Group of midden exposures (c.900m ²) located on low residual beach ridges stranded on mudflats at the western extremities of Pancake Creek consisting of a shallow, linear midden exposed in a low erosion bank and three sparse shell scatters. Includes oyster, mud ark, thaid, whelk and mussel. References: Burke (1993).
KE:A44	Shell Midden	C. Burke 9.3.1993	24°02'22"S 151°42'49"E	Large stratified shell midden (c.8,320m ²) on top of a ridge above the beach and mudflats on the northern bank of Pancake Creek, 100m to mudflats and 35m to a small tidal inlet. Dominated by mud ark and includes whelk and oyster to a depth of 5cm determined by auger. This site is dated on charcoal to 700±140 BP (Wk-6993). References: Burke (1993); Lilley et al. (1997); Ulm (1999).
KE:A45	Shell Midden/ Artefact Scatter	C. Burke 9.3.1993	24°02'21"S 151°42'50"E	Stratified linear shell midden (c.5,500m ²) located 50m from the sea and 5–10cm deep, and a shell scatter located 20–30m away from a small tidal inlet and beach flats on the northern bank of Pancake Creek. Dominated by mud ark and includes oyster and whelk, with a single stone artefact noted. This site is dated on charcoal to 700±140 BP (Wk-6993). References: Burke (1993); Lilley et al. (1997); Ulm (1999).
KE:A46	Shell Midden	C. Burke 9.3.1993	24°02'16"S 151°43'03"E	Linear stratified midden (c.7,140m ²) eroding from a creek bank 20m west of a tidal inlet on the northern bank of Pancake Creek. Shell lens is visible in the eroding profile for 238m and continues as a scatter on top of the dune for another 97m. Dominated by oyster and includes mud ark, whelk and charcoal. This site is dated on charcoal to 700±140 BP (Wk-6993). References: Burke (1993); Lilley et al. (1997); Ulm (1999).
KE:A47	Shell Midden	C. Burke 9.3.1993	24°02'05"S 151°43'15"E	Surface shell scatter (c.350m ²) on top of a beach ridge, 30m from mangroves and 15–20m from high water mark on the northern bank of Pancake Creek. Includes oyster, mud ark and thaid. Poor visibility. This site is dated on charcoal to 700±140 BP (Wk-6993). References: Burke (1993); Lilley et al. (1997); Ulm (1999).

continued over

Appendix 2: continued

SITE ID	SITE TYPE	RECORDER	LOCATION	DESCRIPTION
KE:A48	Shell Midden	C. Burke 9.3.1993	24°02'25"S 151°42'50"E	Surface shell scatter (c.1,200m ²) in front of a tidal inlet before mudflats at a shack, 100m from the northern shore of Pancake Creek. Includes oyster, mud ark and whelk. This site is dated on charcoal to 700±140 BP (Wk-6993). References: Burke (1993); Lilley et al. (1997); Ulm (1999).
KE:A49	Shell Midden	C. Burke 25.3.1993	24°11'54"S 151°51'33"E	Burke (1993) recorded three surface shell scatters (c.1,000m ²) located on the eroding western bank of Round Hill Creek. Includes oyster, mud ark and whelk. Ulm et al. (1999) considered this to be part of the extensive Eurimbula Site 1. This site is dated on charcoal to 3,020±70 BP (Wk-3945). References: Burke (1993); Godwin (1990); Lilley et al. (1996); Lilley et al. (1997); Ulm et al. (1999).
KE:A50	Shell Midden	C. Burke 25.3.1993	24°11'44"S 151°51'40"E	Burke (1993) recorded one linear stratified midden (c.100m ²) exposed 5–10cm deep and two surface shell scatters (c.100m ²) located on the eroding western bank of Round Hill Creek. Some shell is eroding out of the bank. Includes oyster and mud ark. Ulm et al. (1999) considered this to be part of the extensive Eurimbula Site 1. This site is dated on charcoal to 3,020±70 BP (Wk-3945). References: Burke (1993); Godwin (1990); Lilley et al. (1996); Lilley et al. (1997); Ulm et al. (1999).
KE:A51	Shell Midden	C. Burke 25.3.1993	24°11'35"S 151°51'42"E	Burke (1993) recorded two shell scatters (c.200m ²) on the western bank of Round Hill Creek exposed on the surface and up to 30cm deep in the erosion section. Dense <i>in situ</i> deposit of mud ark and oyster. Ulm et al. (1999) considered this to be part of the extensive Eurimbula Site 1. This site is dated on charcoal to 3,020±70 BP (Wk-3945). References: Burke (1993); Godwin (1990); Lilley et al. (1996); Lilley et al. (1997); Ulm et al. (1999).
KE:A52	Shell Midden	C. Burke 25.3.1993	24°11'28"S 151°51'45"E	Burke (1993) recorded six shell scatters (c.2,000m ²), including linear stratified deposits up to 10cm deep, on the western bank of Round Hill Creek. Dominated by mud ark with some shell eroding out of section, up to 5cm deep. Ulm et al. (1999) considered this to be part of the extensive Eurimbula Site 1. This site is dated on charcoal to 3,020±70 BP (Wk-3945). References: Burke (1993); Godwin (1990); Lilley et al. (1996); Lilley et al. (1997); Ulm et al. (1999).
KE:A53	Shell Midden	C. Burke 26.3.1993	24°11'04"S 151°51'56"E	Burke (1993) recorded three surface shell scatters (c.450m ²) on top of a sand ridge adjacent to Round Hill Creek. Dominated by mud ark with a single large core of granite-like material noted. Ulm et al. (1999) considered this to be part of the extensive Eurimbula Site 1. This site is dated on charcoal to 3,020±70 BP (Wk-3945). References: Burke (1993); Godwin (1990); Lilley et al. (1996); Lilley et al. (1997); Ulm et al. (1999).
KE:A54	Shell Midden	C. Burke 26.3.1993	24°10'56"S 151°51'50"E	Burke (1993) recorded two surface shell scatters on top of a sand ridge and on a tidal flat (c.700m ²), and a linear stratified deposit (c.750m ²) on a sand ridge adjacent to Round Hill Creek. Dominated by mud ark and includes oyster. Ulm et al. (1999) considered this to be part of the extensive Eurimbula Site 1. This site is dated on charcoal to 3,020±70 BP (Wk-3945). References: Burke (1993); Godwin (1990); Lilley et al. (1996); Lilley et al. (1997); Ulm et al. (1999).
KE:A55	Shell Midden/ Artefact Scatter	C. Burke 1.6.1993	24°01'00"S 151°45'46"E	Sparse scatter of oyster shell including 7 stone artefacts (c.400m ²), located on the northern side of Bustard Head. Raw materials may not be local. References: Burke (1993).
KE:A56	Shell Midden	C. Burke 21.4.1993	24°02'31"S 151°33'54"E	Low density surface shell scatter (c.70m ²) located in an open, gently sloping area 10m from the beach on the western side of Innes Head, on the eastern bank of Seven Mile Creek. Dominated by oyster and includes mussel. References: Burke (1993).
KE:A57	Shell Midden/ Artefact Scatter	C. Burke 22.4.1993	24°05'10"S 151°38'52"E	Three small surface shell scatters (c.70m ²) located on and around a graded dirt road c.50m from mangroves, on the eastern edge of an unnamed embayment on the western side of the Turkey Beach peninsula. Dominated by mud ark and includes oyster and a single white quartz flaked piece. References: Burke (1993).
KE:A58	Artefact Scatter	C. Burke 22.4.1993	24°05'44"S 151°38'10"E	Isolated stone artefact manufactured on banded chert located on mudflats on the eastern edge of an unnamed embayment on the western side of the Turkey Beach peninsula, c.50m from mangroves. References: Burke (1993).

continued over

Appendix 2: continued

SITE ID	SITE TYPE	RECORDER	LOCATION	DESCRIPTION
KE:A59	Shell Midden/ Artefact Scatter	C. Burke 1.6.1993	24°01'56"S 151°44'40"E	Very sparse surface shell scatter (c.24,000m ²), including one quartz flaked piece, located on the edge of mudflats on the Jenny Lind Creek side of Bustard Head. Dominated by mud ark and oyster and includes whelk. References: Burke (1993).
KE:A60	Scarred Tree	C. Burke 30.4.1993	24°12'51"S 151°54'16"E	Scarred tree located in the centre of Agnes Water. Scar is located on a large eucalyptus tree (Queensland blue gum or Moreton Bay ash). Scar measures 250cm x 46cm. References: Burke (1993); Lilley et al. (1997).
KE:A61	Shell Midden	C. Burke 17.5.1993	24°01'56"S 151°44'40"E	Fairly dense discrete stratified shell midden with depth of 10cm, located on the eastern bank of Round Hill Creek, c.100m southeast of KE:A16 (see above). Dominated by mud ark. Site damaged by bulldozer activity. References: Burke (1993); Lilley et al. (1997).
KE:A62	Shell Midden/ Artefact Scatter	C. Burke 22.5.1993	24°10'57"S 151°52'53"E	Linear stratified midden (c.4,200m ²) with <i>in situ</i> lens of shell c.50cm below ground surface and up to 10cm thick. Subsurface material exposed in a large excavation behind the sewage treatment depot. Dominated by mud ark and includes oyster and stone artefacts manufactured on a variety of raw materials. This site is probably part of the more extensive KE:A11 (see above). References: Burke (1993).
KE:A63	Shell Midden	C. Burke 22.5.1993	24°11'10"S 151°52'33"E	Very sparse surface scatter (c.400m ²) of mud ark and oyster shell located on either side of a 4WD track. This site is probably part of the more extensive KE:A11 (see above). References: Burke (1993).
KE:A64	Shell Midden/ Artefact Scatter	I. Lilley 10.4.1994	24°04'10"S 151°43'35"E	Shell midden complex (c.200,000m ²) up to 15cm deep on the central west coast of Middle Island. Dominated by mud ark and includes oyster and a quartz flake. Located in low swampy melaleuca shrubland adjacent to mudflats on a tidal creek. References: Lilley (1994).
KE:A65	Shell Midden	I. Lilley 10.4.1994	24°05'30"S 151°45'00"E	Shell midden complex (c.800,000m ²) located on high north-south trending dunes extending for c.7km along the central western side of Middle Island. Comprises mud ark, oyster, pipi and whelk. References: Lilley (1994).
KE:A66	Shell Midden/ Artefact Scatter	I. Lilley 10.4.1994	24°06'00"S 151°44'30"E	Shell midden complex (c.800,000m ²) located on high north-south trending dunes extending for c.5km along the central eastern side of Middle Island. Comprises mud ark, oyster and pipi as well as a quartz core. References: Lilley (1994).
KE:A67	Shell Midden	I. Lilley 10.4.1994	24°03'44"S 151°45'56"E	Shell midden complex (c.140,000m ²) dominated by pipi up to 15cm deep on parabolic dunes and sandblows on the northeastern end of Middle Island, bordered in the north and west by Jenny Lind Creek. This site is dated on shell to 980±50 BP (Wk-7679). References: Lilley (1994); Lilley et al. (1997); Ulm (1999).
KE:A87	Shell Midden/ Artefact Scatter	S. Ulm	24°12'15"S 151°54'11"E	Low density scatter of shell and stone artefacts located in a small blowout in the frontal dunes and bordered to the west by a 2m high wire fence. The exposure covers an area of 31m x 12m (372m ²). Maximum densities of 30 shell fragments/m ² , including oyster and mud ark, and 5 stone artefacts/m ² , including quartz, chert and rhyolitic tuff. This site is probably the same as KE:A10 (see above). This site is dated on charcoal to 266±87 BP (Wk-10969). References: Lilley et al. (1997); Rowland (1987).
KE:A88	Shell Midden/ Artefact Scatter	S. Ulm	24°12'21"S 151°54'15"E	Sparse scatter of oyster and pipi fragments eroding out of frontal dunes c.50cm below ground surface. One stone artefact noted, probably manufactured on rhyolitic tuff. References: Lilley et al. (1997).
KE:A89	Shell Midden/ Artefact Scatter	S. Ulm	24°12'22"S 151°54'15"E	Minor scatter of oyster and pipi with one stone artefact located c.20m south of KE:A88 (see above). References: Lilley et al. (1997).
KE:A90	Shell Midden	S. Ulm	24°12'23"S 151°54'15"E	Minor scatter of 12 oyster fragments adjacent to access path to beach, located c.50m south of KE:A89 (see above). References: Lilley et al. (1997).
KE:A91	Shell Midden	S. Ulm	24°10'39"S 151°50'34"E	Sparse shell scatter on southern edge of mangrove fringe of Eurimbula Creek, including whelk, mud ark and pipi. A water-rounded rock was located 20m south of the shell. References: Lilley et al. (1997).

continued over

Appendix 2: continued

SITE ID	SITE TYPE	RECORDER	LOCATION	DESCRIPTION
KE:A92	Shell Midden/ Artefact Scatter	S. Ulm	24°11'00"S 151°49'30"E	Extensive surface scatter of shell and stone artefacts visible on Eurimbula Creek 4WD access track. Bracken fern fringes the track on both sides making it difficult to determine the extent of the scatter owing to lack of visibility. Includes flakes, flaked pieces, cores and manuports manufactured on rhyolitic tuff, quartz and indurated mudstone. Includes mud ark and oyster. References: Lilley et al. (1997).
KE:A93	Shell Midden/ Artefact Scatter	S. Ulm	24°14'24"S 151°56'27"E	Low density shell and stone artefact deposit eroding from subsurface lens. Includes oyster, nerite, mud ark and whelk. Twelve stone artefacts noted including rhyolitic tuff and silcrete. References: Lilley et al. (1997).
KE:A94	Artefact Scatter	S. Ulm	24°14'30"S 151°56'30"E	Stone artefact scatter on 4WD road shoulder on headland. Artefacts manufactured on rhyolitic tuff found eroding out of a nearby road cutting up to 60cm below ground surface. Cores, flakes, flaked pieces, grinding stone made on indurated mudstone, rhyolitic tuff, silcrete, quartz and quartzite. Some retouched artefacts. References: Lilley et al. (1997).
KE:A95	Shell Midden	S. Ulm	24°14'37"S 151°56'36"E	Discrete scatter of oyster lids and bases eroding down orange-yellow dune face covering an area of c.10m ² . Shell densities of up to 28 oyster fragments/m ² . Six unmodified blocks of stone are associated with the shell material. Purple colouration on some oyster valves suggests a recent, perhaps non-Aboriginal, origin. References: Lilley et al. (1997).
KE:A96	Hearth	S. Ulm	24°14'40"S 151°56'34"E	Hearth feature located c.30m south of KE:A94 (see above). Five unmodified blocks of silcrete arranged in a rough circle 46cm x 33cm. No artefactual material is associated with the feature. Possible non-Aboriginal origin. Reference: Lilley et al. (1997).
KE:A97	Artefact Scatter	S. Ulm	24°14'42"S 151°56'37"E	Small artefact scatter comprising 12 stone artefacts manufactured on silcrete exposed over c.10m ² on a bluff adjacent to low dunes. Large blocks of silcrete embedded in the ground surface may have been modified. Reference: Lilley et al. (1997).
KE:A98	Shell Midden/ Artefact Scatter	S. Ulm	24°15'14"S 151°56'44"E	Sparse scatter of stone artefacts and shell, including oyster, whelk and mussel. Colouration on some shell suggests a recent, perhaps non-Aboriginal, origin. Large silcrete flake collected from adjacent high water mark. Reference: Lilley et al. (1997).
KE:A99	Artefact Scatter	S. Ulm	24°16'00"S 151°56'50"E	Two stone artefacts located on the open coast on the southern side of the Red Rock headland, south of Rocky Point. One broken waterworn pebble manuport with cortex, and one flake on a red igneous rock (possibly silcrete). References: Lilley et al. (1997).
KE:B00	Artefact Scatter	S. Ulm	24°16'00"S 151°56'50"E	Two rhyolitic tuff cores and one andesite flake located on a walking track on the open coast on the southern side of the Red Rock headland, south of Rocky Point. References: Lilley et al. (1997).
KE:B01	Artefact Scatter	S. Ulm	24°14'00"S 151°56'00"E	Low density scatter of rhyolitic tuff flakes and flaked pieces exposed on eroding walking and vehicle tracks across the northern Rocky Point headland. References: Lilley et al. (1997).
KE:B02	Artefact Scatter	S. Ulm	24°14'00"S 151°56'00"E	Scatter of 20 flakes and flaked pieces manufactured on chert, rhyolitic tuff and quartzite exposed in a road cutting on the northern Rocky Point headland. References: Lilley et al. (1997).
KE:B03	Artefact Scatter	S. Ulm	24°14'01"S 151°55'57"E	Six large silcrete flakes and three cores eroding out of secondary orange dune. Located adjacent to two round wooden pillons driven into top of dune. Reference: Lilley et al. (1997).
KE:B04	Shell Midden/ Artefact Scatter	S. Ulm	24°13'47"S 151°55'45"E	Low density scatter of shell and stone material over c.5m ² area at intersection of 4WD track and beach c.20m west of high water mark. All material may have a non-Aboriginal origin as the site is located in a popular European camping area. Reference: Lilley et al. (1997).
KE:B05	Shell Midden/ Artefact Scatter	S. Ulm	24°13'41"S 151°55'39"E	Stone material eroding down slope of c.3m high frontal dune with material in section c.20cm below ground surface. Located c.50m south of minor headland mid-way between Rocky Point and Agnes Water headlands. Scattered surface shell thought to have modern origin. Test excavation yielded no unambiguously cultural material, although the origin of the stone material in the deposit remains to be explained. Reference: Lilley et al. (1997).

continued over

Appendix 2: continued

SITE ID	SITE TYPE	RECORDER	LOCATION	DESCRIPTION
KE:B06	Shell Midden/ Artefact Scatter	S. Ulm	24°13'28"S 151°55'31"E	Small scatter of shell and stone artefacts in low secondary dune c.50m of minor headland mid-way between Rocky Point and Agnes Water headlands. Includes oyster, mud ark and pipi. References: Lilley et al. (1997).
KE:B07	Shell Midden/ Artefact Scatter/ Stone Quarry	S. Ulm	24°07'00"S 151°46'30"E	Extensive shell midden and quarry site complex (c.140,000m ²) located on the southern bank of Middle Creek close to its mouth. Includes oyster, mud ark, nerite and pipi. Shell material visible in erosion sections up to 25cm deep. Extensive outcrop of modified rhyolitic tuff. Surface artefact densities up to 110/m ² . This site is dated on charcoal to 1,640±150 BP (Wk-6361). References: Lilley et al. (1997); Reid (1998).
KE:B10 KE:B22				
KE:B11	Artefact Scatter	S. Ulm	24°09'00"S 151°46'30"E	Stone artefact scatter on salt pan at the southern extremities of Ocean Creek estuary where low mangroves begin at base of creek. Numerous stone artefacts manufactured on rhyolitic tuff spread over c.200m ² area c.20m west of low casuarina fringe. Several isolated fragments of shell noted along mangrove fringe. References: Lilley et al. (1997).
KE:B12	Artefact Scatter	S. Ulm	24°08'30"S 151°47'00"E	Numerous artefacts manufactured on rhyolitic tuff embedded in a muddy surface on mudflats in the centre of open area on Middle Creek estuary. References: Lilley et al. (1997).
KE:B16	Artefact Scatter	S. Ulm	24°09'30"S 151°48'00"E	Nine rhyolitic tuff artefacts scattered over a 50m ² area c.30m southeast of bridge on saltpan at the northern extremity of Eurimbula Creek. References: Lilley et al. (1997).
KE:B17	Shell Midden/ Artefact Scatter	S. Ulm	24°09'40"S 151°48'10"E	Low density scatter of oyster shell fragments and two water-worn manuports visible on bank about 10m through mangroves to channel of Eurimbula Creek. References: Lilley et al. (1997).
KE:B18	Shell Midden	S. Ulm	24°09'54"S 151°49'02"E	Scatter of midden shell visible in low (c.30cm high) erosion bank on mangrove fringe of Eurimbula Creek. Some sparse scattered oyster fragments visible on surface. Main scatter c.5m ² eroding out of bank onto flat mangrove fringe. Shell layer visible in erosion bank c.18cm below surface and c.3cm thick for c.3m along bank. Density is c.108/m ² . Includes oyster and mud ark. This site is dated on charcoal to 230±60 BP (Wk-7680). References: Lilley et al. (1997); Ulm (1999).
KE:B19	Shell Midden	S. Ulm	24°10'04"S 151°49'22"E	Scatter of shell visible on top of a low dune c.20m northeast of mangrove fringe of Eurimbula Creek mainly visible in the burrow of an unknown animal. Scatter spread over an area of c.10m ² . Maximum density is 25/m ² . Predominantly oyster, with some nerite, mud ark, whelk and telescope mud whelk. Located in dry rainforest thicket. Recent excavations in this general site complex have yielded modern radiocarbon dates. References: Lilley et al. (1997); Ulm (1999).
KE:B20	Shell Midden/ Artefact Scatter	S. Ulm	24°10'10"S 151°49'36"E	Very sparse scatter of shell visible on low (c.1m high) erosion bank c.10m north of Eurimbula Creek. Includes mud ark, oyster and whelk as well as several flaked pieces of quartz and rhyolitic tuff and some larger, possibly ground, implements manufactured on the rhyolitic tuff. References: Lilley et al. (1997).
KE:B21	Shell Midden	S. Ulm	24°10'21"S 151°50'17"E	Extensive low density pipi scatter located c.50m from open beach and c.100m west of the mouth of Eurimbula Creek. May be non-cultural. References: Lilley et al. (1997).
KE:B24	Shell Midden	C. Burke	24°01'01"S 151°30'14"E	
KE:B26	Shell Midden	S. Ulm	24°11'50"S 151°52'10"E	Mounded mud ark midden disturbed by brush-turkey nesting located near the eastern bank of Round Hill Creek and the southern bank of Tom's Creek, Agnes Water. References: Lilley et al. (1997).
KE:B28	Scarred Tree	S. Ulm	24°15'30"S 151°53'00"E	Possible scarred tree which has been felled for construction of a power easement on the southern margin of Round Hill National Park. References: Lilley et al. (1997).
KE:B29	Artefact Scatter	S. Ulm	24°15'00"S 151°55'30"E	Low density scatter of stone artefacts located along the northeastern margin of Deepwater Creek, southwest of Rocky Point. References: Lilley et al. (1997).

continued over

Appendix 2: continued

SITE ID	SITE TYPE	RECORDER	LOCATION	DESCRIPTION
KF:A01	Shell Midden	C. Burke 6.3.1993	23°58'52"S 151°36'48"E	Very sparse surface shell scatter dominated by oyster on the eastern side of Richards Point, Rodds Peninsula. Total of 20 shell fragments. References: Burke (1993).
KF:A02	Shell Midden	C. Burke 7.3.1993	23°59'20"S 151°40'06"E	Four low density shell scatters (c.1,200m ²) up to 5cm deep dominated by oyster but also includes chiton, austro, turbo and mud ark, located on the northeastern coast of Rodds Peninsula. Scatters in close proximity to beach, tidal inlet and rock platforms. References: Burke (1993).
KF:A03	Shell Midden	C. Burke 8.3.1993	23°59'23"S 151°39'44"E	Two surface shell scatters (c.1,400m ²) located behind dunes and a tidal inlet 50–60m from ocean and rock platforms, located on the northeastern coast of Rodds Peninsula. Dominated by oyster and includes mud ark, chiton and turbo. References: Burke (1993).
KF:A04	Shell Midden	C. Burke 8.3.1993	23°59'13"S 151°39'29"E	Very sparse surface shell scatter (c.40m ²) of oyster 20m from beach and rock platforms, located on the northeastern coast of Rodds Peninsula, c.10m asl. Site is behind thick scrub. References: Burke (1993).
KF:A05	Shell Midden	C. Burke 8.3.1993	23°59'05"S 151°39'22"E	Two shell scatters (c.1,700m ²) at least 15cm deep situated on a bank near the beach c.20m from the sea and rock platforms, located on the northeastern coast of Rodds Peninsula. Dominated by oyster and includes mud ark, chiton and turbo. References: Burke (1993).
KF:A06	Shell Midden	C. Burke 8.3.1993	23°59'27"S 151°40'14"E	Two sparse oyster scatters (c.150m ²) located 50m from beach and rocks, located in the vicinity of foredunes on the northeastern coast of Rodds Peninsula. Freshwater creeks in close vicinity to deposits. References: Burke (1993).
KF:A07	Shell Midden	C. Burke 9.3.1993	23°58'52"S 151°38'52"E	Sparse oyster deposits (c.200m ²) up to 5cm deep situated c.100m from sea and 5m asl on a bank on top of a ridge, located on the northeastern coast of Rodds Peninsula. Dominated by oyster and includes austro. References: Burke (1993).
KF:A08	Artefact Scatter	C. Burke 9.3.1993	23°58'33"S 151°37'31"E	Isolated stone artefact on a steep rocky slope on top of a headland on the eastern side of Richards Point, Rodds Peninsula, c.20m asl and 20m from rock platforms and ocean. References: Burke (1993).
KF:A09	Shell Midden	C. Burke 9.3.1993	23°58'45"S 151°37'44"E	Surface shell scatter (c.200m ²) on beach c.0.5m asl and c.10m from rock platforms and ocean, c.500m northwest of Richards Point, Rodds Peninsula. Dominated by oyster and includes mud ark and austro. References: Burke (1993).
KF:A10	Shell Midden	C. Burke 9.3.1993	23°58'45"S 151°37'44"E	Surface oyster scatter (c.800m ²) at least 5cm deep situated c.50m from beach in open woodland, located on the northeastern coast of Rodds Peninsula. Ocean and rock platforms c.200m from site. Augering revealed shell to 5cm in depth. References: Burke (1993).
KF:A11	Shell Midden	C. Burke 9.3.1993	23°58'51"S 151°37'18"E	Sparse surface scatters (c.500m ²) of oyster and mud ark, 50–100m from rock platforms and ocean, located on the northeastern coast of Rodds Peninsula. Tidal creek in close vicinity. References: Burke (1993).
KF:A12	Fishtrap	C. Burke 9.3.1993	23°58'40"S 151°37'25"E	Stone-walled fishtrap of unknown dimensions located in a small bay to the immediate west of Richards Point. The trap appears to contain water at both high and low tide. The trap is in the shape of an arc with a formed opening in the centre of it. References: Burke (1993); Lilley et al. (1997).
KF:A13	Shell Midden	C. Burke 8.3.1993	23°59'24"S 151°40'13"E	Very sparse surface shell scatters (c.50m ²) containing mostly oyster 20–50m from rock platforms and ocean. Freshwater creek located 10–50m away. References: Burke (1993).
KF:A14	Shell Midden	C. Burke 8.3.1993	23°59'08"S 151°39'11"E	Sparse surface shell scatters (c.3,650m ²) situated on top of a dune ridge in a clearing behind the beach, located on the northeastern coast of Rodds Peninsula. Dominated by oyster and includes mud ark, chiton and mussel. Tidal creek is located nearby. References: Burke (1993).
KF:A15	Shell Midden	C. Burke 8.3.1993	23°59'08"S 151°39'09"E	Sparse surface shell scatter, containing mostly oyster, situated on top of a dune ridge, located on the northeastern coast of Rodds Peninsula. Tidal creek is located nearby. References: Burke (1993).

continued over

Appendix 2: continued

SITE ID	SITE TYPE	RECORDER	LOCATION	DESCRIPTION
KF:A16	Shell Midden	C. Burke 8.3.1993	23°58'55"S 151°38'50"E	Surface oyster scatter (c.25m ²) situated c.100m from ocean and c.50m from rock platforms, c.5m asl, located on the northeastern coast of Rodds Peninsula. References: Burke (1993).
KF:A23	Shell Midden	S. Ulm	24°59'22"S 151°40'15"E	Low density surface scatter of oyster up to c.150m inland on northeastern Rodds Peninsula associated with large burdekin plum trees. Possible subsurface component. Reference: Lilley et al. (1997).
SCC55	Shell Midden	S. Ulm	24°04'30"S 151°39'00"E	Thin layer of oyster eroding out of low bank c.5cm below ground surface along c.4m of bank at Turkey Beach. Area to the west and south has been levelled for the construction of a small toilet block and BBQ area.
SCC58	Shell Midden	S. Ulm	24°01'40"S 151°44'40"E	Surface scatter of shell on a high dune ridge up to 50m inland on the eastern bank of Pancake Creek immediately behind a navigation beacon opposite Pancake Point. Visible shell appears to be associated with crab burrowing and is probably derived from subsurface deposits. Dominated by oyster but also includes mud ark and whelk. A small silcrete core was also noted. References: Ulm (1999).
SCC64	Shell Midden	S. Ulm	24°07'25"S 151°40'59"E	Extensive linear shell midden exposed in section on the western bank of Worthington Creek. The midden material is located along the top margin of a high (c.4m) creek erosion bank. Sandstone is exposed at the base of the section, overlain by a thick layer of light brown clays and a thin veneer of eroding top soils containing the shell material. Shell is visible along a segment of bank c.350m in length and up to 5cm deep. Includes oyster and scallop. This site is dated on shell to 349±60 BP (Wk-10089). References: Ulm (this volume).

Appendix 3: Site name synonyms for recorded sites on the southern Curtis Coast

EPA REGISTERED SITE NO.	BURKE (1993) FIELD NO.	BURKE (1993) PRE-ALLOCATED SITE NO.	GGCHP SITE ID	OTHER DESIGNATIONS
JE:A41				Hummock Hill Island Site 1
JE:A42				Hummock Hill Island Site 2
JE:A43				Hummock Hill Island Site 3
JE:A60	CC190			
JE:A61	CC192			
JE:A62	CC193			
JE:A63	CC195			
JE:A64	CC196			
JE:A65	CC197			
JE:A66	CC187			
KE:A05	CC132		SCC20	Rocky Point Quarry; Choughs Crossing
KE:A06				Agnes Water Grooves
KE:A08				Boyne Creek I (Neal 1986)
KE:A09			SCC63	Boyne Creek II (Neal 1986); Seven Mile Creek Mound (this volume)
KE:A10			SCC3	MV1 (Rowland 1987)
KE:A11	CC144		SCC65	MV2 (Rowland 1987); Tom's Creek Site Complex (this volume)
KE:A12	CC139		SCC1	MV3 (Rowland 1987)
	CC043	KE:A37		
	CC044	KE:A38		
	CC045	KE:A39		
	CC046	KE:A40		
	CC047	KE:A41		
	CC048	KE:A42		
	CC049	KE:A43		
	CC050	KE:A44		
	CC051	KE:A45		
	CC052	KE:A46		
KE:A16	CC147		SCC53	MV4 (Rowland 1987); Round Hill Creek Mound (this volume)
KE:A32				Miriam Vale Homestead (Davies 1994); BG10 (Davies 1994)
KE:A33	CC141	KE:A31	SCC59	Tom's Creek Site Complex (this volume)
	CC142	KE:A30		
KE:A34	CC005	KE:A32		
KE:A35	CC006	KE:A33		Site Group 4 (Lilley 1994)
KE:A36	CC007	KE:A34		Site Group 4 (Lilley 1994)
KE:A37	CC008	KE:A35	SCC46	Site Group 4 (Lilley 1994)
KE:A38	CC009	KE:A36		
KE:A39	CC065	KE:A47		
KE:A40	CC066	KE:A48		
KE:A41	CC067	KE:A49	SCC42	Rodds Peninsula Site Complex (Carter 1997)
	CC068	KE:A50		Mort Creek Site Complex (this volume)
KE:A42	CC069	KE:A51		
KE:A43	CC090	KE:A52		
	CC091	KE:A53		
	CC092	KE:A54		
	CC093	KE:A55		
KE:A44	CC094	KE:A56	SCC45	Pancake Creek Site Complex (this volume)
KE:A45	CC095	KE:A57	SCC45	Pancake Creek Site Complex (this volume)
	CC096	KE:A58		
KE:A46	CC097	KE:A59	SCC45	Pancake Creek Site Complex (this volume)

continued

Appendix 3: continued

EPA REGISTERED SITE NO.	BURKE (1993) FIELD NO.	BURKE (1993) PRE-ALLOCATED SITE NO.	GGCHP SITE ID	OTHER DESIGNATIONS
KE:A47	CC098	KE:A60	SCC45	Pancake Creek Site Complex (this volume)
KE:A48	CC099	KE:A61	SCC45	Pancake Creek Site Complex (this volume)
KE:A49	CC112A CC113A CC131	KE:A62 KE:A63 KE:A64	SCC43	Eurimbula Site 1 (this volume)
KE:A50	CC114 CC115 CC116	KE:A65 KE:A66 KE:A67	SCC43	Eurimbula Site 1 (this volume)
KE:A51	CC117 CC118	KE:A68 KE:A69	SCC43	Eurimbula Site 1 (this volume)
KE:A52	CC119 CC120 CC121 CC122 CC123 CC124	KE:A70 KE:A71 KE:A72 KE:A73 KE:A74 KE:A75	SCC43	Eurimbula Site 1 (this volume)
KE:A53	CC125 CC126 CC127	KE:A76 KE:A77 KE:A78	SCC43	Eurimbula Site 1 (this volume)
KE:A54	CC128 CC129 CC130	KE:A79 KE:A80 KE:A81	SCC43	Eurimbula Site 1 (this volume)
KE:A55	CC174	KE:A82		
KE:A56	CC133	KE:A83		
KE:A57	CC135 CC136 CC137	KE:A84 KE:A85 KE:A86		
KE:A58	CC138	KE:A87		
KE:A59	CC173	KE:A88		
KE:A60	CC148	KE:A89	SCC52	
KE:A61	CC169	KE:A90	SCC49	Caravan Midden Scatter (Lilley et al. 1997)
KE:A62	CC140	KE:A91		Tom's Creek Site Complex (this volume)
KE:A63	CC143	KE:A92		Tom's Creek Site Complex (this volume)
KE:A64				Site Group 1 (Lilley 1994)
KE:A65				Site Group 2 (Lilley 1994)
KE:A66				Site Group 4 (Lilley 1994)
KE:A67			SCC47	Site Group 5 (Lilley 1994); Middle Island Sandblow Site (this volume)
KE:A87			SCC3	Agnes Beach Midden (this volume); Agnes Water Shell and Stone Artefact Scatter #2 (Lilley et al. 1997)
KE:A88			SCC4	Agnes Water Shell and Stone Artefact Scatter #3 (Lilley et al. 1997)
KE:A89			SCC5	Agnes Water Shell and Stone Artefact Scatter #4 (Lilley et al. 1997)
KE:A90			SCC6	Agnes Water Shell and Stone Artefact Scatter #5 (Lilley et al. 1997)
KE:A91			SCC7	Eurimbula Creek Shell Scatter (Lilley et al. 1997)
KE:A92			SCC10	Eurimbula Shell and Stone Artefact Scatter (Lilley et al. 1997)
KE:A93			SCC11	Deepwater Shell and Stone Artefact Scatter (+ Lens) (Lilley et al. 1997)
KE:A94			SCC12	Deepwater Stone Artefact Scatter #1 (Lilley et al. 1997)
KE:A95			SCC13	Deepwater Stone Artefact Scatter #2 (Lilley et al. 1997)
KE:A96			SCC14	Deepwater Hearth Features (Lilley et al. 1997)
KE:A97			SCC15	Deepwater Artefact Scatter (Lilley et al. 1997)
KE:A98			SCC16	Deepwater Shell and Stone Artefact Scatter (Lilley et al. 1997)
KE:A99			SCC17	Deepwater Shell and Stone Artefact Scatter (Lilley et al. 1997)
KE:B00			SCC18	Red Rock Stone Artefact Scatter #1 (Lilley et al. 1997)
KE:B01			SCC19	Rocky Point Stone Artefact Scatter (Lilley et al. 1997)

Appendix 3: continued

EPA REGISTERED SITE NO.	BURKE (1993) FIELD NO.	BURKE (1993) PRE-ALLOCATED SITE NO.	GGCHP SITE ID	OTHER DESIGNATIONS
KE:B02			SCC21	Rocky Point Stone Artefact Scatter #1 (Lilley et al. 1997)
KE:B03			SCC22	Rocky Point Stone Artefact Scatter #2 (Lilley et al. 1997)
KE:B04			SCC23	Agnes Water-Rocky Point Stone Artefact Scatter (Lilley et al. 1997)
KE:B05			SCC24	Agnes Water Shell and Stone Artefact Scatter #1 (Lilley et al. 1997)
KE:B06			SCC25	Agnes Water Shell and Stone Artefact Scatter #2 (Lilley et al. 1997)
KE:B07			SCC26-SCC29; SCC41	Ironbark Site Complex (this volume)
KE:B08			SCC26-SCC29; SCC41	Ironbark Site Complex (this volume)
KE:B09			SCC26-SCC29; SCC41	Ironbark Site Complex (this volume)
KE:B10			SCC26-SCC29; SCC41	Ironbark Site Complex (this volume)
KE:B11			SCC30	Middle Creek Stone Artefact Scatter #1
KE:B12			SCC31	Middle Creek Stone Artefact Scatter #2
KE:B16			SCC35	Eurimbula Creek Stone Scatter
KE:B17			SCC36	Middle Creek Shell and Stone Scatter
KE:B18			SCC37	Eurimbula Creek 1 (this volume); Middle Creek Shell Scatter #1
KE:B19			SCC38	Eurimbula Creek 2 (this volume); Middle Creek Shell Scatter #2
KE:B20			SCC39	
KE:B21			SCC40	Eurimbula Creek Shell Scatter (Lilley et al. 1997)
KE:B22			SCC26-SCC29; SCC41	Ironbark Site Complex (this volume)
KE:B24	CC194			
KE:B26			SCC48	Turkey Mound Midden (Lilley et al. 1997)
KE:B28			SCC50	Round Hill National Park Scarred Tree (Lilley et al. 1997)
KE:B29			SCC51	Swamp Artefact Scatter (Lilley et al. 1997)
KF:A01	CC064	KF:A01		
KF:A02	CC071	KF:A02		
	CC072	KF:A03		
	CC073	KF:A04		
	CC074	KF:A05		
KF:A03	CC075	KF:A06		
	CC076	KF:A07		
KF:A04	CC077	KF:A08		
KF:A05	CC078	KF:A09		
	CC080	KF:A10		
KF:A06	CC081	KF:A11		
	CC082	KF:A12		
KF:A07	CC087	KF:A13		
	CC088	KF:A14		
KF:A08	CC101	KF:A15		
KF:A09	CC102	KF:A16		
KF:A10	CC103	KF:A17		
KF:A11	CC104	KF:A18		
	CC105	KF:A19		
KF:A12	CC100	KF:A20	SCC54	
KF:A13	CC070	KF:A21		
	CC083	KF:A22		
KF:A14	CC084	KF:A23		
	CC085	KF:A24		
KF:A15	CC086	KF:A25		
KF:A16	CC089	KF:A26		
KF:A23			SCC44	Plum Tree Site (Lilley et al. 1997)
-			SCC64	Worthington Creek Midden

Appendix 4: Excavation data

Table A4/1 Seven Mile Creek Mound, Square A. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	3.6	3.6	0.2	1.9	0	0	*	0	0
2	33.4	29.8	9.8	4595.9	7.8	0.7	0.1	0.8	749.8
3	66.2	32.8	11.1	6589.1	29.1	1.3	0.4	1.7	793.8
4	104.0	37.8	12.3	6448.5	55.0	1.6	0.2	0.7	799.2
5	133.8	29.8	11.1	5736.5	59.8	1.2	0.2	2.5	997.2
6	170.4	36.6	12.3	6606.4	20.2	1.3	0.6	0.1	826.4
7	206.2	35.8	10.8	5774.5	42.4	1.7	0.7	8.5	674.2
8	240.2	34.0	10.8	5986.6	22.1	0.2	0.5	16.8	471.8
9	278.6	38.4	11.5	5618.0	19.3	0.8	0.4	2.5	1516.7
10	312.4	33.8	10.2	5437.5	17.7	0.3	0.1	0.5	675.1
11	353.0	40.6	11.6	6114.7	20.5	4.9	0.8	1.4	861.3
12	389.6	36.6	10.1	5441.6	40.6	3.3	0.3	0.7	878.9
13	436.4	46.8	11.1	6000.2	61.8	3.6	0.1	0	979.5
14	466.8	30.4	10.4	5499.1	35.7	5.1	0.2	2.6	1499.1
15	508.0	41.2	11.3	6079.8	17.0	3.9	1.5	31.9	989.6
16	554.4	46.4	12.1	6290.5	5.6	2.0	1.0	16.1	1297.7
17	582.0	27.6	11.7	5572.8	10.8	0.8	1.0	35.8	1176.2
18	643.6	61.6	18.9	4197.7	5.4	0.2	0.2	32.4	1118.8
19	676.2	32.6	13.4	5247.8	8.7	1.5	0.2	2.7	1677.9
20	714.6	38.4	15.3	6478.2	18.6	0.4	0.9	0.9	442.3
21	750.6	36.0	14.0	9679.4	16.1	0.9	1.3	0.7	1358.2
22	785.4	34.8	12.8	4640.6	5.4	0.4	1.4	0	1254.3
23	818.6	33.2	12.7	3921.1	3.8	0.4	1.4	1.0	619.3
24	848.2	29.6	12.2	3368.9	2.6	0.1	1.5	3.7	467.7
25	886.8	38.6	15.1	2496.7	3.7	0.2	1.2	0	394.4
26	921.8	35.0	13.5	1336.9	4.8	1.6	1.0	0	444.5
27	952.6	30.8	12.7	552.9	0.7	*	0.7	4.8	620.7
28	994.6	42.0	12.9	60.6	0	*	0.2	0.3	251.4
29	1030.6	36.0	13.3	16.3	0	*	0.4	0.1	235.1
30	1097.0	66.4	26.1	3.2	0	0	0.1	0	1312.8
31	1163.2	66.2	24.1	0.8	0	0	0.2	0	724.6
Total	-	-	395.4	135794.8	535.2	38.3	18.8	169.1	26108.6

Table A4/2 Mort Creek Site Complex, Square C. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	0	0	0	0.7	0	0	0	0	0.1
2	47.2	47.2	17.6	723.4	0	1.0	0.2	0	14.1
3	55.8	8.6	9.8	775.0	0	0.9	0.5	0	34.1
4	83.2	27.4	10.0	1661.2	0	2.2	0.5	0	11.8
5	113.4	30.2	9.0	1581.3	0	2.3	0.7	0	7.9
6	158.2	44.8	12.9	2831.6	0	7.9	2.5	0	57.2
7	180.8	22.6	7.4	754.7	0	25.9	0.3	*	34.3
8	222.8	42.0	17.8	291.8	0	9.6	1.1	131.7	252.9
9	255.4	32.6	8.5	70.3	0.1	2.0	0.2	0	9.7
10	291.8	36.4	10.5	13.3	0	1.2	0.3	0	20.1
11	327.2	35.4	11.5	15.0	0	6.8	0.2	0.8	50.2
12	353.4	26.2	8.5	12.7	0	2.2	0.2	0.3	844.1
13	388.4	35.0	10.3	0.4	0	0.6	0.9	0	17.3
14	428.0	39.6	13.6	0.1	0	0.1	5.8	0	32.5
15	457.2	29.2	9.5	0.1	0	0.1	0.1	0	50.2
16	495.6	38.4	9.5	0.5	0	0.1	0.1	0.1	321.0
17	536.4	40.8	14.8	8.3	0	0.3	0.7	2.1	1505.6
18	564.2	27.8	11.5	8.3	0	1.1	1.7	0.8	761.5
19	590.6	26.4	7.8	0.1	0	0.3	0.1	*	1528.7
Total	-	-	200.5	8748.8	0.1	64.5	15.8	135.7	5553.3

Table A4/3 Pancake Creek Site Complex, Square A. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	7.6	7.6	0.4	0	0	0	0.2	0	*
2	61.4	58.3	16.0	0.5	0	0	3.1	0	4.0
3	87.4	26.0	7.5	0.3	0	0	1.2	0	1.6
4	103.4	16.0	6.2	0	0	0	1.0	0	1.7
5	125.2	21.8	7.5	0	0	0	2.2	0	2.1
6	156.8	31.6	9.5	0.9	0	0	5.7	0	4.5
7	179.8	23.0	8.1	0.5	0	*	13.1	0	4.3
8	204.2	24.4	9.0	4.3	0	0	3.6	0	5.3
9	235.2	31.0	10.5	86.4	0	0	3.8	0	61.3
10	260.4	25.2	9.5	21.1	0	0	12.9	0	9.4
11	294.8	34.4	12.0	2.0	0	0	35.5	*	86.3
12	325.2	30.4	11.3	0.7	0	0	18.8	0	33.7
13	351.0	25.8	10.0	0.1	0	0	6.0	0	30.2
14	378.0	27.0	10.0	0	0	0	4.3	0	31.6
15	434.2	56.2	20.7	0.1	0	0	11.0	0	63.6
16	503.0	68.8	27.0	0	0	0	79.3	0	29.8
17	559.2	56.2	22.4	3.8	0	0	40.7	0	74.3
18	603.2	44.0	16.7	0	0	0	6.0	0	14.3
19	683.2	80.0	33.5	0	0	0	4.6	0	10.8
Total	-	-	247.8	120.6	0	*	252.8	*	468.7

Table A4/4 Pancake Creek Site Complex, Square B. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	10.8	10.8	0.3	0.1	0	0	0.1	0	0
2	69.0	58.2	16.2	0.4	0	0	2.7	0	3.8
3	87.4	18.4	8.2	0.7	0	0	1.0	0	2.0
4	121.8	34.4	7.7	*	0	0	1.3	0	2.1
5	154.6	32.8	10.4	0.1	0	0	3.6	0	3.3
6	172.6	18.0	9.0	18.0	0	0	2.0	0	3.8
7	206.6	34.0	10.7	18.7	0	0	3.3	0	7.7
8	233.4	26.8	9.0	92.5	0	0	5.1	0	5.5
9	262.4	29.0	9.7	133.9	0	0.5	12.6	0	8.0
10	293.0	30.6	10.3	9.2	0	0	17.0	0	15.4
11	331.2	38.2	11.5	19.2	0	0	11.7	0	16.6
12	358.0	26.8	9.2	1.0	0	0	10.5	0	14.8
13	387.0	29.0	9.1	*	0	0	32.2	0	12.6
14	419.2	32.2	9.7	0	0	0	25.3	0	12.7
15	476.8	57.6	20.5	0	0	0	36.2	0	9.1
16	528.2	51.4	17.9	0	0	0	32.7	0	8.1
17	586.2	58.0	22.9	0	0	0	17.2	*	7.1
18	674.0	87.8	31.1	0	0	0	5.9	0	17.1
Total	-	-	223.3	293.8	0	0.5	220.3	*	149.9

Table A4/5 Pancake Creek Site Complex, Square C. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	3.6	3.6	0.1	*	0	0	*	0	0
2	80.8	77.2	27.1	44.4	0	0.1	18.0	0	57.5
3	118.0	37.2	11.3	76.7	0	0	1.8	0	1.1
4	151.0	33.0	12.6	83.2	0	0	2.2	0	1.8
5	187.8	36.8	10.8	625.7	0	0	5.6	0	2.2
6	231.8	44.0	12.7	827.1	0	0	7.0	0	12.8
7	270.2	38.4	12.6	157.2	0	0	7.4	0	14.3
8	315.0	44.8	12.3	81.8	0	0	51.2	0	14.6
9	354.6	39.6	11.1	15.7	0	0	38.4	0	0.4
10	393.4	38.8	12.4	6.0	0	0	3.5	0	0.2
11	436.0	42.6	9.2	*	0	0	9.2	0	0.7
12	530.2	94.2	26.4	0.6	0	0	12.4	0	0.1
13	617.0	86.8	31.7	0	0	0	1.5	0	3.9
Total	-	-	190.3	1918.5	0	0.1	158.2	0	109.6

Table A4/6 Pancake Creek Site Complex, Square D. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	1.2	1.2	0	*	0	0	*	0	*
2	72.0	70.8	24.4	12.9	0	0	11.8	0	1.0
3	140.6	68.6	22.3	47.3	0	0	4.5	0	1.1
4	175.2	34.6	12.6	77.2	0	0	2.5	0	1.9
5	213.4	38.2	12.5	367.6	0	0	3.6	*	4.3
6	246.4	33.0	12.4	100.4	0	0	3.6	0	2.0
7	283.6	32.2	12.4	25.5	0	0	11.5	0	2.4
8	321.6	38.0	13.9	30.5	0	0	27.5	12.8	2.3
9	356.2	34.6	11.8	1.4	0	0	6.1	0	*
10	388.0	31.8	11.6	0.1	0	0	4.6	0	0.2
11	442.2	54.2	17.6	0.1	0	0	8.3	0	0.2
12	525.6	83.4	25.6	0.1	0	0	7.2	0	0.8
13	606.4	80.8	27.6	0.1	0	0	2.5	0	0.5
Total	-	-	204.7	663.1	0	0	93.7	12.8	16.7

Table A4/7 Pancake Creek Site Complex, Square E. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	1.6	1.6	0	*	0	0	0.5	0	*
2	65.2	63.6	24.3	16.2	0	0	60.9	0	0.7
3	131.0	65.8	12.6	12.5	0	0	35.6	0	1.8
4	165.4	34.4	11.8	45.3	0	0	7.1	0	2.9
5	199.2	33.8	13.4	391.5	0	0	4.5	0	16.9
6	233.0	33.8	12.0	87.9	0	0	5.5	0	29.5
7	269.2	36.2	12.0	33.0	0	0	10.6	0	0.8
8	302.8	33.6	11.8	18.9	0	0	22.0	0	1.1
9	369.8	67.0	23.5	0.1	0	0	8.3	0	0.6
10	448.4	78.6	27.3	3.9	0	0	7.4	0	0.9
11	521.2	72.8	22.4	0.1	0	0	6.5	0	0.5
12	586.4	65.2	25.6	0.4	0	0	2.3	0	7.2
Total	-	-	196.7	609.9	0	0	171.2	0	62.9

Table A4/8 Pancake Creek Site Complex, Square F. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	1.4	1.4	0	*	0	0	0.1	0	*
2	61.2	59.8	26.2	22.1	0	2.3	57.1	0	0.8
3	119.6	58.4	23.1	48.2	0	0	46.6	0	14.5
4	154.0	34.4	12.9	84.0	0	0	5.3	0	1.9
5	182.6	28.6	11.3	281.2	0	0	6.2	0	8.9
6	218.4	35.8	12.7	503.1	0	0	10.6	0	2.1
7	249.2	30.8	12.4	182.2	0	0	8.4	0.1	2.5
8	282.0	32.8	12.5	56.8	0	0	17.3	*	10.3
9	316.2	34.2	12.6	9.2	0	0	72.5	0	0.7
10	373.6	57.4	24.7	11.4	0	0	18.0	0	0.4
11	458.6	85.0	30.5	0.5	0	0	23.4	0	0.3
12	529.6	71.0	24.0	1.6	0	0	13.9	0	0.1
13	599.2	69.6	23.1	0.5	0	0	2.4	0	2.9
Total	-	-	226.0	1201.0	0	2.3	281.8	0.2	45.5

Table A4/9 Pancake Creek Site Complex, Square G. *= <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	2.0	2.0	0.2	0.4	0	0	0.1	0	0
2	54.2	52.2	18.7	11.3	0	0	6.9	0	25.6
3	101.0	46.8	15.0	14.0	0	0	3.1	0	2.5
4	158.2	57.2	17.3	50.5	0.2	0	4.6	0	2.2
5	176.0	17.8	7.3	71.5	0	0	3.2	0	2.7
6	208.8	32.8	4.5	337.1	0	0	2.8	0	34.7
7	237.2	28.4	9.3	508.8	0	0	18.4	0	107.6
8	267.4	30.2	10.9	16.9	0	0	44.8	0	3.9
9	311.8	44.4	13.4	29.4	0	0	18.4	0	1.8
10	348.6	36.8	11.4	5.3	0	0	25.1	0	11.3
11	380.0	31.4	10.6	2.0	0	0	21.1	0	0.6
12	403.4	23.4	7.2	163.4	0	0	9.8	0	0.2
13	435.4	32.0	10.8	60.7	0	0	12.1	0	1.6
14	466.6	31.2	11.1	0.2	0	0	9.5	0	0.4
15	496.2	29.6	11.8	1.0	0	0	11.7	0	1.4
16	543.0	46.8	14.6	1.3	0	0	5.4	0	2.9
17	582.2	39.2	13.0	*	0	0	2.8	0	0.6
18	656.4	74.2	25.2	0.2	0	0	2.0	0	17.3
Total	-	-	212.3	1274.1	0.2	0	201.7	0	217.3

Table A4/10 Pancake Creek Site Complex, Square H. *= <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	2.2	2.2	0.1	0.2	0	0	0.3	0	0.1
2	53.8	51.6	17.8	5.8	0	0	6.7	0.1	1.9
3	97.8	44.0	14.3	7.1	0	0	2.8	0	1.1
4	147.8	50.0	16.8	16.5	0	0	5.3	0	2.1
5	180.6	32.8	11.1	4.4	0	0	4.3	0	1.3
6	210.0	29.4	9.9	41.7	0	0	5.1	*	26.5
7	242.4	32.4	11.1	128.8	0	0	4.4	0	4.5
8	261.4	19.0	7.4	50.0	0	0	13.3	0	2.3
9	297.0	35.6	11.0	131.2	0	0	10.7	0.2	1.8
10	336.0	39.0	11.9	139.5	0	0	13.4	0.1	2.7
11	365.2	29.2	11.2	*	0	*	16.0	0	3.1
12	401.0	35.8	11.8	*	0	0	146.8	0	2.9
13	438.0	37.0	12.2	9.0	0	0	14.0	0	0.7
14	467.2	29.2	10.2	0.7	0	0	8.9	0	0.2
15	530.4	63.2	21.5	0.9	0	0	56.8	0	1.7
16	591.2	60.8	20.6	*	0	0	23.2	0	2.6
17	647.8	56.6	19.8	0.2	0	0	5.2	0	4.0
18	675.6	27.8	9.0	*	0	0	1.5	0	5.5
Total	-	-	227.7	535.9	0	*	338.6	0.4	65.0

Table A4/11 Ironbark Site Complex, Square L. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	1.0	1.0	0.1	0	0	0	0	0	*
2	51.4	50.4	16.3	3.9	0	0	2.4	68.5	68.4
3	109.4	58.0	17.7	0	0	0	7.4	124.9	275.0
4	136.2	26.8	8.8	0	0	0	6.3	1226.0	230.4
5	200.4	64.2	17.8	0	0	0	6.0	1014.3	756.1
6	263.0	62.6	17.0	0	0	0	2.7	562.0	796.7
7	317.4	54.4	18.0	0	0	0	2.5	3.5	278.1
8	359.2	41.8	8.8	0	0	0	0.7	2.4	32.9
9	393.4	34.2	7.3	0	0	0	0.4	7.7	19.3
10	447.6	54.2	8.4	0	0	0	0.7	45.9	18.2
11	515.4	67.8	9.0	0	0	0	0.4	0.1	11.0
12	608.2	92.8	10.4	0	0	0	1.1	0.9	21.3
13	682.4	74.2	3.5	0	0	0	2.4	2.2	31.3
Total	-	-	143.0	3.9	0	0	33.1	3058.4	2538.9

Table A4/12 Ironbark Site Complex, Square M. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	0.8	0.8	0	0	0	0	0	0	0
2	26.6	25.8	14.3	0	0	0	1.7	1206.3	53.5
3	53.8	27.2	8.4	0	0	0	2.6	108.2	77.7
4	104.8	51.0	14.3	0	0	0	0.2	1786.5	597.0
5	138.6	33.8	10.7	0	0	0	2.8	1124.2	165.9
6	167.2	28.6	8.7	0	0	0	2.8	220.2	112.6
7	207.2	40.0	19.9	0	0	0	3.6	1878.9	157.4
8	227.8	20.6	8.3	0	0	0	1.4	559.3	107.1
9	281.4	53.6	14.4	0	0	0	0.1	2037.5	193.2
10	326.2	44.8	8.9	0	0	0	2.1	3.7	72.5
11	370.0	43.8	9.0	0	0	0	0.9	1.1	40.8
12	414.0	44.0	8.0	0	0	0	1.3	1.1	15.5
13	452.8	38.8	7.5	0	0	0	0.6	1.1	6.8
14	494.6	41.8	8.0	0	0	0	0.5	0.6	8.0
15	533.8	39.2	8.0	0	0	0	0.3	0.5	11.0
16	600.2	66.4	7.5	0	0	0	1.1	3.9	11.0
17	681.0	80.8	6.5	0	0	0	0	8.0	42.9
Total	-	-	162.3	0	0	0	21.9	8941.1	1672.9

Table A4/13 Ironbark Site Complex, Square N. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	15.0	15.0	0	5.2	0	0	0.2	0	101.3
2	41.0	26.0	8.2	560.1	0.4	0	2.4	2.8	3835.8
3	69.2	28.2	9.0	338.0	*	0	2.2	2.3	7187.6
4	101.4	32.2	6.1	30.4	0.2	0	1.1	0.1	4074.7
5	130.4	29.0	9.4	6.2	0	*	0.9	0.9	7429.5
6	187.4	57.0	14.0	0.8	0	0	0.8	0	15111.9
7	230.2	42.8	11.3	0.1	0	0	0.5	0	5890.5
8	277.0	46.8	12.6	0.1	0	0	0.7	0	8546.3
Total	-	-	70.6	940.8	0.7	*	8.8	6.0	52177.6

Table A4/14 Ironbark Site Complex, Square O. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	8.2	8.2	0.8	0.1	0	0	0.2	0.1	2.1
2	39.0	30.8	11.2	10.3	0	0	1.1	*	4.4
3	83.6	44.6	15.4	14.2	2.4	0	2.2	0.1	2.5
4	114.0	30.4	10.8	73.4	19.6	0	2.1	0.1	5.0
5	144.4	30.4	11.0	24.5	0	0	4.0	0.1	2.2
6	180.8	36.4	12.2	29.0	0	0.3	12.3	*	5.9
7	219.4	38.6	12.2	14.5	0	0	8.3	0.2	7.3
8	264.8	45.4	17.1	57.2	0	0.3	15.6	0.2	9.3
9	322.8	58.0	18.3	122.0	0	0	3.4	0.8	24.5
10	356.6	33.8	10.9	0.1	0	0	0.8	0.1	35.7
11	385.6	29.0	10.8	0.2	0	0	1.4	0.5	59.6
12	458.8	73.2	24.0	*	0	0	2.1	0.8	27.6
13	527.2	68.4	24.8	0.3	0	0	1.1	0.3	9.8
Total	-	-	179.5	345.6	22.0	0.6	54.4	3.3	195.9

Table A4/15 Ironbark Site Complex, Square P. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	6.0	6.0	0.4	3.3	0	0	0.1	0	0.5
2	38.6	32.6	9.1	3.2	0.1	0	1.6	0	0.7
3	74.0	35.4	12.0	9.6	0.5	0	2.6	0	1.9
4	105.0	31.0	10.9	47.6	0	0	1.6	0.1	3.1
5	134.0	29.0	10.1	33.5	*	0	1.9	0.1	1.3
6	159.8	25.8	9.5	15.9	0	0.2	9.1	*	2.9
7	184.0	24.2	8.5	51.0	0	0	9.4	*	4.0
8	215.0	31.0	10.0	15.0	0	0	7.1	*	4.7
9	241.2	26.2	9.0	62.8	0.5	0	17.5	0.6	7.3
10	270.0	28.8	9.7	73.4	0	0	18.2	0.3	6.1
11	302.0	32.0	11.0	18.8	0	0	3.6	0.3	20.9
12	333.2	31.2	9.8	0.2	0	0	1.2	0.4	13.6
13	358.2	25.0	9.0	0.1	0	0	1.0	31.2	19.6
14	382.8	24.6	8.5	0	0	0	0.9	18.0	99.9
15	412.0	29.2	9.7	0	0	0	0.6	0	65.2
16	442.6	30.6	12.0	0	0	0	0.5	0.1	12.1
17	493.8	51.2	17.7	0	0	0	0.3	*	5.5
18	581.8	88.0	32.1	0	0	0	1.0	*	4.7
19	656.6	74.8	35.5	0	0	0	0.6	0	1.8
Total	-	-	234.5	334.4	1.1	0.2	78.9	51.3	275.9

Table A4/16 Ironbark Site Complex, Square Q. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	6.8	6.8	0	0	0	0	0	0	0
2	36.8	30.0	8.0	0.1	0	0	0.4	0	0.9
3	71.4	34.6	11.0	12.2	0	0	0.6	*	1.0
4	103.2	31.8	9.0	31.6	0	0	0.3	30.4	2.2
5	132.4	29.2	9.4	67.3	0	0	1.0	*	2.5
6	168.0	35.6	10.6	33.1	0	0	1.9	184.3	3.0
7	197.8	29.8	10.6	21.4	0	0	3.0	0.1	5.5
8	252.6	54.8	15.9	6.1	0	0	1.7	0.4	4.4
9	274.8	22.2	7.7	0.6	0	0	1.1	0.6	2.6
10	306.8	32.0	12.3	0.1	0	0	2.1	*	28.2
11	344.2	37.4	11.5	0.1	0	0	1.2	*	1.9
12	376.4	32.2	11.0	0	0	0	3.7	*	4.1
13	421.8	45.4	14.7	0.1	0	0	1.4	0.2	6.1
14	458.6	36.8	11.7	0	0	0	0.4	0	9.0
15	516.0	57.4	19.4	0.2	0	0	0.6	0.1	2.0
16	578.8	62.8	20.4	0	0	0	1.1	0	6.7
17	670.6	91.8	30.3	0.1	0	0	0.7	0	0.3
Total	-	-	213.6	173.0	0	0	21.1	216.2	80.4

Table A4/17 Ironbark Site Complex, Square R. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	1.2	1.2	0	0.3	0	0	0	0	0
2	17.2	16.0	3.7	0.1	0	0	0.1	0	0.2
3	40.6	23.8	6.4	0.2	0	0	0.4	0	0.5
4	74.4	33.8	11.9	8.2	0	0	0.7	0	1.2
5	102.8	28.4	7.1	17.2	0	0	0.5	0.1	0.7
6	131.0	28.2	9.3	5.1	0	0	1.0	0.1	1.5
7	154.8	23.8	8.8	4.1	0	0	2.7	0.5	2.3
8	177.4	22.6	7.6	0.9	0	0	2.1	0.1	0.8
9	203.6	26.2	8.6	6.3	0	0	7.1	*	1.1
10	237.6	34.0	11.8	0	0	0	3.9	0	1.8
11	268.2	30.6	9.8	0.1	0	0	0.8	0	1.2
12	297.2	29.0	8.8	4.0	0	0	0.7	0.1	1.6
13	337.6	40.4	14.8	0	0	0	1.2	0	2.1
14	367.4	29.8	10.1	0	0	0	0.9	0	4.8
15	394.6	27.2	8.8	0	0	0	0.6	0.2	3.3
16	450.0	55.4	20.2	0	0	0	0.8	0	7.8
17	499.8	49.8	19.0	0	0	0	0	0	4.0
18	548.0	48.2	16.0	0	0	0	0.5	0	2.8
19	621.8	73.8	25.2	0	0	0	0.3	0	1.4
20	662.4	40.6	14.5	0	0	0	0.1	0	0.2
Total	-	-	221.9	46.5	0	0	24.3	1.2	39.3

Table A4/18 Eurimbula Creek 1, Square A. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	34.0	34.0	10.7	179.1	0.4	*	1.1	0	14.0
2	60.2	26.2	10.0	51.2	0	0	1.5	0	9.1
3	84.6	24.4	11.4	14.8	0	0	1.1	0	14.4
4	110.8	26.2	9.6	0.2	0	0	0.3	0	2.7
5	136.6	25.8	10.4	0.1	0	*	0.2	0	0.7
Total	-	-	52.1	245.3	0.4	*	4.1	0	40.9

Table A4/19 Eurimbula Creek 1, Square B. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	5.2	5.2	1.0	*	0	0	0	0	0
2	115.0	109.8	8.3	27.9	0	0	2.7	0	26.8
3	144.2	29.2	2.9	65.1	0	0	1.4	0	19.3
4	162.2	18.0	2.2	194.8	0	*	0.7	0	5.4
5	191.4	29.2	3.4	85.9	0	0	1.0	0	4.4
6	251.0	59.6	13.5	120.4	0	0.1	4.4	0	37.5
7	287.2	36.2	10.7	5.3	0	0	1.2	0	43.4
8	328.2	41.0	11.5	0.4	0	0	0.6	0	4.5
9	370.0	41.8	12.3	*	0	0	0.4	0	8.3
10	396.2	26.2	8.3	*	0	0	0.2	0	3.1
11	419.4	23.2	7.4	0	0	0	0.1	0	2.9
Total	-	-	81.5	499.8	0	0.1	12.7	0	155.7

Table A4/20 Eurimbula Creek 1, Square C. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	1.8	1.8	0.3	0	0	0	0.1	0	0.4
2	30.6	28.8	5.3	1.2	0	0	0.5	0	2.8
3	74.8	44.2	12.9	13.2	0	0	1.6	0	30.4
4	115.6	40.8	12.3	12.7	0	0	2.0	0	35.2
5	149.2	33.6	10.7	41.2	0	0	2.9	0	54.5
6	183.0	33.8	10.1	76.6	0	*	3.4	0	49.9
7	218.4	35.4	10.9	80.2	0	0	5.4	0	28.3
8	248.6	30.2	9.7	45.0	0	0	2.3	0	97.9
9	279.6	31.0	10.4	15.4	0	0	0.8	0	20.0
10	314.2	34.6	10.7	2.2	0	0	1.4	0	21.2
11	337.0	22.8	9.7	0.2	0	0	1.2	0	15.7
12	369.0	32.0	11.2	0.2	0	0	1.2	0	8.4
13	393.2	24.2	10.0	0	0	0	0.4	0	8.2
14	424.0	30.8	11.4	0	0	0	0.5	0	9.1
15	468.2	44.2	16.5	*	0	0	0.2	0	7.1
Total	-	-	152.1	288.2	0	*	23.9	0	389.2

Table A4/21 Eurimbula Creek 1, Square D. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	4.0	4.0	0.4	0	0	0	0.1	0	0
2	40.8	36.8	4.5	1.8	0	0	0.2	0	1.5
3	88.6	47.8	13.4	9.6	0	0	1.6	0	30.0
4	127.2	38.6	11.6	29.9	0	0	1.8	0	43.0
5	168.6	41.4	12.7	96.6	0	0	3.5	0	63.0
6	201.0	32.4	11.5	67.6	0	0	4.9	0	61.1
7	233.6	32.6	10.2	33.6	0	0	8.1	0	41.3
8	264.0	30.4	10.9	22.3	0	0	3.7	0	47.4
9	286.6	22.6	7.9	6.5	0	*	3.7	0	23.1
10	320.4	33.8	10.7	28.3	0	0	2.7	0	31.2
11	349.8	29.4	10.4	0.6	0	0	1.9	0	30.6
12	375.8	26.0	8.7	0	0	0	0.9	0	14.4
13	404.2	28.4	9.2	0	0	0	0.6	0	8.3
14	437.2	33.0	12.1	0	0	0	0.5	0	18.1
15	463.6	26.4	9.5	0.1	0	0	0.5	0	7.7
16	516.6	53.0	18.8	0	0	0	1.0	0	8.2
Total	-	-	162.5	296.9	0	*	35.8	0	429.0

Table A4/22 Eurimbula Creek 2, Square A. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	5.2	5.2	0.6	4.7	0	0	0.3	0	0
2	34.4	29.2	9.7	44.7	0	0	1.1	0	0.2
3	64.2	29.8	8.2	12.2	0	0	1.0	0	0
4	88.8	24.6	9.4	28.2	0	0	2.5	0	0.1
5	131.0	42.2	14.5	33.4	0	0	6.5	0	1.1
6	163.2	32.2	10.8	31.5	0	0	2.8	0	0.2
7	194.8	31.6	11.2	3.9	0	0	1.0	0	0.2
8	227.4	32.6	11.9	17.4	0	0	0.5	0	0.1
9	257.0	29.6	11.6	18.0	0	0	0.4	0	2.1
10	276.8	19.8	9.7	1.9	0	0	0.2	0	1.2
11	308.0	31.2	8.9	1.2	0	0	0.1	0	0.1
12	339.8	31.8	13.1	0	0	0	0.1	0	1.1
13	375.2	35.4	14.2	0	0	0	0.1	0	1.3
14	405.2	30.0	10.6	0	0	0	0.1	0	0.3
15	456.8	51.6	22.8	4.3	0	0	0.4	0	2.6
Total	-	-	167.2	201.3	0	0	20.9	0	10.5

Table A4/23 Eurimbula Site 1, Square A. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	2.0	2.0	0.2	0.4	0	0	0.2	0	0
2	32.2	30.2	7.4	43.9	0	0	2.8	0	0.5
3	59.8	27.6	8.5	63.7	0	0.1	5.8	0	0.5
4	96.8	37.0	12.9	347.9	0	0.3	6.4	0.1	0.7
5	124.4	27.6	10.1	475.1	0	1.6	8.2	0.1	0.8
6	157.0	32.6	10.2	200.7	0	2.2	7.1	0	0.4
7	183.8	26.8	10.4	74.7	0	0.8	6.4	0.2	0.9
8	218.6	34.8	10.2	37.5	0	0.4	6.6	0	0.6
9	247.8	29.2	10.6	29.3	0	0.2	4.8	0	0.7
10	277.6	29.8	9.9	31.1	0	0.3	6.0	*	5.2
11	305.8	28.2	9.9	51.2	0	0.1	5.0	0	0.5
12	335.0	29.2	9.6	22.4	0	0.1	4.7	0	0.5
13	362.6	27.6	11.9	56.8	0	0.1	7.7	0.1	0.5
14	396.0	33.4	11.0	9.3	0	0.1	7.5	0	0.5
15	415.8	19.8	8.6	1.6	0	*	4.2	0.1	0.5
16	436.6	20.8	6.5	6.8	0	0.1	2.6	0.1	0.1
17	466.4	29.8	9.8	3.8	0	0	0.7	1.8	0.4
18	497.0	30.6	10.1	2.0	0	0	2.9	0.2	0.3
19	525.8	28.8	10.6	0.1	0	0	2.3	0.2	0.2
20	555.6	29.8	9.9	0.1	0	0	2.5	0	0.2
21	585.4	29.8	9.8	0.3	0	*	1.7	0	0.8
22	616.2	30.8	9.9	0.4	0	*	1.3	0	1.1
23	648.2	32.0	9.3	0	0	0	1.7	0	0.7
24	711.0	62.8	25.4	0.4	0	*	7.8	0.1	0.6
25	776.0	65.0	21.9	0	0	0	11.6	0	0.8
Total	-	-	264.3	1459.6	0	6.6	118.6	2.9	18.0

Table A4/24 Eurimbula Site 1, Square B. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	3.4	3.4	0.2	0.1	0	0	*	0	*
2	44.6	41.2	9.9	94.2	0	*	10.6	0.2	0.3
3	75.0	30.4	9.0	587.0	0	0.7	5.8	0	0.5
4	104.0	29.0	9.1	474.4	0	4.0	10.8	0.3	1.4
5	138.6	34.6	9.2	130.6	0	0.8	11.8	0	0.5
6	171.6	33.0	10.7	54.9	0	0.6	11.3	7.4	0.4
7	194.8	23.2	9.9	30.3	0	0.4	7.0	0	0.6
8	237.0	42.2	11.0	54.1	0	*	6.9	0	0.5
9	273.8	36.8	12.8	34.7	0	0.1	10.0	0.8	0.7
10	304.6	30.8	9.8	48.6	0	0.4	5.7	0	0.5
11	344.0	39.4	11.7	252.9	0	0.1	7.9	0.1	5.5
12	380.4	36.4	11.0	289.4	0	*	7.5	0.1	1.0
13	414.8	34.4	11.2	26.6	0	*	8.8	0.4	1.2
14	453.6	38.8	12.0	1.8	0	0.4	11.6	0	0.9
15	461.6	8.0	2.0	3.2	0	0	0.9	0	0.1
16	488.0	26.4	8.3	1.8	0	*	4.2	0	11.3
17	513.0	25.0	9.3	0.4	0	0.1	3.1	0.2	35.8
18	542.4	29.4	11.3	1.0	0	0	1.4	1.9	0.3
19	575.6	33.2	13.3	*	0	*	1.6	14.3	0.7
20	613.0	37.4	13.1	0.3	0	*	1.1	0	0.5
21	642.8	29.8	10.9	*	0	*	0.6	0	0.5
22	673.0	30.2	10.4	0.1	0	0	0.4	0	0.2
23	734.8	61.8	22.3	1.5	0	0	0.6	0.1	1.3
24	804.8	70.0	27.7	8.4	0	0	4.0	0	0.7
Total	-	-	266.1	2096.4	0	7.6	133.8	25.9	65.4

Table A4/25 Eurimbula Site 1, Square C. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	2.2	2.2	0.3	2.5	0	0	0.3	0	*
2	29.6	27.4	8.9	73.0	0	0.1	3.4	0	0.3
3	53.2	23.6	7.5	92.8	0	0.1	0	1.2	0.6
4	75.8	22.6	7.8	517.8	0	0.3	4.1	0.1	0.7
5	106.8	31.0	9.6	501.5	0	2.0	12.0	0.4	2.6
6	134.0	27.2	9.9	122.0	0	4.0	9.9	0.5	1.6
7	167.2	33.2	10.0	112.5	0	1.2	7.8	0.3	51.0
8	193.8	26.6	10.4	72.9	0	0.5	3.6	0	1.2
9	226.4	32.6	10.2	111.7	0	0.3	3.9	0	0.4
10	255.4	29.0	12.1	87.4	0	0.1	5.3	0	0.7
11	287.0	31.6	10.8	45.9	0	0.1	3.5	0.1	0.7
12	316.6	29.6	9.9	14.1	0	*	3.6	0.1	0.4
13	348.6	32.0	11.7	54.8	0	*	3.6	0	0.8
14	377.0	28.4	11.4	86.3	0	*	3.5	0	0.4
15	417.8	40.8	11.1	20.9	0	0	5.4	0.1	0.3
16	437.4	19.6	11.8	2.1	0	*	5.8	0.1	0.5
17	469.0	31.6	13.0	0.7	0	0	6.5	0.3	0.4
18	489.0	20.0	6.8	0	0	0	2.7	0	0.1
19	518.4	29.4	9.9	0	0	0	3.6	1.2	0.2
20	541.4	23.0	8.7	0	0	*	2.2	0	0.3
21	565.6	24.2	9.3	0	0	*	1.4	0	0.2
22	595.2	29.6	10.7	0	0	0	1.0	0.4	0.6
23	628.2	33.0	11.2	0	0	*	0.7	0	0.5
24	658.2	30.0	11.3	0	0	0	0.5	0	0.6
25	731.8	73.6	25.8	0	0	0	0.7	0	0.6
26	802.6	70.8	22.4	0	0	0	1.0	0	0.5
Total	-	-	282.5	1919.3	0	8.7	96.1	4.6	66.3

Table A4/26 Eurimbula Site 1, Square D. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	5.6	5.6	0.3	1.0	0	0	0.1	0	0
2	9.8	4.2	8.6	39.3	0	*	2.6	0.1	0.4
3	70.8	61.0	9.3	91.2	0	*	9.3	0	0.6
4	99.0	28.2	8.4	322.3	0	0.3	5.1	0.1	0.9
5	136.2	37.2	10.4	309.5	0	2.0	9.8	0	4.3
6	171.8	35.6	10.2	99.4	0	0.9	12.0	0	0.8
7	203.4	31.6	9.0	160.5	0	1.4	10.6	0	32.1
8	239.8	36.4	11.3	38.0	0	*	7.9	1.1	0.6
9	274.0	34.2	10.8	74.8	0	0.2	4.9	0.8	0.6
10	310.2	36.2	10.9	16.8	0	*	7.6	0	1.0
11	345.2	35.0	11.9	14.3	0	0.2	5.0	0.1	0.2
12	387.0	41.8	13.2	19.4	0	0.1	7.2	51.0	1.4
13	420.0	33.0	11.4	0.5	0	*	5.3	78.4	8.9
14	455.0	35.0	10.6	0.1	0	0	6.9	0	0.6
15	479.2	24.2	7.9	2.2	0	*	6.7	0	0.2
16	509.6	30.4	10.7	2.1	0	0	3.6	0.1	0.4
17	538.6	29.0	11.5	0.2	0	0	3.3	0	1.3
18	567.2	28.6	9.8	0.3	0	0	2.4	0	0.5
19	599.2	32.0	10.9	*	0	0	3.2	1.1	0.9
20	629.0	29.8	10.6	0	0	0	4.2	0	0.3
21	661.8	32.8	12.8	0	0	0	8.8	0	0.3
22	731.2	69.4	24.7	0.1	0	0	51.8	0	1.1
23	797.0	65.8	21.5	0	0	0	104.4	0	0.5
Total	-	-	256.6	1192.0	0	5.1	282.9	132.8	58.0

Table A4/27 Tom's Creek Site Complex, Square A. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	1.8	1.8	0.1	0.3	0	0	0.2	0	*
2	49.4	47.6	15.3	201.2	0	0	7.7	0.2	127.4
3	91.4	42.0	12.0	264.1	0	0.3	11.6	7.7	5.4
4	120.2	28.8	9.5	139.6	0	0.1	7.4	0.8	42.3
5	156.0	35.8	11.0	120.6	0	0	5.2	0.1	12.8
6	188.8	32.8	9.9	187.8	0	0.1	5.3	1.9	0.9
7	238.4	49.6	12.5	337.1	4.2	1.1	6.9	0.8	12.3
8	275.4	37.0	11.5	551.6	0	4.0	7.2	5.4	99.4
9	317.8	42.4	12.5	483.4	0	1.9	6.0	17.7	2.1
10	355.6	37.8	12.0	256.4	0	0.6	4.5	1.2	0.9
11	399.0	43.4	12.1	253.4	0	0.6	6.4	0.5	14.0
12	433.2	34.2	11.4	285.9	0	1.6	12.3	1.9	14.9
13	468.6	35.4	10.4	77.7	0	1.8	7.9	0.8	0.5
14	501.8	33.2	11.8	41.4	0	0.6	5.6	0.6	100.5
15	536.6	34.8	11.3	52.2	0	0.1	6.1	0.2	0.7
16	564.0	27.4	10.8	19.9	0	*	5.3	0.6	1.2
17	599.6	35.6	12.1	0.8	0	0.1	3.9	0.8	3.4
18	635.6	36.0	11.6	2.5	0	0.1	7.3	0.1	3.0
19	678.4	42.8	12.8	0.1	0	0.1	0.9	2.8	2.1
20	709.4	31.0	11.8	0.1	0	0	1.4	0.2	0.6
21	746.8	37.4	11.0	0.1	0	0.1	1.7	0.1	1.1
22	826.2	79.4	25.7	0.1	0	0	1.2	0	9.8
23	895.0	68.8	21.0	0.1	0	*	0.5	*	1.1
Total	-	-	280.1	3276.5	4.2	13.1	122.7	44.4	456.4

Table A4/28 Tom's Creek Site Complex, Square B. *= <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	1.2	1.2	0.2	45.5	0	0	0.3	0	0
2	29.4	28.2	9.8	161.3	0	0.6	5.6	10.3	4.7
3	65.0	35.6	10.7	236.6	0.3	0.5	8.9	3.8	2.3
4	99.6	34.6	10.4	286.2	0	0.7	8.1	0.9	2.5
5	137.2	37.6	11.7	258.7	0	0.4	8.1	0.7	35.7
6	179.2	42.0	10.6	198.0	0	0.4	7.0	1.8	4.1
7	209.4	30.2	11.9	248.7	0	0.4	7.2	0.5	0.6
8	241.2	31.8	11.2	333.6	0	0.6	6.6	5.3	9.0
9	281.6	40.4	11.2	445.3	1.1	0.6	5.6	9.2	24.0
10	323.8	42.2	13.5	177.4	0.7	0.5	5.6	0.8	3.1
11	360.0	36.2	12.5	163.9	0.3	1.1	7.3	1.2	3.2
12	397.4	37.4	11.9	214.8	0.5	1.5	17.4	16.5	0.9
13	434.6	37.2	11.8	126.8	0	1.8	10.3	4.1	3.0
14	472.4	37.8	12.0	34.9	0	0.4	7.7	0	22.4
15	515.4	43.0	13.5	1.2	0	0.1	5.1	0.5	0.9
16	546.0	30.6	12.1	2.8	0	0.2	2.2	4.1	0.9
17	592.2	46.2	13.8	3.5	0	*	1.8	0.4	7.5
18	616.8	24.6	9.9	0.3	0	*	1.3	0.1	5.3
19	658.4	41.6	14.5	4.0	0	*	1.5	0.4	2.5
20	691.6	33.2	12.4	0.1	0	*	0.9	*	0.8
21	728.0	36.4	11.4	0.1	0	0	0.6	*	123.6
22	756.4	28.4	11.5	*	0	0	0.4	0.1	142.1
23	847.0	90.6	26.9	0.1	0	*	0.7	0	259.7
24	905.4	58.4	20.8	0.1	0	0	0.4	0	0.6
Total	-	-	296.2	2944.1	2.9	9.9	120.6	60.6	659.4

Table A4/29 Tom's Creek Site Complex, Square C. *= <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	0.6	0.6	0.1	6.8	0	0.1	0.6	0	0
2	58.6	58.0	19.3	366.9	0	1.0	0	5.2	13.7
3	86.2	27.6	9.1	170.6	0	0.3	9.1	0.7	52.5
4	125.4	39.2	11.9	181.3	0	1.3	10.6	3.2	31.4
5	167.0	41.6	14.8	371.7	0	1.0	8.6	4.8	5.0
6	199.8	32.8	11.4	215.9	0	0.4	5.8	0.4	1.6
7	229.6	29.8	11.8	223.6	0	0.6	6.0	1.0	1.3
8	274.2	44.6	11.7	130.3	0	0.7	5.4	2.4	1.3
9	302.8	28.6	11.0	124.1	0	0.2	4.2	0.2	0.5
10	332.2	29.4	12.0	161.0	0.2	0.6	7.7	0.6	1.3
11	361.0	28.8	9.7	262.5	0.4	0.8	7.6	0.2	4.0
12	392.6	31.6	11.6	143.3	0	1.1	14.1	1.8	0.8
13	426.8	34.2	11.7	217.6	0	1.4	20.9	3.4	2.3
14	454.0	27.2	11.6	36.4	0	0.6	18.2	4.7	2.3
15	494.4	40.4	12.4	29.3	0	0.7	13.7	0.4	153.3
16	523.6	29.2	11.7	12.7	0	0.1	5.1	0.1	0.7
17	557.6	34.0	12.9	4.1	0	0.1	3.8	0.1	0.4
18	612.6	55.0	23.5	0.4	0	*	3.4	1.2	2.1
19	654.2	41.6	15.0	0.2	0	*	2.0	0	2.3
20	687.0	32.8	11.8	*	0	0	1.7	0	1.8
21	718.2	31.2	11.7	*	0	*	1.4	0	36.5
22	757.4	39.2	13.0	0	0	0	0.7	0	89.0
23	834.0	76.6	27.5	*	0	0	0.7	0	1.6
24	897.0	63.0	22.1	0	0	0	0.4	0	0.2
Total	-	-	319.3	2658.8	0.5	10.9	151.6	30.5	405.8

Table A4/30 Tom's Creek Site Complex, Square D. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	2.8	2.8	0.1	0.1	0	0	*	0	0
2	44.6	41.8	12.3	224.4	0	0.3	14.3	1.9	0.6
3	74.4	29.8	9.8	245.6	0	0.1	20.3	0.1	1.9
4	105.2	30.8	10.2	124.8	0	0.1	3.5	0.9	8.2
5	135.8	30.6	10.2	196.4	0	0	5.5	0.2	3.6
6	184.8	49.0	14.5	325.6	0	0.5	7.7	0.9	2.9
7	222.4	37.6	12.0	230.8	0	0.7	6.0	0.4	0.7
8	255.2	32.8	11.7	210.7	0	1.1	4.9	4.5	1.1
9	293.8	38.6	12.2	156.1	0.1	0.5	4.7	0.3	2.3
10	334.4	40.6	13.2	14.6	0.2	0.3	5.1	0.3	12.5
11	364.0	29.6	11.5	103.5	0.4	0.8	5.8	0.1	27.1
12	397.0	33.0	11.0	123.6	0.1	0.4	9.1	0.4	0.8
13	441.2	44.2	14.3	222.7	0	2.2	15.8	3.2	1.9
14	478.8	37.6	12.0	79.3	0	1.6	15.7	42.8	51.3
15	522.8	44.0	14.5	58.6	0	0.8	11.2	2.0	0.8
16	557.0	34.2	11.9	8.0	0	0.1	4.9	0.7	1.0
17	595.0	38.0	11.1	0	0	0	3.2	9.5	0.7
18	640.2	45.2	16.9	1.6	0	0	3.3	1.2	6.9
19	677.4	37.2	11.3	*	0	*	1.2	*	29.2
20	709.6	32.2	11.7	0.1	0	0.1	3.2	0.2	24.4
21	747.0	37.4	13.6	0.1	0	0	1.6	0	3.2
22	824.0	77.0	24.9	0	0	0	1.4	0	12.0
23	883.8	59.8	19.2	*	0	0	0.6	0	7.4
Total	-	-	290.1	2426.5	0.8	9.6	149.1	69.6	200.7

Table A4/31 Tom's Creek Site Complex, Square R. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	2.4	2.4	0.1	0.1	0	0	0.1	0	0
2	32.4	30.0	9.9	9.9	0	0	0.3	0.1	0.1
3	67.6	35.2	11.3	74.4	0	0	1.0	1.0	1.5
4	101.0	33.4	10.0	170.1	0	0.1	4.1	0.5	2.7
5	133.6	32.6	11.1	175.3	0	0	9.3	1.0	7.2
6	166.2	32.6	10.1	221.3	0	0	13.6	0.4	2.2
7	209.4	43.2	14.1	421.4	0	0	17.9	1.1	7.6
8	238.6	29.2	7.8	456.2	0	0.3	8.6	11.1	9.0
9	269.0	30.4	12.1	472.2	0	0.1	12.2	1.3	8.9
10	315.0	46.0	13.7	98.0	0	0	9.8	0.1	17.6
11	351.2	36.2	13.2	200.5	0	0	5.2	3.6	60.4
12	406.2	55.0	15.8	11.6	0	0	1.8	0.1	47.8
13	447.6	41.4	13.4	0.3	0	0	2.0	0	5.1
14	488.0	40.4	13.6	*	0	0	0.4	0	9.1
15	532.0	44.0	13.5	*	0	0	0.1	0	1.3
16	568.6	36.6	12.1	0.2	0	0	0.1	0	0.2
17	603.4	34.8	10.8	0	0	0	0.1	0.3	0.1
18	667.8	64.4	20.8	*	0	0	0.1	0.9	0.9
Total	-	-	213.4	2311.5	0	0.5	86.7	21.6	181.7

Table A4/32 Tom's Creek Site Complex, Square S. * = <0.1g.

XU	MAX. DEPTH (mm)	MEAN SIZE (mm)	WEIGHT (kg)	SHELL (g)	CRUSTACEAN (g)	BONE (g)	CHARCOAL (g)	STONE ARTEFACTS (g)	OTHER STONE (g)
1	2.6	2.6	0.1	0	0	0	0	0	0.8
2	39.0	36.4	10.6	50.6	0	0	0.6	0.1	0.5
3	88.8	49.8	13.1	93.5	0	0	10.5	0	0.7
4	124.6	35.8	10.0	179.8	0	0.4	3.3	0	2.5
5	164.0	39.4	10.5	262.9	0	0	11.4	0	3.2
6	202.2	38.2	10.2	331.1	0	*	14.2	0.2	6.7
7	205.2	3.0	1.9	13.2	0	0	0	*	43.6
8	239.6	34.4	9.7	736.1	0	0	13.3	4.1	132.0
9	280.8	41.2	12.1	451.3	0	0	18.1	10.7	10.8
10	317.0	36.2	11.6	44.8	0	*	12.9	0.3	9.8
11	350.2	33.2	11.1	292.9	0	*	6.2	0.1	135.1
12	386.2	36.0	11.8	15.5	0	0	2.0	0	43.9
13	419.2	33.0	11.0	1.6	0	0	0.3	*	1.1
14	459.2	40.0	13.7	1.9	0	0	0.2	0	5.7
15	497.6	38.4	13.1	0	0	0	0.1	0	0.4
16	532.2	34.6	11.3	0	0	0	*	0	0.1
17	572.2	40.0	12.3	0	0	0	0.1	0.1	3.8
18	608.4	36.2	12.4	0	0	0	*	*	0.6
19	671.6	63.2	21.8	0	0	0	0.1	0.7	0.4
Total	-	-	208.3	2475.2	0	0.4	93.2	16.2	401.8

Appendix 5: Shellfish reference collection*

FAMILY	SPECIES	COMMON NAME/S	PREFERRED ENVIRONMENT/SIZE
MARINE BIVALVIA			
Anomiidae	<i>Anomia trigonopsis</i>	(Hutton, 1877) jingle shell	To 10m among shell debris; to 75mm
Arcidae	<i>Anadara trapezia</i>	(Deshayes, 1840) Sydney cockle; blood cockle; mud ark	Intertidal mangroves; estuarine tidal flats; seagrass beds; to 70mm
Cardiidae	<i>Acrosterigma vertebratum</i>		In muddy sand of intertidal flats
Carditiidae	<i>Venericardia</i> sp.		In sand in shallow water
Chamidae	<i>Chama fibula</i>	(Reeve, 1846) spiny oyster	Attached to shell or coral debris to 10m; to 30mm
Corbulidae	<i>Corbula (Serracorbula) crassa</i>	(Reeve, 1843)	Sandy/muddy substrates; to 18mm
Donacidae	<i>Donax (Plebidonax) deltoides</i>	(Lamarck, 1818) pipi; eugarie; wong	Littoral sand; to 60mm
Mastridae	<i>Mactrid</i> sp.		Littoral sand
Mytilidae	<i>Trichomya hirsutus</i>	(Lamarck, 1819) hairy mussel	Tidal estuary; attached to rocks from low tide level to 16m; to 65mm
Noetiidae	<i>Arcopsis deliciosa</i>	(Iredale, 1939)	Rocky substrates to 81m; to 10mm
Noetiidae	<i>Arcopsis symmetrica</i>	(Reeve, 1844)	Rocky substrates; shallow water; to 16mm
Ostreidae	<i>Saccostrea glomerata</i> syn. <i>S. cucullata</i> syn. <i>S. commercialis</i>	(Gould, 1850) Sydney rock oyster; rock oyster; commercial oyster	Sheltered rocky shores and mangroves; mid-intertidal; to 100mm
Pteriidae	<i>Pinctada albina sugillata</i>	(Reeve, 1857) pearl oyster	Attached to rocks and corals to 22m; to 110mm
Tellinidae	<i>Tellina</i> sp.		Littoral sand
Tellinidae	<i>Tellina (Cyclotellina) remies</i>	(Linnaeus, 1758)	Littoral sand; to 70mm
Trapeziidae	<i>Trapezium (Neotrapezium) sublaevigatum</i>	(Lamarck, 1819)	Littoral shell debris, coral crevices or in oyster clumps; 3-10m; to 65mm
Ungulinidae	<i>Felaniella (Zemysia) subglobosa</i> syn. <i>F. subglobosa</i>	(E.A. Smith, 1885)	Coral/mud to 13m; to 4.5mm
Veneridae	<i>Antigona chemnitzii</i>	(Hanley, 1844)	Littoral sand; to 100mm
Veneridae	<i>Dosinia tumida</i>	(Gray, 1838)	Littoral sand; to 58mm
Veneridae	<i>Gafrarium australe</i>	(Sowerby, 1850)	Intertidal, muddy sand; to 25mm
Veneridae	<i>Irus</i> sp.		Intertidal and subtidal sandy/rocky areas
Veneridae	<i>Placamen</i> sp.		Littoral sand
Veneridae	<i>Venerid</i> sp.		Littoral sand
MARINE GASTROPODA			
Batillariidae	<i>Pyrazus ebininus</i>	(Bruguère, 1792) hercules club whelk	Mudflats/mangrove swamps; to 110mm
Batillariidae	<i>Velacumantus australis</i> syn. <i>Batillaria australis</i>	(Quoy & Gaimard, 1834) Australian mud whelk; mud creeper	Sandy estuarine substrates among algae/seagrass/mangroves; to 35mm
Cerithiidae	<i>Cerithid</i> sp.		Sandy intertidal/shallow subtidal
Cerithiidae	<i>Cerithium</i> sp.	creeper	Intertidal/shallow subtidal in sandy areas
Cerithiidae	<i>Clypeomoros bifasciata</i>	(Sowerby, 1855)	Intertidal/shallow subtidal in sandy areas
Colubrariidae	<i>Colubraria maculosa</i>	(Gmelin, 1791) giant false triton	to 90mm
Columbellidae	<i>Zafra avicennia</i>	(Hedley, 1914)	On rocks or sand in shallow water; to 5mm
Conidae	<i>Conus</i> sp.		In sand in shallow water
Costellariidae	<i>Vexillum</i> sp.		Intertidal/subtidal sand/rock/coral

continued over

Appendix 5: continued

FAMILY	SPECIES	COMMON NAME/S	PREFERRED ENVIRONMENT/SIZE
Cypraeidae	<i>Cypraea</i> sp.	cowrie	Muddy rocks inshore
Ellobiidae	<i>Ophicardelus sulcatus</i>	(H. & A. Adams, 1855)	Intertidal and above high tide mark on rocks in mudflat areas/mangrove swamps
Epitoniidae	<i>Epitonium</i> sp.		Among rocks on coral; subtidal in sand
Fascioliariidae	<i>Fascioliariid</i> sp.		In sand or coral
Fascioliariidae	<i>Latirus</i> sp.		Intertidal/subtidal sand to coral
Fissurellidae	<i>Diodora ticaonica</i>	(L.A. Reeve, 1850)	Intertidal/shallow subtidal on rocks; to 22mm
Lottiidae	<i>Acmaeid</i> sp.		On rocks in intertidal zone
Littorinidae	<i>Bembicium nanum</i>	(Lamarck, 1822) periwinkle	Intertidal, rocky reefs; to 12mm
Littorinidae	<i>Littoraria</i> sp.	periwinkle	On rocks or mangroves in intertidal zone
Mitridae	<i>Mitra</i> sp.		Subtidal in sand or mud
Muricidae	<i>Bedevea paivae</i> syn. <i>B. hanleyi</i>	(Crosse, 1864) oyster drill	Muddy habitats in lower intertidal/shallow subtidal zone; to 20mm
Muricidae	<i>Morula marginalba</i>	(Blainville, 1832) mulberry whelk	Intertidal and subtidal on rocky shores/rocky reefs often on oyster beds; to 30mm
Nassariidae	<i>Nassarius burchardi</i>	(Dunker in Philippi, 1849) dog whelk	Intertidal sand and mudflats; to 12mm
Nassariidae	<i>Nassarius pauperus</i>	(Gould, 1850)	Intertidal/shallow subtidal, sand flats; to 14mm
Naticidae	<i>Natica</i> sp.		In sand or mud
Neritidae	<i>Nerita balteata</i> syn. <i>N. lineata</i>	(Reeve, 1855) common nerite	On and in logs; on prop roots and on lower trunks of mangroves; to 40mm
Neritidae	<i>Nerita squamulata</i>	(Guillou, Le, 1841) variable nerite	Rock platforms; intertidal zone; to 35mm
Planaxidae	<i>Planaxis sulcatus</i>	(Born, I. von, 1778)	Intertidal on rocks; 18-35mm
Potamididae	<i>Telescopium telescopium</i>	(Linnaeus, 1758) telescope mud whelk	Mudflats/mangrove swamps; to 110mm
Skeneidae	<i>Pseudoliotia</i> sp.		Under rocks intertidal/shallow subtidal zones
Triphoridae	<i>Metaxia</i> sp.		Shallow to deep water, in sponges
Triphoridae	<i>Subulphora</i> sp.		
Trochidae	<i>Herpetopoma atrata</i> syn. <i>Echelus atratus</i> syn. <i>Euchelus atratus</i>	(Gmelin, 1791) beaded top shell	Intertidal rocky reefs; 15-20mm
Trochidae	<i>Thalotia</i> sp.		Intertidal, rocky reefs/shores
TERRESTRIAL GASTROPODA			
Camaenidae	<i>Figuladra</i> sp.		Coastal vine thicket
Camaenidae	<i>Trachiopsis mucosa</i>		
Pupillidae	<i>Pupoides pacificus</i>		Coastal vine thicket
Subulinidae	<i>Eremopeas tuckeri</i>	(Pfeiffer, 1846)	Coastal vine thicket in leaf litter
FRESHWATER BIVALVIA			
Corbiculidae	<i>Corbicula (Corbiculina) australis</i>	(Deshayes, 1830)	Coastal rivers and streams; to 20mm
Mutelidae	<i>Velesunio ambiguus</i>	(Philippi, 1847)	
Mutelidae	<i>Alathyria pertexta</i>	(Iredale, 1934)	

* Details after Coleman 1981; Lamprell and Healy 1998; Lamprell and Whitehead 1992; Wilson and Gillet 1979.