



## Further Information regarding West Head and the West Head Geotrail in the Ku-ring-gai GeoRegion

### References

Adamson D., Selkirk P.M. and Mitchell P. 1983. The role of fire and lyre birds in the sandstone landscape of the Sydney Basin. In: R.W. Young and G.C. Nanson (Eds). *Aspects of Australian sandstone landscapes*. Australian and New Zealand Geomorphology Group Special Publication No 1. 81-93

Albani A.D., Rickwood P.C., Quilty P.G. and Tayton J.W. 2015. The morphology and late Quaternary paleogeomorphology of the continental shelf off Sydney, NSW. *Australian Journal of Earth Sciences* 62(6): 681- 694

Ashley G.M., and Duncan I.J. 1977. The Hawkesbury Sandstone: A critical review of proposed environmental models. *Geological Society of Australia Journal*, 24(2): 117-119

Attenbrow V. 2010. *Sydney's Aboriginal past: investigating the archaeological and historical records*. University of NSW Press. 264p.

Beadle N.C.W. 1966. Soil Phosphate and its role in molding segments of the Australian flora and vegetation, with special reference to xeromorphy and sclerophylly. *Ecology*. 47: 992-1007

Bellgard S.E. 1991. Mycorrhizal associations of plant species in Hawkesbury Sandstone vegetation. *Australian Journal of Botany* 39: 357-364.

Benson D.H. 1985. Maturation periods for fire-sensitive shrub species in Hawkesbury Sandstone vegetation. *Cunninghamia* 13: 339-349.

Benson D. 2024. Vegetation patterns across the Sydney Basin during the Last Glacial Maximum based on plant biogeography, ecology, geomorphology and climate. *Proceedings of the Linnean Society of New South Wales* 146: 1-47.

Benson D. and Howell J. 1994. The natural vegetation of the Sydney 1:100,000 map sheet. *Cunninghamia* 3: 677-787.

Bishop P.M., Mitchell P.B. and Paton T.R. 1980. The formation of Duplex soils on hillslopes in the Sydney Basin, Australia. *Geoderma* 23: 175-189.

Blong R.J.M., Riley S.J. and Crozier P. 1982. Sediment yield from runoff plots following bushfire near Narrabeen Lagoon, New South Wales. *Search* 13: 36-39.

Bourman R. P. 1993. Perennial problems in the study of laterite: A review. *Australian Journal of Earth Sciences*, 40(4): 387–401.

Branagan D.F. 1968. A tessellated platform. Ku-ring-gai Chase, N.S.W. *Journal and Proceedings of the Royal Society of New South Wales* 101: 129-133.

Branagan D.F. 1983. The Sydney Basin and its vanished sequence. *Geological Society of Australia Journal*, 30(1): 75-84

Branagan D.F. 1983. Tessellated pavements. In: R.W. Young and G.C. Nanson (Eds). *Aspects of Australian sandstone landscapes*. Australian and New Zealand Geomorphology Group Special Publication No 1. 11-20

Branagan D.F. and Cairns H.C., 1993. Tessellated pavements in the Sydney Region. *Journal and Proceedings of the Royal Society of New South Wales*. 126(1/2): 63-72

Branagan D. F., and Packham G. H. 2000. *Field Geology of New South Wales*. Department of Mineral Resources New South Wales, Sydney, Australia. 418p

Branagan D., Herbert C. and Langford-Smith T. 1976. *An outline of the Geology and geomorphology of the Sydney Basin*. Science Press. University of Sydney. 60p

Buchanan R.A. 1980. The Lambert Peninsula, Ku-ring-gai Chase National Park. Physiography and the distribution of podzols, shrublands and swamps, with details of the swamp vegetation and sediments. *Proceedings of the Linnean Society of New South Wales* 104: 73-94.

Buchanan R.A. and Humphreys G.S. 1980. The vegetation on two podzols on the Hornsby Plateau, Sydney. *Proceedings of the Linnean Society of New South Wales* 104: 49-71.

Burges A. and Beadle N.C.W. 1952. The laterites of the Sydney District. *Australian Journal of Science* 14(5): 161-162

Burrows P.A., Brown L. and Morris E.C. 1977. Variations in vegetation and soil patterns across the Hawkesbury Sandstone from Barren Grounds to Fitzroy Falls, N.S.W. *Australian Journal of Ecology*. 2: 137-159

Campbell W.D. 1899. Aboriginal carvings of Port Jackson and Broken Bay. *Memoirs of the Geological Survey of New South Wales*. Ethnological Series No 1.

Chapman G.A., Murphy C.L., Tille P.J., Atkinson G. and Morse R.J. 2009. *Soil landscapes of the Sydney 1:100,000 Sheet*. 4th Edition. New South Wales Department of Environment, Climate Change and Water, Sydney.

Clarke W.B. 1878. *Remarks on the sedimentary formations of New South Wales*. Sydney Govt Printer. (4th Ed.).

Clark S.S. 1988. Effects of hazard-reduction burning on populations of understorey plant species on Hawkesbury sandstone. *Australian Journal of Ecology* 13: 473–484.

Clark S.S. and McLoughlin L.C. 1986. Historical and biological evidence for fire regimes in the Sydney region prior to the arrival of Europeans: implications for future bushland management. *Australian Geographer* 17: 101–112.

Clegg J. 2002. Recent Research at Elvina Track Rock Platforms. *Australian Association of Consulting Archaeologists Inc. Newsletter* 90: 17-19.

Conaghan, P.J. 1980. The Hawkesbury Sandstone: gross characteristics and depositional environment. A guide to the Sydney Basin. Eds. C. Herbert and R. Helby. *Geological Survey of New South Wales Bulletin* 26: 188-253

Conaghan P.J. and Jones J.G. 1975. The Hawkesbury Sandstone and the Brahmaputra: a depositional model for continental sheet sandstone. *Journal of the Geological Society of Australia* 22: 275-283.

Conaghan P.J., Jones J.G., McDonnell K.L. and Royce K., 1982. A dynamic fluvial model for the Sydney Basin. *Geological Society of Australia Journal*, 29(1): 55-70

Conroy R.J. 1996. To burn or not to burn? A description of the history nature and management of bushfires within Ku-ring-gai Chase National Park. *Proceedings of the Linnean Society of New South Wales* 116: 79–95.

Conroy R.J. Bonzol U.A., Illingsworth J.J., Martyn J.E., Mitchell P.B., Percival I.G., Robinson A.M., Robson D.F., and Walsh J.B. 2023. The Natural and Cultural History of the Ku-ring-gai GeoRegion, New South Wales. *Proceedings of the Linnean Society of New South Wales* 144: 129-226.

Corkery R.W. 1980. Weathering of Hawkesbury Sandstone shale lenses – implications for ceramic evaluation. *Quarterly Notes Geological Survey of New South Wales* 41: 1-9.

Cowan J.A., Humphreys G.S., Mitchell P.B. and Murphy C.L. 1985. An assessment of pedoturbation by two species of mound building ants, (*Camponotus intrepidus*) (Kirkby) and (*Iridomyrmex purpureus*) (F.Smith). *Australian Journal of Soil Research* 22: 98-108.

De Deckker P., Moros M., Perne, K., Blanz T., Wacker L., Schneider R., Barrows T.T., O’Loingsigh T. and Jansen E. 2020. Climatic evolution in the Australian region over the last 94 cal ka BP - spanning human occupancy - and unveiling the Last Glacial Maximum. *Quaternary Science Reviews* 249: 106593.

Dury G.H. 1971. Relict deep weathering and duricrusting in relation to the palaeoenvironments of middle latitudes. *The Geographical Journal* 137: 511-522.

Eggleton R.A. and Taylor G. 1999. Some selected thoughts on laterite. New approaches to an old continent. In: G. Taylor and C.F. Pain (Eds), *Proceedings of the Third National Regolith Conference*. 209-226.

Faniran A. 1971. The parent materials of Sydney laterites. *Journal of the Ecological Society of Australia* 18: 159-164.

Fairley A. and Moore P. 2010. *Native Plants of the Sydney Region. From Newcastle to Nowra and west to the Dividing Range*. Allen and Unwin. 624p

Field R.J. and Humphreys G.S. 2002. The development of a podzol using stratigraphic – age relationships and a mass-balance approach. In: Roach I.C. (Ed). *Regolith and Landscapes in Eastern Australia*. p 28-32. CRC LEME.

Foley D. 2001. Repossession of our Spirit. Traditional owners of northern Sydney. *Aboriginal History Monograph* 7. Aboriginal History Inc. Canberra.

Gale S. J. 2023. The age and origin of Sydney Harbour and the Parramatta River: the Cenozoic history of the coastal rivers of central New South Wales. *Australian Journal of Earth Sciences*. 70(1): 1-17

Gibbons R., 2016. History as Landscape: Hawkesbury Sandstone and the Aboriginal Dreamtime.

[https://www.academia.edu/22709271/History\\_as\\_Landscape\\_Hawkesbury\\_Sandstone\\_and\\_the\\_Aboriginal\\_Dreamtime](https://www.academia.edu/22709271/History_as_Landscape_Hawkesbury_Sandstone_and_the_Aboriginal_Dreamtime)

Gill A.M. 1981. Adaptive responses of Australian vascular plant species to fires. In: A.M. Gill, R.H. Groves and I.R. Noble (Eds.) *Fire and the Australian Biota*. Australian Academy of Science: Canberra, p 243-271.

Gould S.F. 1998a. Proteoid root mats bind surface materials in Hawkesbury Sandstone biomantles. *Australian Journal of Soil Research* 36: 1,019-1,032.

Gould S.F. 1998b. Proteoid root mats stabilise Hawkesbury Sandstone biomantles following fire. *Australian Journal of Soil Research* 36: 1,033-1,043.

Hallsworth E.G. and Costin A.B. 1953. Studies in pedogenesis in New South Wales; IV, The ironstone soils. *Journal of Soil Science* 4: 24-46.

Hallsworth E.G., Costin A.B. and Gibbons F.R. 1953. Studies in pedogenesis in New South Wales. VI. On the classification of soils showing features of podzol morphology. *Journal of Soil Science* 4: 241-56.

Hart D.M. 1990. Occurrence of the 'Cyperaceae-type' phytolith in dicotyledons. *Australian Systematic Botany* 3(4): 745 – 750

Hart D.M. 1988. The Plant Opal Content in the Vegetation and Sediment of a Swamp at Oxford Falls, New South Wales, Australia. *Australian Journal of Botany* 36(2): 159-170

Herbert C. (Ed.) 1983. *Geology of the Sydney 1:100,000 sheet 9130*. Geological Survey of New South Wales. 225p

Herbert C. 1997. Sequence stratigraphic analysis of Early and Middle Triassic alluvial and estuarine facies in the Sydney Basin, Australia. *Australian Journal of Earth Sciences*. 44(1): 125-143

Herbert C. and Helby R. (Eds) 1980. A guide to the Sydney Basin. *Geological Survey of New South Wales Bulletin*. 26. 603p

Howell J., Humphreys G.S. and Mitchell P.B. 2006. Changes in soil water repellence and its distribution in relation to surface microtopographic units after a low severity fire in eucalypt woodland, Sydney. *Australian Journal of Soil Research* 44: 205-217.

Humphreys G.S. 1981. The rate of ant mounding and earthworm casting near Sydney, New South Wales. *Search* 12: 129-131.

Humphreys G.S. 1994. Bioturbation, biofabrics, and the biomantle an example from the Sydney Basin. In: A.J. Ringrose-Voase and G.S. Humphreys (Eds.) *Soil micromorphology: studies in management and genesis*. Elsevier, Amsterdam 421-436.

Humphreys G.S. and Mitchell P.B. 1983. A preliminary assessment of the role of bioturbation and rainwash on sandstone hillslopes in the Sydney Basin. In: R.W. Young and G.C. Nanson (Eds). *Aspects of Australian Sandstone Landscapes*. Australian and New Zealand Geomorphology Group Special Publication. 66-80.

Humphreys G.S., Raven M.D. and Field R.J. 2004. Wood-ash stone in *Angophora costata* (Gaertn.) J. Britt. following Sydney bushfires. *Australian Forestry* 67: 39-43.

Hunt P.A., Mitchell P.B. and Paton T.R. 1977. 'Laterite profiles' and 'lateritic ironstones' on the Hawkesbury Sandstone. Australia. *Geoderma* 19: 105-121.

Jones B.G. and Rust B.R., 1983. Massive sandstone facies in the Hawkesbury Sandstone, a Triassic fluvial deposit near Sydney, Australia. *Journal of Sedimentary Petrology*. 53(4): 1249-1259

Jurskis V. and Underwood R. 2013. Human fires and wildfires on Sydney sandstones: history informs management. *Fire Ecology* 9(3): 8-24

Kodala P.G. and Dodson J.R. 1989. A late-Holocene vegetation and fire record from Ku-ring-gai Chase National Park. *Proceedings of the Linnean Society of New South Wales* 110 (4): 317-326

Kohen J. and Lampert R. 1987. Hunters and fishers in the Sydney region. In: D.J. Mulvaney and P.J. White (Eds). *Australians to 1788*. Fairfax, Syme and Weldon Associates.

Kubiak P.J. 2009. Fire responses of bushland plants after the January 1994 wildfires in northern Sydney. *Cunninghamia* 11(1): 131-165

Lamy D.L. and Junor R.S. 1965a. An Erosion Survey in the Ku-ring-gai Chase and adjoining catchments I. *Journal of the Soil Conservation Service of NSW*. 21(3): 94-110.

Lamy D.L. and Junor R.S. 1965b. An Erosion Survey in the Ku-ring-gai Chase and adjoining catchments II. *Journal of the Soil Conservation Service of NSW*. 21(4): 159-174.

Lewis S.E., Sloss C.R., Murray-Wallace C.V., Woodroffe C.D. and Smithers S.G. 2013. Postglacial sea-level changes around the Australian margin: a review. *Quaternary Science Reviews* 74: 115-138.

Loughnan F.C. and Golding H.G. 1957. Clay minerals in some Hawkesbury sandstones. *Journal and Proceedings of the Royal Society of New South Wales* 90(4): 147-150

Lovering J.F., McElroy C.T., Standard J.C. 1969. History of sedimentation in the Sydney Basin - Hawkesbury-Wianamatta Group sedimentation. In: G.H. Packham (Ed) *The geology of New South Wales. Geological Society of Australia Journal*. 16(1): 443-444

Marytn J. 2018. *Rocks and trees: A photographic journey through the rich and varied geology, scenery, and flora of the Sydney Region*. Step Inc. 312p

Mayne S.J., Nicholas E., Bigg-Wither A.L., Rasidi J.S. and Raine M.J. 1974. Geology of the Sydney Basin: a review. *Bureau of Mineral Resources Bulletin*. 149. 229p

McDonald J.J. 2008. Dreamtime superhighway: an analysis of Sydney Basin rock art and prehistoric information exchange. *Terra Australis* 27. ANU E Press.

McDonnell K.L. 1974. Depositional environment of the Triassic Gosford Formation, Sydney Basin. *Journal of the Geological Society of Australia* 21: 107-132

McDonnell, K.L., 1989. Father Julian Tenison Woods and the Hawkesbury Sandstone. *Journal and Proceedings of the Royal Society of New South Wales*. 122(3/4): 123-126

McNally, G.H. and Franklin, B.J. (Eds.) 2000. *Sandstone City: Sydney's dimension stone and other sandstone geomaterials*. Monograph No 5, Environmental, Engineering and Hydrogeology Specialist Group, Geological Society of Australia.

Miall A.D., and Jones B.G. 2003. Fluvial architecture of the Hawkesbury Sandstone (Triassic), near Sydney, Australia. *Journal of Sedimentary Research* 73(4): 531-545

Mitchell P.B. 1988. The influence of vegetation, animals, and micro-organisms on soil processes. In: H.A. Viles (Ed.) *Biogeomorphology*. Blackwell. 43-82.

Mitchell P.B. and Humphreys G.S. 1987. Litter dams and microterraces formed on hillslopes subject to rain wash in the Sydney Basin, Australia. *Geoderma* 39: 331-357

Morcombe M. 2003. *Field guide to Australian birds*. Steve Parish Publishing, 448p

Morrison M. 1904. Notes on some of the dykes and volcanic necks of the Sydney district, with observations on the columnar sandstone. *Records of the Geological Survey of New South Wales* 7: 241-281

NSW National Parks and Wildlife Service. 2024. *Ku-ring-gai Chase National Park and Lion Island, Long Island and Spectacle Island nature reserves. Plan of management*. 39p  
<https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Parks-reserves-and-protected-areas/Parks-plans-of-management/ku-ring-gai-chase-national-park-draft-plan-of-management-220452.pdf>

Offler R., Zwingham H., Foden J., Sutherland F.L. and Graham I.T. 2019. Age and composition of dykes emplaced before and during the opening of the Tasman Sea – source implications. *Australian Journal of Earth Sciences* 66(8): 1129-1144

Outhred R; R. Lainson R. Lamb and Outhred D. 1985. A floristic survey of Ku-ring-gai Chase National Park. *Cunninghamia* 1(3): 313-338.

Pate J.S., Verboom W.H. and Galloway P.D. 2001. Co-occurrence of Proteaceae, laterite and related oligotrophic soils: coincidental associations or causative inter-relationships? *Australian Journal of Botany* 49: 529–560.

Paton T.R., Humphreys G.S. and Mitchell P.B. 1995. *Soils. A new global view*. Yale University Press. 212p

Paton T.R. and Williams M.A.J. 1972. The concept of Laterite. *Annals of the Association of American Geographers*. 62: 42-56

Pidgeon I. 1938. The ecology of the Central Coast Area of New South Wales. II Plant succession on the Hawkesbury Sandstone. *Proceedings of the Linnean Society of New South Wales* 1938 63: 1-26

Rust B.R. and Jones, B.G. 1987. *The Hawkesbury Sandstone south of Sydney, Australia; Triassic analogue for the deposit of a large, braided river*. *Journal of Sedimentary Research*. 57(2): 222–233.

Sawkins D., Verboom W.H. and Pate J.S. (2011). Native vegetation in Western Australia is actively involved with soil formation. *Department of Primary Industries and Regional Development, Western Australia, Digital Bulletin* 4823.

Selkirk P.M. and Adamson D. 1981. Fire and breakdown of sandstone in the landscape of the Sydney Basin. In: P. Stanbury (Ed.) *Bushfires, their effect on Australian life and landscape*. The Macleay Museum Ch. 3.

Short A.D. and Woodroffe C.D. 2009. *The coast of Australia*. Cambridge University Press, 304p

Stanbury P., Clegg J. and Campbell D. 1996. *A Field Guide to Aboriginal Rock Engravings: with Special Reference to Those Around Sydney*. Oxford University Press. 176p

Ward C.R., 1972. Ripple-drift cross-lamination in the Hawkesbury Sandstone, New South Wales. *Journal and Proceedings of the Royal Society of New South Wales*. 105: 27-29

White M.E. 1986. *The Greening of Gondwana*. Reed Books P/L 256p

Whitehouse J. 2016. Beacon Hill shale quarry, Sydney, New South Wales, Australia: Geologic insights into its strikingly preserved Triassic fossil assemblage. [https://www.academia.edu/24223101/Beacon\\_Hill\\_shale\\_quarry\\_Sydney\\_New\\_South\\_Wales\\_Australia\\_Geologic\\_insights\\_into\\_its\\_strikingly\\_preserved\\_Triassic\\_fossil\\_assemblage](https://www.academia.edu/24223101/Beacon_Hill_shale_quarry_Sydney_New_South_Wales_Australia_Geologic_insights_into_its_strikingly_preserved_Triassic_fossil_assemblage)

Young R.W. 1978. The study of landform evolution in the Sydney Region: A review. *Australian Geographer*. 14: 71-93

## Web Resources

Pittwater Pathways videos:

A history of Pittwater: Part 4: West Head fortress. 51 min.

<https://www.youtube.com/watch?v=NEQt3obPUMg>

Drawing on the land. 52 min.

<https://www.youtube.com/watch?v=g0OxjOSJ8FI>

Ku-ring-gai GeoRegion: a new concept in landscape conservation. 7.5 min.

<https://www.youtube.com/watch?v=iOzka7xbrLQ>