

# Curriculum Vitae

Nigel I. J. Tucker

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Education: Associate Diploma of Applied Science  
Master of Science



## Environmental Management Skills and Experience

- 28 years experience in identifying flora and fauna species of subtropical and tropical Australian, Melanesian and Pacific Islands ecosystems from closed forests to savanna grasslands and semi-arid mulga lands.
- Environmental management and restoration planning for a range of government, non-government, private companies and individuals.

## Education and Employment

### Education

- **Associate Diploma of Applied Science** 1990-1996  
- University of Queensland, Gatton
- **Master of Science (Tropical Biology)** 1999-2000  
- James Cook University, Cairns

### Employment

- **Director/Senior Environmental Scientist** 01/2003 - current  
Biotropica Australia Pty Ltd  
Tarzali, Atherton Tablelands, Queensland
- **Director** 11/1984 – 01/2003  
Queensland Parks and Wildlife Services Centre for Tropical Restoration  
Lake Eacham, Atherton Tablelands, Queensland



- **Field Assistant**

04/1984 – 12/1984

Assistant to Rainforest Ecologist J.G. Tracey

CSIRO, Tropical Forest Research Centre

Atherton, Queensland

## Additional Competencies

- Queensland Drivers Licence Class A & C
- Senior First Aid Certificate
- 30215 QLD General Safety Induction (Construction Industry)
- EECL Generic Contractor Induction (Ergon)
- Electrical Awareness for Safe Working Near Exposed Parts Training (Ergon)
- Cultural Heritage Management Training (Ergon)

## Professional Memberships and Affiliations

- Executive Board Member – Journal of Ecological Management and Restoration (Ecological Society of Australia & Blackwell Science Asia)
- Board Member – Society for Ecological Restoration International (Australian chapter)
- Scientific Advisory Panel – Natural Resource Management Plan for the Wet Tropics Bioregion (Natural Resources Management Board of North Qld)
- Adjunct Lecturer – School of Marine and Tropical Biology. James Cook University
- Life Member – TREAT (Trees for the Evelyn and Atherton Tablelands Inc)

## Recent Projects

- **Client:** Exxon Mobil Corp (2009-2011)  
**Project:** Survey and strategic environmental advice: PNG LNG Project, Papua New Guinea
- **Client:** Qld Dept of Main Roads (2007-2009)



**Project:** Preliminary Environmental Design – Proposed Cardwell Range Road Upgrade

- **Client:** Ok Tedi Mining Ltd (2008-2011)  
**Project:** The design and implementation of a rehabilitation strategy for remediation of mine waste at Bige, Western Province, Papua New Guinea
- **Client:** Powerlink Qld (2007-2010)  
**Project:** Environmental Management Plans for electricity assets within National Parks and State Forests – Wet Tropics, Central and South-west Qld
- **Client:** Ergon Energy Corp (2006-2011)  
**Project:** EMP's for electricity assets within National Parks and State Forests – Wet Tropics, Central and South-west Qld
- **Client:** Powerlink Queensland / Downer EDI (2006-2008)  
**Project:** Ecological survey (EIS) and Environmental Management – Tully Innisfail 275kV line Construction
- **Client:** Qld Electricity Supply Industry (2005-2009)  
**Project:** Develop and refine a State-wide Code of Practice for the Maintenance of Electricity Assets in the Queensland National Park Estate
- **Client(s):** Stanwell Corp (2006-2011)  
**Project:** Environmental advice and Land Management Plans for electricity generation and distribution assets in the Wet Tropics region
- **Client:** Qld Dept of Main Roads (2005-2006)  
**Project:** The development of alternative rehabilitation approaches on roadsides in the Wet Tropics World Heritage Area

## Publications

- Tucker, N.I.J 1996. Foster Ecosystems: early observations on the ability of a pioneer monoculture to accelerate succession on degraded tropical lands. Paper presented at the 'Conference on World Heritage Tropical Forest Management.' Wet Tropics Management Authority, Cairns.
- Tucker, N.I.J and Murphy, T.M. 1997. The effects of ecological rehabilitation on biodiversity recruitment: some observations from the Wet Tropics of North Queensland. *Forest Ecology and Management* 99 1/2. pp.133–152
- Tucker, N.I.J. 1999. Wildlife Corridors: Three restoration case studies from the Wet Tropics of north Queensland. In: *Tropical Restoration for the New*



Millenium Handbook of the Annual Meeting of the International Society for Ecological Restoration. Puerto Rico, U.S.A. p119.

- Tucker, N.I.J. 2000. Linkage Restoration: Interpreting fragmentation theory for the design of a restored habitat linkage in tropical north-eastern Queensland. *Ecological Management and Restoration* 1:1 pp. 35-42.
- Tucker, N.I.J. 2000. Monitoring and evaluation at Donaghy's wildlife corridor: Measures used and questions asked. *Ecological Management and Restoration* 1:1 pp. 61-62.
- Tucker, N.I.J. 2000. Vanishing Vegetation of Far North Queensland – Mabi Forest (Type 5b). Hedges and Simpson Printery. Atherton, Qld. 20pp.
- Tucker, N.I.J. 2001. Wildlife colonization on restored tropical lands: What can it do, how can we hasten it and what can we expect? In: *Forest Restoration for Wildlife Conservation* (Eds S. Elliott, J. Kerby, D. Blakesley, K. Hardwicke, K. Woods and V. Anusarnsunthorn) pp. 279-295. International Tropical Timber Organisation and the Forest Restoration Research Unit. Chiang Mai University, Thailand.
- Tucker, N.I.J. 2002. Vegetation recruitment in a restored habitat linkage in the Wet Tropics of north-eastern Qld. MSc Thesis. James Cook University, Cairns.
- Tucker, N.I.J. Wardell-Johnson, G.W., Catterall, C.P., and Kanowski, J. 2004. Agroforestry and Biodiversity: Improving Conservation Outcomes in Tropical Northeastern Australia. In: *Tropical biodiversity and the role of agroforestry*. (eds G. Scroth, C. Gascon, I.M.N Izac, and C. Harvey) Island Press. Washington, D.C
- Tucker, N.I.J. and Simmons, T.S. 2004. Animal-plant interactions in tropical restoration: observations and questions from north Queensland. In: *Animal-Plant Interactions in Conservation and Restoration* (Eds. J. Kanowski, C.P. Catterall, A.J Dennis and D.A. Westcott). Cooperative Research Centre for Tropical Rainforest Ecology and Management, Cairns, Qld.
- Tucker, N.I.J. 2005. Healing Country and healing relationships. *Ecological Management and Restoration* 6:2. pp83-84.
- Tucker, N. I. J. 2008. Restoration in North Queensland: Recent Advances in the Science and Practice of Tropical Rainforest Restoration In: Stork, N. E & Turton, S. *Living in a dynamic tropical forest landscape*, Blackwell Publishing, UK, pp 485-493



- Tucker, N.I.J and Simmons, T.M. 2009. Restoring a rain forest habitat linkage in north Queensland: Donaghy's Corridor. *Ecological Management and Restoration* 10:2, 98-112
- Tucker, N.I.J (2010) Some non-timber values from rainforest species *Australian Forest Grower* **33:3**, 37-38
- Goosem, S.P and Tucker, N.I.J., 1995. Repairing the Rainforest. Theory and Practice of Rainforest Re-establishment in North Queensland's Wet Tropics. Wet Tropics Management Authority. Cairns. 80pp
- Lamb, D., Parrotta, J.A., Keenan, R and Tucker, N.I.J. 1997. Rejoining habitat remnants: restoring degraded tropical lands. In: *Tropical forest remnants: ecology, management and conservation of fragmented communities*. (Eds.) R. Bierregaard and W.F Laurance. University of Chicago Press, Chicago pp. 366-385.
- Goosem, S.P and Tucker, N.I.J., 1998. Current concerns and management issues of *Phytophthora cinnamomi* in the rainforests of the Wet Tropics. pp 9-16 In: *Patch deaths in Tropical Queensland Rainforests: association and impact of Phytophthora cinnamomi and other soil borne organisms*. (Ed) P.A Gadek. CRC for Tropical Rainforest Ecology and Management, Technical Report. Cairns.
- Murphy, T.M and Tucker, N.I.J. 2000. Restoration in north Queensland – A local perspective. *Ecological Management and Restoration* 1:2 pp. 140-142.
- Grove, S.J and Tucker, N.I.J. 2000. The role of dead wood in forest restoration and management: What can insects tell us? *Ecological Management and Restoration* 1:1 pp. 63-65.
- Vasquez-Dominguez, E., Paetkau, D., Tucker, N.I.J., Hinten, G., and Moritz, C. 2001. Resolution of natural groups using iterative assignment tests: an example from two species of Australian native rats (*Rattus*). *Molecular Ecology* 10:98: 2069-2075.
- Wardell-Johnson, G., Tucker, N.I.J., Kooyman, R., Catterall, C.P and Kanowski, J. 2001. Rainforest restoration and recovery: exploration of plant assemblages. Paper presented at the 2001 Annual Conference of the Rainforest CRC. Cairns, Australia.
- Kanowski, J., and Tucker, N.I.J. 2002. Trial of shelter poles to aid the dispersal of tree kangaroos on the Atherton Tablelands, north Queensland. *Ecological Management and Restoration* 2:3 pp137-138.
- Simmons, T. M. and Tucker, N. I. J. 2002. The rat's tale – use of small mammals as bioindicators in a restored forest linkage in far north



Queensland. In: Ecology 2002: Handbook of the 2nd Joint Meeting of the Ecological Society of Australia Inc., and the New Zealand Ecological Society Inc. Landsberg, J. (ed). p. 141. Cairns, Australia.

- Kanowski, J., Winter, J.W., Simmons, T.M., and Tucker, N.I.J. 2003. Conservation strategy for Lumholtz's tree-kangaroo on the Atherton Tablelands. *Ecological Management and Restoration* 4:3 pp220-221.
- Ward, D., Tucker, N.I.J., and Wilson, J. (2003) Cost effectiveness of revegetating degraded riparian habitats adjacent to macadamia orchards in reducing crop damage. *Crop Protection* 22: 935-940
- Harvey, C.E., Tucker, N.I.J and Estrada, A. 2004. The role of isolated trees, live fences and windbreaks in the conservation of tropical biodiversity. In: *Tropical biodiversity and the role of agroforestry*. (eds G. Scroth, C. Gascon, I.M.N Izac, and C. Harvey) Island Press. Washington, D.C
- Catterall, C.P., Kanowski, J., Wardell-Johnson, G.W., Proctor, H., Reis, T., Harrison, D., and Tucker, N.I.J. 2004. Quantifying the biodiversity values of reforestation: perspectives, design issues and outcomes in Australian rainforest landscapes. In: *Conservation of Australia's Forest Fauna* (2nd edition) Lunney, D. (Ed) Royal Zoological Society of New South Wales, Mosman, NSW.
- White, E., Tucker, N.I.J., Wilson, J and Meyers, N. 2004. Seedling recruitment in ten year old restoration plantings in far north Queensland. *Forest Ecology and Management* 192:409-426.
- Kanowski, J., Catterall, C.P., Proctor, H., Reis, T., Tucker, N.I.J., and Wardell-Johnson, G.W. 2005. Biodiversity values of timber plantations and restoration plantings for rainforest fauna in tropical and subtropical Australia. In: *Reforestation in the Tropics and Subtropics of Australia Using Rainforest Tree Species* (Eds: P.D Erskine, D. Lamb and M. Bristow) pp183-205 RIRDC Publication No 05/087, Rural Industries Research and Development Corporation, Canberra
- Paetkau, D., Vasquez, E, Tucker, N.I.J., and Moritz, C. 2009. Monitoring movement into and through a newly planted rainforest corridor using genetic analysis of natal origin. *Ecological Management and Restoration* **10:3** 210-216



