

CURRICULUM VITAE

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December 2005

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EDUCATIONAL HISTORY

- (1) Primary and secondary school in Queensland, Australia
- (3) QDA (Queensland Dipl. Agriculture) at Qld Agricultural College, Lawes (Gatton) 1956.
- (4) B.Agr.Sc. Queensland University, 1963, with major in plant breeding and genetics.
- (5) M.Sc. Forestry Department, Australian National University, Canberra 1971.
- (6) Ph.D. Forest science. Forestry Department, Australian National University 1976

HONORARY ACADEMIC APPOINTMENTS

- (1) Adjunct Associate Professor, School of Tropical Biology, James Cook University, Queensland (1999-2005 ongoing)
- (2) Adjunct Associate Professor (1994-99) Adelaide University, Botany Department.
- (3) Honorary Research Fellow, CSIRO Division of Wildlife and Ecology (1994-99).
- (4) Research Fellow, Conservation International. (1999 to 2000).
- (5) Senior Associate Scientist, Center for International Forestry Research (CIFOR) (1998 to 2002)

EMPLOYMENT HISTORY

- (1) 25.08.57. Assistant Agricultural Officer, Extension. Department of Agriculture, Stock and Fisheries, Papua New Guinea Public Service.
- (2) 14.02.61. Agricultural Officer PNG
- (3) 30.11.64. Botanist PNG Dept of Forests
- (4) 18.05.66. Ecologist PNG Dept of Forests
- (5) 01.02.67. Forest Officer PNG Dept of Forests.
- (6) 28.12.72. Experimental Officer, Woodland Ecology Unit, Commonwealth Scientific and Industrial research organization (CSIRO) Division of Land Use Research, Canberra. Australia.
- (7) 1977. Senior Research Scientist CSIRO, LUR
- (8) 1981 – 1986 Principal Research Scientist CSIRO, LUR
- (9) 1986 - 1994. Principal Research Scientist, CSIRO Division of Forest Research and then at the Tropical Forest Research Centre, Atherton (CSIRO Division of Wildlife and Ecology).
- (10) 1994-01/04/98 Principal Research Scientist at CIFOR (Center for International Forestry Research, Bogor, Indonesia). Project leader, Forest Ecosystem Management.
- (11) 05/1998 to 06/2002: Senior Associate Scientist (consultant) for CIFOR.
- (12) CEO, Center for Biodiversity Management, (Australia) (September 1999 ongoing)

LEARNED SOCIETIES

Member, and past President, Ecological Society of Australia (1974-93)

Fellow: Explorer's Club of New York (1981)

Member: (Chairman, Canberra), Australian Systematic Botany Society (1980-93)

Member: Australian Society of Authors (1989-ongoing)

Member: American Institute of Biological Sciences (2000-ongoing)

Member: American Association for the Advancement of Science (2000-ongoing)

RESEARCH FOCUS

Sustainable land management requires an understanding of the nexus between primary ecosystem drivers and economic tradeoffs with respect to agricultural productivity. Because the acquisition of baseline information is essential to this process, I have focused on developing generic, cost-efficient methods of rapid resource appraisal including biodiversity. Basic research has gone hand-in-hand with technology transfer in the form of user-friendly software to assist data collection, storage and analysis and potential mapping of plant and animal distribution. In the past decade I have established a network of global, ecoregional study sites in several key agroecological zones including the Eastern and Western Amazon Basin, Indomalesia and Humid Tropical West Africa. These became multi-disciplinary *foci* for comparative studies on the impact of land use on biodiversity and productivity, resulting in significant improvements in biodiversity survey methods and generic, training modules in rapid resource assessment. In addition to tropical sites, the Center for Biodiversity Management now has access to uniformly collected, primary resource data from more than 1600 sites worldwide that will form the basis for modelling vegetation response to environmental change in 2005. The gradient-based, rapid survey technology, now implemented by many agencies (WCMC, US-NPS, UNEP-CBD, FAO) has enabled the identification of actual and potential linkages between biodiversity, above-ground carbon and key soil physico-chemical properties. Ongoing research aims at replicating sites in poorly studied regions to assist in understanding the dynamic linkages between biodiversity and profitability.

PAPERS PRESENTED AT WORKSHOPS, SYMPOSIA AND OVERSEAS INSTITUTIONS

More than 100 papers and keynote addresses presented at overseas symposia and institutional meetings including numerous papers, mostly on biodiversity and forest ecosystem management and mainly in Europe and USA (IGBP, BAHC, EU, MEA, Cornell Univ., World Bank, UNDP, USAID, ESA, Smithsonian Institution); UK (Oxford Univ., Natural History Museum, Institute of Terrestrial Ecology; Millennium Ecosystem Assessment). In addition I have delivered many presentations at research and training institutions in South-East Asia (Indonesia, Thailand, Vietnam, Philippines) and more recently, India.

INTERNATIONAL COMMITTEES (1998 TO PRESENT)

Member, Global Steering Group, ICRAF, global ecoregional project on Alternatives to Slash and Burn.; CBM representative as ASB consortium member 2000 ongoing; Member, Coordinating Committee, Global Monitoring Network for Biodiversity, Conservation International 1999-2001.

PUBLICATION LIST

Pre-1990

- Gillison, A.N. (1969). Plant succession in an irregularly fired grassland - Doma Peaks Region, Papua. *J. Ecol.* 57, 415-28.
- Gillison, A.N. (1970). Structure and floristics of a montane grassland forest transition, Doma Peaks Region, Papua. *Blumea* 18, 72-86.
- Gillison, A.N. (1970). Dynamics of biotically induced grassland/ forest transitions in Papua New Guinea. Unpubl. M.Sc. Thesis, Dept Forestry, Australian National University, Canberra.
- Gillison, A.N. (1972). The tractable grasslands of Papua New Guinea. In: M. Ward (ed.) '*Change and Development in Rural Melanesia*'. Proceedings of the Fifth Waigani Seminar, pp. 161-72. University of Papua New Guinea and the Australian National University, Port Moresby.
- Gillison, A.N. (1975). Phytogeographical relationships of the northern islands of the New Hebrides. *Phil. Trans. R. Soc. Lond. B.* 272, 385-90.
- Gillison, A.N. (1976). Taxonomy and autecology of the grey box *Eucalyptus moluccana* Roxb. (s. lat.), Myrtaceae. Ph.D. Thesis, Forestry Dept, Australian National University, Canberra.
- Gillison, A.N. (1976). Report on the conservation of vegetation on Christmas Island, Indian Ocean. In '*Christmas Island Environment and Conservation*', 25pp. Report from the Environment Reconnaissance team, (Department of Administration Services, Canberra.)
- Gillison A.N. (1976). A review of problems and techniques in restoring the tropical forest ecosystem once it has been altered. Australian UNESCO committee for Man and the Biosphere. Publ. No. 3, pp. 51-71. (Aust. Govt Publ. Service, Canberra)
- Gillison, A.N. (1978). Minimum spanning ordination - a graphic-analytical technique for three-dimensional ordination display. *Australian Journal of Ecology* 3: 233-8.
- Gillison, A. N. 1980. The management of mangrove forest systems in Micronesia. Preliminary report for CSIRO Division of Land Use Research. Institute of Earth Resources, Canberra, Australia.
- Gillison, A.N. (1981). Towards a functional vegetation classification. In: A.N. Gillison and D.J.Anderson (eds.) '*Vegetation Classification in Australia*', pp. 30-41. CSIRO and Aust. Natl University Press, Canberra.
- Gillison, A.N. (1983). Resource inventory and conservation aspects in tropical vegetation. In: Ooi Jin Bee (ed.) '*Natural Resources in Tropical Countries*'. pp. 371-401. (Singapore University Press , Singapore).
- Gillison. A.N. (1983). Tropical savannas of Australia and the South-west Pacific. In: F. Bourlière (ed.) '*Tropical Savannas*', In: D.W. Goodall (ed.-in-chief) '*Ecosystems of the World*' 13, 183-243. (Elsevier, Amsterdam).
- Gillison, A.N. (1984). The 'dry' rainforests of Terra Australis. In: G.L. Werren and A.P. Kershaw (eds.) '*Australian National Rainforest Study Report to the World Wildlife Fund (Australia)*' Vol. 1. pp. 213-30. Proc. workshop on the past, present and future of Australian rainforests, Griffith University, December 1983, Geography Department, Monash University, for the Australian Conservation Foundation.
- Gillison, A.N. (1984). Gradient oriented sampling for resource surveys - the gradsect method. In: K.R. Myers, C.R. Margules and I. Musto (eds.) '*Survey Methods for Nature Conservation*' pp. 349-74. Proc. Workshop held at Adelaide Univ. 31 Aug. to 31 Sept. 1983. (CSIRO (Aust.) Division of Water and Land Resources, Canberra).
- Gillison, A.N. (1985). The dry rainforests of Australia. P. Figgis (ed.) Chapter 7 in '*Australian Rainforests*'. Wattle Books, Sydney.
- Gillison, A.N. (1985). Rainforests: Definition and Ecological Context. Australian National University, Centre For Resource and Environmental Studies, Working Paper 1985/2 pp.1-5.
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- on 'The Role of Science and Technology in the Year 2000: Strategies for Development'. pp. 78-95. Publ. The Science Society of Thailand under the auspices of Chulalongkorn University and UNESCO.
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- Gillison, A. N. and P. E. Neil. (1987). *A Feasibility Study for a Proposed Kauri Reserve on Erromango Island, Republic of Vanuatu*. Canberra, Australia: CSIRO, Institute of Biological Resources, Division of Water and Land Resources, Bot SD667 .V2 G54 1987.
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- Gillison, A.N. and Anderson, D.J. (Eds.) (1981). 'Vegetation Classification in Australia'. CSIRO and Aust. Natl Univ. Press, Canberra. 229 p.
- Gillison, A.N. and Brewer, K.R.W. (1985). The use of gradient-directed transects or gradsects in natural resource survey. *Journal of Environmental Management* 20, 103-127.
- Gillison, A.N. and Walker, J. (1981). Woodlands of Australia. In: R.H. Groves (ed.) 'Australian Vegetation' pp. 177-97. Cambridge Univ. Press, Hong Kong.
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- Nix, H.A. and Gillison, A.N. (1985). Towards an operational framework for wildlife and habitat management. In: J. Kikkawa, (ed.) 'Wildlife management in the forests and forestry-controlled lands in the tropics and the southern hemisphere'. Proceedings of a workshop held at Univ. Queensl. Australia 16-18 July 1984. IUFRO S1.08 Wildlife and its Habitats. Published by IUFRO and MAB.
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1990-2000

- Gillison, A.N. (1990). *Comments on the utility of a dirigible-supported raft for rainforest studies. Biologie d'une canopee de foret equatoriale*. Rapport de mission, radeau des cimes Octobre-Novembre 1989. Petit-Saut Guyanane-Francaise. Dept Industrie de Xylochimie. p. 27.
- Gillison, A.N. (1991). The use of plant functional attributes and biophysical gradients in estimating fire risk. In: B.R. Roberts (ed.). 'Fire Research in Rural Queensland' pp.216-228. Selected Papers from the Fire Research Workshop Series 1980-1989. Publ. Univ. Southern Queensland.
- Gillison, A.N. (1993a). Overview Chapter, Grasslands of Oceania. In: *Natural Temperate Grasslands: Eurasia, Africa, South America and Oceania*, R.T. Coupland (ed.) In: *Ecosystems of the World* D.W. Goodall, (ed.-in-chief) 8B. pp. 303-313. Amsterdam: Elsevier Scientific Publishing Co.

- Gillison, A.N. (1993b). Grasslands of the Southwest Pacific. In: *Natural Temperate Grasslands: Eurasia, Africa, South America and Oceania*, R.T. Coupland (ed.) In: *Ecosystems of the World* ed.-in-chief D.W. Goodall, 8B. pp. 435-469. Amsterdam: Elsevier Scientific Publ. Co.
- Gillison, A.N. (1994). Woodlands. In: R.H. Groves (ed.) 'Australian Vegetation' Ch. 8. pp. 227-255. Cambridge Univ. Press. 562 pp.
- Gillison, A.N. (1995). Contributor In: N.E. Stork and M.J. Samways (eds): Section 7: Inventorying and Monitoring. (7.2.4. Baseline data). pp. 480-481. In: V. H. Heywood and R.T. Watson (eds.) *Global Biodiversity Assessment*. Cambridge University Press.
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- Gillison, A.N. (2000e). Intermediate agroforests and late fallow systems as optimal strategies for sustainable management of biodiversity and profitability in tropical forests. Paper presented at workshop, *Cultivating (in) tropical forests. The evolution and sustainability of intermediate systems between extractivism and plantations*. CIFOR-FORESASIA, 28 June-1 July 2000, Lofoten, Norway.
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- Gillison, A.N. and Boyle, T.J. (1995). Contributors In: K. Miller, M.H. Alegretti, N.Johnson and B. Jonsson eds: Section 13: Measures for conservation of biodiversity and sustainable use of its components.(13.3.3 Managing biodiversity in forestry) pp. 952-960. In: V. H. Heywood and R.T. Watson (eds.) *Global Biodiversity Assessment*. Cambridge University Press.
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- Gillison, A.N., Liswanti, N. and Ismail A. Rachman (1996). *Rapid Assessment , Kerinci Seblat National Park Buffer Zone: Preliminary report on plant ecology and overview on biodiversity assessment*. CIFOR Working paper No. 14.
- Gillison, A.N., Liswanti, N. and Arief-Rachman, I. (1997). Rapid Ecological Assessment in HPH Pt Serestra II and HPH Pt Bina Samaktha. Pre-implementation, Integrated Conservation and Development Project, Kerinci Seblat National Park. World Wildlife Fund for Nature, Indonesia Program. In: Final Report, Rapid Ecological Assessment in HPH Pt Serestra II and HPH Pt Bina Samaktha. Pre-implementation, Integrated Conservation and Development Project, Kerinci Seblat National Park. World Wildlife Fund for Nature, Indonesia Program. Bappenas, The World Bank.
- Gillison, A.N. and N. Liswanti. (1999). *Biodiversity and productivity assessment for sustainable agroforest ecosystems. Mae Chaem, Northern Thailand: Preliminary Report*. Alternatives to Slash and Burn project International Centre for Research in Agroforestry, Nairobi, Kenya.

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- Vanclay, J., Gillison, A.N. and Keenan, R.J. (1997). Using plant functional attributes to quantify site productivity and growth patterns in mixed forests. *Forest Ecology and Management* 94, 149-163.
- Watling, D. and Gillison, A.N. (1993). Endangered species in low elevation cloud forest on Gau island, Fiji. In: L.S. Hamilton, J.O. Juvik and F.N. Scatena (eds.) *Tropical Montane Cloud Forests*. pp 217-223. Publ. East-West Center; Honolulu, Hawaii.
- Zapfack, L., Weise, S., Ngobo, M., Tchamou, N. and Gillison, A. (2000). Biodiversité et produits forestiers non-ligneux de trois types de jachère du Cameroun méridional. In C. Floret & R. Pontanier "La jachère en Afrique Tropicale" (Ed. 2000): 1: 484-492.

2001-present

- Gillison, A.N. (2002). A generic, computer-assisted method for rapid vegetation classification and survey: tropical and temperate case studies. *Conservation Ecology* 6: 3. [online] URL: <http://www.consecol.org/vol6/iss2/art3>
- Gillison, A.N., D.T. Jones, F.-X. Susilo and D.E. Bignell. (2003). Vegetation indicates diversity of soil macroinvertebrates: a case study with termites along a land-use intensification gradient in lowland Sumatra. *Organisms, Diversity and Evolution* 3:111-126.
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- Gillison, A.N. (2004). Biodiversity Assessment in the North Bank Landscape, North East India. WWF-India, New Delhi, pp. 46.
- Gillison, A.N. (2005). Forecasting biodiversity response to global change in broad-leaved forests: a role for plant functional types. Abstracts, p.37. XVII International Botanical Congress, Vienna, Austria.
- Gillison, A.N. (2005). Generic functional descriptors as a basis for scale-free vegetation classification. Abstracts, p.19. XVII International Botanical Congress, Vienna, Austria.
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- Secretariat of the Convention on Biological Diversity (2003). Interlinkages between biological diversity and climate change. Advice on the integration of biodiversity considerations into the implementation of the United Nations Framework Convention on Climate Change and its Kyoto Protocol, Montreal, SCBD, 154p. (CBD Technical Series no. 10). (A.N. Gillison, contributor).
- Tomich, T. P., M. van Noordwijk, S. Budidarseno, A. Gillison, T. Kusumanto, D. Murdiyarso, F. Stolle, and A. M. Fagi. 2001 Agricultural intensification, deforestation, and the environment: assessing tradeoffs in Sumatra, Indonesia. Pages 221-244 in D. Lee and C. Barrett, editors. *Tradeoffs or synergies? Agricultural intensification, economic development and the environment*. CAB International, Wallingford, UK.
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- Williams, S.E., Gillison, A.N. and van Noordwijk, M. (2001). Biodiversity: issues relevant to integrated natural resource management in the humid tropics. ASB Lecture Note 05, ASB/ICRAF-SEA Lecture Note Series: 'Towards integrated natural resource management in forest margins of the humid tropics: local action and global concerns', Meine van Noordwijk, Sandy Williams and Bruno Verbist (Editors) .

Publications in press - January 2005

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Technical reports (CSIRO)

[Commonwealth Scientific and Industrial Research Organization (CSIRO)
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- No. 77/5 J.Walker, A.N. Gillison, M.S. Hopkins, A.O. Nicholls, J.A. Robertson, A.P. Spate, B.W.R. Tursell and B.R. Tunstall. *The Woodland Ecology Research Program.*
- No. 80/8 Gillison, A.N. and Bennett, R.H., Vegetation of the Puckapunyal training area. In: A.P. Spate compiler, *Natural Resources of the Puckapunyal Training Area*, pp. 56-74.

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Technical Reports 2000-2004

- Gillison, A.N. (1999) (coordinator), *Above-ground biodiversity assessment working group summary report 1996-99. Impact on biodiversity of different land uses. Alternatives to slash and burn project. ICRAF, Nairobi, Part A: Executive summary, pp. 2-3. Part B: Above-ground, ecoregional benchmark surveys. Pp. 4-14.*
- Gillison, A.N. and Liswanti, N. (2000). *Biodiversity and productivity assessment for sustainable agroforest ecosystems. Mae Chaem, Northern Thailand: Preliminary Report. Part D* in: Gillison, A.N. (1999) (coordinator), *Above-ground biodiversity assessment working group summary report 1996-99. Impact on biodiversity of different land uses. Alternatives to slash and burn project. ICRAF, Nairobi. Pp. 38, plus maps and Annexes.*
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INTERNATIONAL CONSULTANCY REPORTS (1988-1992 CSIRO)

- Gillison, A.N. (1988) *Environmental Impact assessment for a proposed oil pipeline across southern Papua. Rainforest Management Investigation. PPL-100 Environment Plan. for Government of Papua New Guinea. (Consultancy undertaken for Natural Systems Research Pty Ltd. on behalf of Chevron Pacific).*
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INTERNATIONAL CONSULTING AND RESEARCH SITES

Australia, (including Christmas Island (Indian Ocean), Australian Sub-Antarctic, Lord Howe and Norfolk islands); India- (Assam, Arunachal Pradesh), Indonesia- (Borneo, Java, Sulawesi, Sumatra), Nepal, South Korea, Outer Mongolia; Thailand, Vietnam, Malaysia (Sabah), Philippines; New Zealand, Nauru, Papua New Guinea, Vanuatu, Solomon Islands, Fiji, W. Samoa, Tonga, Micronesia (Marianas, Ponape, Yap, Truk, Belau); French Polynesia – (Papeete, Moorea); Argentina, Bolivia, Brazil – (Eastern and Western Amazon basin), Chile (incl. Easter island), Colombia, Costa Rica, French Guyana, Guyana, Martinique, Mexico (Veracruz, Yucatan), Panama, Perú, Venezuela; Iceland, Finland, Norway, Sweden; Austria, Germany, Switzerland, UK (England, Scotland), Spain (Canary Is.), Georgia (Central Caucasus Mts); Burkina Faso, Cameroon, Kenya, South Africa, Madagascar, Malawi, Mali, United Arab Emirates; Canada (Ontario, British Columbia), USA (N.E.) including Hawaii and E. Samoa.

LANGUAGE PROFICIENCY

English, mother tongue; limited conversational French and Spanish; fluent in South West Pacific pidgin languages (NeoMelanesian pidgin, Bislama (Vanuatu), including Hiri Motu (Papua); conversational Bahasa Indonesia. Currently studying Portuguese.