

**Professors Peter Kanowski and Rod Keenan – Questions on Notice – Environment Protection and Biodiversity Conservation Amendment (Regional Forest Agreements)
Bill 2020 inquiry - Senator McKenzie**

1. Can you please provide a list of all your research publications relative to native forest operations and forestry?
2. Can you provide community impact studies that you have undertaken relative to forest operations?

1. PERSONAL DATA

CURRICULUM VITAE

(February 2021)

Name: Rodney John Keenan
 Title: Professor of Forest and Ecosystem Science
 Place of birth: Ouse, Australia
 Citizenship: Australian

10. PUBLICATIONS:

Books and Edited Journal Special Issues

Keenan, R.J. 2016. (ed.) Forests and Climate Change special section. Forest Ecology and Management, Vol 360.

Keenan, R. J. 2012. (ed.) Adaptation of Forests and Forest Management to Climate Change. Special Issue. Forests, Vol. 3.

Godden L, Peel J and **Keenan R.J.** 2012. (eds.) Climate Change Law and Governance from the Bottom-up. Special Issue. Climate Law, vol. 2.

Fox, J.C., **Keenan, R. J.** Brack, C. L. and Saulei S. 2011. (eds). Native forest management in Papua New Guinea: advances in assessment, modelling, and decision-making. ACIAR Proceeding No. 135, Australian Centre for International Agricultural Research, Canberra, 201p.

Van Dijk, A.I.J.M. and **Keenan, R.J.** 2007 (eds). Planted forests and water. Special Issue, Forest Ecology and Management, vol. 251.

Refereed Journal Articles

Kurniasih, H., Ford, R.M., Keenan, R.J., King, B., The evolution of community forestry through the growth of interlinked community institutions in Java, Indonesia. World Development 139, 105319.

Paudyal, K., Samsudin, Y.B., Baral, H., Okarda, B., Phuong, V.T., Paudel, S., Keenan, R.J., 2020. Spatial Assessment of Ecosystem Services from Planted Forests in Central Vietnam. Forests 11.

Choden, K., Keenan, R.J., Nitschke, C.R., 2020. An approach for assessing adaptive capacity to

- climate change in resource dependent communities in the Nikachu watershed, Bhutan. *Ecological Indicators* 114, 106293.
- Phouthavong, S., Phimmavong, S., Keenan, R.J., Midgley, S., Gnophanxay, S., 2020. Impact of Pulp Mill Project in Laos: Regional and National Level Economic Modeling Analysis. *FORMATH* 19.
- Sanders, A.J., Ford, R.M., Keenan, R.J., Larson, A.M., 2020. Learning through practice? Learning from the REDD plus demonstration project, Kalimantan Forests and Climate Partnership (KFCP) in Indonesia. *Land Use Policy* 91.
- Phimmavong, S. and R. J. Keenan 2020. Forest plantation development, poverty, and inequality in Laos: A dynamic CGE microsimulation analysis. *Forest Policy and Economics* 111: 102055.
- Phimmavong, S., Keenan, R.J., Ozarska, B., 2020. Impact of Forest Plantation Development in Laos: A Dynamic General Equilibrium Analysis. *FORMATH* 19.
- Kurniasih, H., Ford, R.M., Keenan, R.J., King, B.J., 2020. A Typology of Community Forestry Approaches in Indonesia: Implications for External Support to Forest Communities. *International Forestry Review* 22, 211-224, 214.
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- Keenan, R. J., G. Pozza and J. A. Fitzsimons 2019. Ecosystem services in environmental policy: Barriers and opportunities for increased adoption. *Ecosystem Services* 38: 100943.
- Paudyal, K., H. Baral, S. P. Bhandari, A. Bhandari and R. J. Keenan 2019. Spatial assessment of the impact of land use and land cover change on supply of ecosystem services in Phewa watershed, Nepal. *Ecosystem Services* 36: 100895.
- Phimmavong, S., T. N. Maraseni, R. J. Keenan and G. Cockfield 2019. Financial returns from collaborative investment models of Eucalyptus agroforestry plantations in Lao PDR. *Land Use Policy* 87: 104060.
- Sanders, A. J. P., R. M. Ford, R. J. Keenan and A. M. Larson 2019. Learning through practice? Learning from the REDD+ demonstration project, Kalimantan Forests and Climate Partnership (KFCP) in Indonesia." *Land Use Policy*: 104285.
- Sanders, A. J. P., R. M. Ford, L. Mulyani, R. D. Prasti H, A. M. Larson, Y. Jagau and R. J. Keenan 2019. "Unrelenting games: Multiple negotiations and landscape transformations in the tropical peatlands of Central Kalimantan, Indonesia." *World Development* 117: 196-210.
- Sapkota, P., R. J. Keenan and H. R. Ojha 2019. Co-evolving dynamics in the social-ecological system of community forestry—prospects for ecosystem-based adaptation in the Middle Hills of Nepal. *Regional Environmental Change* 19: 179-192.
- Chu, L., Quentin Grafton, R. and Keenan, R., 2019. Increasing conservation efficiency while maintaining distributive goals with the payment for environmental services. *Ecological Economics*, 156: 202-210
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- Paudyal, K., Baral, H., Bhandari, S.P., Keenan, R.J., 2018a. Design considerations in supporting payments for ecosystem services from community-managed forests in Nepal. *Ecosystem Services* 30, 61-72.
- Paudyal, K., Baral, H., Keenan, R.J., 2018b. Assessing social values of ecosystem services in the Phewa Lake Watershed, Nepal. *Forest Policy and Economics* 90, 67-81.
- Sapkota, P., Keenan, R.J., Ojha, H.R., 2018. Community institutions, social marginalization and the adaptive capacity: A case study of a community forestry user group in the Nepal Himalayas. *Forest Policy and Economics* 92, 55-64.
- Paudyal, K, L Putzel, H Baral, S Chaudhary, R Sharma and Keenan. R.J. 2017. From denuded to green mountains: process and motivating factors of forest landscape restoration in Phewa Lake watershed, Nepal. *International Forestry Review*, 19:75-87.
- Paudyal, K, H Baral, L Putzel, S Bhandari, RJ Keenan. 2017. Change in land use and ecosystem services delivery from community-based forest landscape restoration in the Phewa Lake

watershed, *Nepal International Forestry Review*, 19:88-101.

RJ Keenan 2017. Climate change and Australian production forests: impacts and adaptation *Australian Forestry* 80: 197-207

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Sanders, A. da Silva Hyldmo, H, Prasti H, RH., Ford, RM., Larson, AM, Keenan RJ. 2017. Guinea-pig or pioneer: translating global environmental objectives through to local actions in Central Kalimantan, Indonesia's REDD+ pilot province *Global Environmental Change* 42:68-81

Dressler, W., Wilson D, Clendenning J, Cramb R, Mahanty S, Lasco R, Keenan R.J., To P, Gevana D. 2016. The impact of swidden decline on livelihoods and ecosystem services in Southeast Asia: a review of the evidence from 1990 to 2015. *Ambio* 1-20..

Baral, H., Guariguata M.H, Keenan, R.J. 2016 A proposed framework for assessing ecosystem goods and services from planted forests. *Ecosystem Services* 22:260-268.

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Vega, D.C. and Keenan, R.J. 2016 Situating community forestry enterprises within New Institutional Economic theory: what are the implications for their organization? *Journal of Forest Economics* 25:1-13.

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Keenan, R. J. & Nitschke, C. 2016. Forest management options for adaptation to climate change: a case study of tall, wet eucalypt forests in Victoria's Central Highlands region. *Australian Forestry*, 79:96-107.

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- Baral, H., Keenan, R.J., Fox, J.C., Stork, N.E., Kasel, S. 2014. Economic evaluation of ecosystem goods and services under different landscape management scenarios. *Land Use Policy* 39:54-64.
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- Baral, H., Keenan, R.J., Fox, J.C., Stork, N.E., Kasel, S., 2014. Spatial assessment of ecosystem goods and services in complex production landscapes: A case study south-eastern Australia. *Ecological Complexity* 13:25-45.
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Refereed Book Chapters

Keenan, R. J., H. Nelson, E. Keskitalo and J. Bergh 2019. Climate change adaptation in forest production systems in a globalizing economy. Research Handbook on Climate Change Adaptation Policy, Edward Elgar Publishing.

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Refereed Conference Proceedings

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- Baral H, Kasel S, Keenan R.J., Fox J & Stork N. 2009. GIS-based classification, mapping and valuation of ecosystem services in production landscapes: A case study of the Green Triangle region of south-eastern Australia. In Haines R, Thistlethwaite R & Lamb D(eds), Proceedings of the Biennial Conference of the Institute of Foresters of Australia. 64-71. Institute of Foresters of Australia.

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- Keenan, RJ, Z Ryan and H Stewart. 2020. Climate Change and Carbon Policy Assessment Report. Prepared for the North-North West Tasmania Regional Forestry Hub. 16 November 2020. School of Ecosystem and Forest Sciences, Faculty of Science, University of Melbourne, Melbourne. 86p.
- Keenan, R.J., Anderson, N., Bull, L., Dembeck, K., Kostanski, L. and Patterson, S. 2019. Designing business models for commercial tree growing partnerships on rural land: a guide for the Victorian forest industry: main report. Report 9. Next Generation Forest Plantation Investment Research Project, The University of Melbourne, School of Ecosystem and Forest Sciences, Melbourne.
- Huynh, T.-B. and R. J. Keenan 2019. Forest Plantations and Smallholder Livelihoods: Evidence from Central Region of Vietnam. Project Working Paper 6. ACIAR Project ADP/2014/047 “Improving policies for forest plantations to balance smallholder, industry and environmental needs in Lao PDR and Vietnam, National University of Laos.
- Jenkin, B, Keenan, R & Bull, L 2018, Tree plantation investment and partnerships in Australia: an analysis of past experiences’, Report 1, Next Generation Forest Plantation Investment Research Project, The University of Melbourne, School of Ecosystem and Forest Sciences, Melbourne.
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- Keenan, R.J., Bugg, A.L. and Ainslie, H. 2000. (eds.) Management Options for Carbon Sequestration in Forest, Agricultural and Rangeland Ecosystems. Cooperative Research Centre for Greenhouse Accounting, Canberra, 135 p.
- Keenan, R.J. 2000. What's new in carbon trading? Climate Change Newsletter 12: 5.
- Keith, H., Barrett, D. and Keenan, R. 2000. Review of allometric relationships for estimating woody biomass for NSW, ACT, Victoria, Tasmania and South Australia. National Carbon Accounting System Technical Report No. 5b. Australian Greenhouse Office, Canberra. 113 p.
- Keenan, R.J. 2000. Future rates of establishment and composition of commercial timber plantations in Australia. Internal Report, Bureau of Rural Sciences, Canberra.
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- Keenan, R.J., Annandale, M. and Phillip, S. 1998. North Queensland private forest plantation land suitability study. Internal Report, Queensland Forestry Research Institute, QDPI, Brisbane
- Keenan, R.J. 1995. IUFRO Holds World Congress. Tropical Forest Update, 5:24.
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- Keenan, R.J. 1992. Climate change and Pacific Northwest forests. Inst. For. Aust. Newsletter 33:18-21.
- Keenan, R.J. 1989. The forest industry in Japan. Inst. For. Aust. Newsletter 33:6-9.
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- Keenan R.J. 1984. Management and silviculture of high altitude *Eucalyptus delegatensis* forests. In Keenan R.J. (ed.) Current Research in Tasmanian High Altitude Eucalypt Forests. Occ. Paper series, Geography Dept. University of Tasmania.

Book Reviews

- Keenan, R.J., 2014. Structured decision-making: a practical guide to environmental management choices Gregory R., Failing L., Harstone M., Long G., McDaniels T. and Ohlsen D., Wiley Blackwell, Chichester, 2012. xi + 299 pp. Price A\$165. ISBN 978-1-4443—3341-1 (hardback, also available in paperback and Ebook). *Ecological Management & Restoration* 15, e3-e4.
- Keenan, R.J., 2019. Climate Change in Wildlands: Pioneering Approaches to Science and Management Andrew J. Hansen, William B. Monahan, David M. Theobald and Thomas S. Oliff, eds. Island Press, Washington, 2016, xiv + 391 pp. Price US \$35.00. ISBN: 9781610917124 (paperback, also available in hardback and as an Ebook). *Austral Ecology* 44, 164-165.
- Keenan, R.J. 2000. Greenhouse, Carbon Trading and Land Management. Occasional Paper 23/999LWRRDC, Canberra. *Climate Change Newsletter*, 12:14.
- Keenan, R.J. 2000. The Carbon War: Dispatches from the End of the Oil Century. *Climate Change Newsletter*, 12:15.
- Keenan, R.J. 1996. Australian Rainforests. By P. Adam. *For. Ecol. and Manage.*
- Keenan, R.J. 1996. Ecology and Sustainability of Southern Temperate Ecosystems. Edited by T.W. Norton and S.R. Dovers. *For. Ecol. and Manage.*
- Keenan, R.J. 1995. Tropical Forest Handbook. Edited by L. Pancel. *For. Ecol. and Manage.*
- Keenan, R.J. 1992. The Conservation Atlas of Tropical Forests: Asia and the Pacific. Edited by N.M. Collins, J.A. Sayer, and T.C. Whitmore. *Pacific Affairs*, 65:387-88.
- Keenan, R.J. 1988. The Rainforests of Tasmania. by the Working Group for Rainforest Conservation. *Aust. For.* 51:128-129.
- Keenan, R.J. 1987. Global Deforestation and the Nineteenth Century World Economy. Edited by R.P. Tucker and J.F. Richards. *Aust. For.* 50:193-94.

7. CONFERENCE PRESENTATIONS

- Keenan, RJ. 2019. Increasing tree and forest carbon stocks in Victorian landscapes. Invited presentation to Royal Society of Victoria seminar on Victoria's Regional Forest Agreements: The Contribution of Forests to Global Carbon Cycles. 24 September.
- Keenan, RJ. 2019. Promoting private sector investment in forest restoration in South East Asia. Presentation to Centre for South East Asia Studies, Kyoto University, Japan. 25 July.
- Keenan, RJ. 2018. Preparing future foresters for sustainable forest management and restoration in the Asia and the Pacific. Invited presentation to Asia Pacific Network for Sustainable Forest Management, 10th Anniversary conference. Beijing, China, 26 March 2017
- Keenan, RJ. 2018. Forest ecosystem services in the Asia Pacific: practices and prospects. Invited presentation to International Congress on Planted Forests. Beijing, China. 23-27 October.
- Keenan, RJ. 2018. Landscape level approaches for planted forests in Lao PDR and Vietnam. Invited presentation to International Congress on Planted Forests. Beijing, China. 23-27 October.
- Keenan, RJ. 2018. Policies for improved contributions of planted forests to economies, societies and the environment. Keynote Presentation. International Congress on Planted Forests. Beijing, China. 23-27 October.
- Keenan, RJ. 2016. Policies for improved contributions of forest plantations to economies, societies and the environment. Presentation to IUFRO Asia and Oceania Conference, Beijing, China. 21-23 October
- Keenan, RJ. 2017. Can application of the ecosystem services concept generate improved societal outcomes from natural resource management? Invited presentation to a Workshop on Forest Ecosystem Services in Oceania, Brisbane, Australia 28 March.

- Keenan, R.J. 2016. Challenges in effectively integrating forests in the Paris Agreement. Presentation to IUFRO Asia and Oceania Conference, Beijing, China. 21-23 October
- Keenan, R.J. 2016. Adapting forest management for climate change in Australia: practices, prospects and policies. Presentation to IUFRO Asia and Oceania Conference, Beijing, China. 21-23 October
- Keenan, R.J. 2016. Adaptation of forest management to climate change in the Asia Pacific region. Presentation to Asia Pacific Forestry Week, Clark, Philippines, 22-26 February.
- Keenan, R.J. 2015. Adaptation of forest management to climate change. Presentation to a side event at the World Forestry Congress organised by APFNet, Durban South Africa.
- Keenan, R.J. 2015. Developments in Australian Forestry Education for the 21st Century. Presentation to the DANA Forest Industry Conference, 13 August, Melbourne.
- Keenan, R.J. 2015. Urban forests and adaptation to climate change. Presentation to Urban Forests Masterclass, 24 June, Melbourne.
- Keenan, R.J. 2014. VCCCAR: reflections on the successes and challenges of five years working across the science – policy interface in Australia. Presentation to the Adaptation Futures Conference, 14 May, Fortaleza, Brazil.
- Baral, H. R.J. Keenan and S. Kasel. 2013. Approaches to valuing ecosystem services in multi-functional production landscape in south-western Victoria, Australia. Paper presented to the 6th Annual International Ecosystem Services Partnership Conference 2013. 26-30 August 2013, Bali, Indonesia.
- Kurniasih, H. R. Ford, R. J. Keenan and B. King 2013. Innovation in Indonesian Community Forestry: understanding innovation stages in community forestry development. Paper presented to the International Conference of Indonesia Forestry Researchers 2nd INAFOR, 27-28 August 2013, Bogor, Indonesia.
- Keenan, R.J. 2013. Adaptation of tropical forest management to climate change. Paper presented to the Third Latin American Congress of IUFRO (IUFROLAT) 12-15 June 2013, San Jose, Costa Rica.
- Keenan, R.J. and C. Nitschke 2013. Adaption of forest management to climate change; a case study of tall, wet eucalypts in south-eastern Australia. Institute of Foresters of Australia National Conference (IFA 2013) 7-11 April 2013, Canberra.
- Keenan, R.J., D. McEvoy, N. Tapper and J. Martin 2012. Cooperative adaptation: a government-university partnership to support adaptive capacity in Victoria, Australia. Poster presented at the Adaptation Futures Conference, Tucson, Arizona, 29-31 May 2012.
- Keenan, R.J. 2012. Future shock: science for adapting forest management to climate change. Invited keynote address to an international conference *Tackling climate change: the contribution of forest scientific knowledge* 21 - 24 May, 2012, Tours (France)
- Keenan, R.J. 2011. Adaptation of forest management to climate change: a case study of tall, wet eucalyptus forests in South Eastern Australia. Presentation to an international conference on Forest Biodiversity in a Changing Climate: Understanding Conservation Strategies and Policies, An international in Freiburg, Germany, 22-23 September 2011.
- Keenan, R. J. 2011. Potential impacts of climate change on Australian forests: research and management responses. Invited address to an international workshop on Proactive Adaptation: Challenges and Opportunities for incorporating Climate Change Response within Sustainable Forest Management University of British Columbia, Vancouver. 14-16 February 2011
- Fox, J.C and Keenan, R.J. 2011. 'A Case Study - Forest carbon and REDD+ in Papua New Guinea' in Pacific Forestry: Growing a forestry future, Proceedings of the 2011 Australia & New

Zealand Institutes of Forestry Conference (2 – 5 May 2011) pages 87 – 96

- Keenan, R.J. and Read, S. 2010. Conserving and managing old growth forests in South Eastern Australia in a changing world. Presentation to the IUFRO World Congress, August 2010, Seoul, Korea.
- Fox, J.C, Vieilledent, G., Yosi, C.K., Pokana, J.N., Lavong, K., Keenan, R.J. 2010. Modelling forest carbon dynamics in Papua New Guinea; a hierarchical Bayesian approach. P234. Association for Tropical Biology and Conservation Annual Conference, Bali, 20th July.
- Keenan, R.J. 2009. Indicators for sustainable forest management in a changing world. Invited Keynote Presentation to an International conference on Multipurpose Forest Management, Niigata, Japan, 20-25 September 2009
- Fox, J.C, Yosi, C.K., Keenan, R.J. 2009. Forest Carbon Dynamics in Papua New Guinea; Selective-logging, El Nino and REDD. P 454, Proceedings of the International Conference: Impacts of Global Change on Tropical Ecosystems; Cross-cutting the Abiotic, Biotic and Human Spheres. 27-30 July, 2009. Marburg, Germany.
- Fox, J.C., Yosi, C.K., Keenan, R.J. 2009. Forest carbon assessment in Papua New Guinea. P1, Proceedings of the IUFRO 4.01 Conference; Meeting multiple demands for forest information: New technologies in forest data gathering. City Hall, Mount Gambier, South Australia 17-20 August 2009.
- Fox, J.C, Vieilledent, G., Keenan, R.J. 2009. Modelling aboveground forest carbon dynamics in Papua New Guinea; isolating the influence of selective-logging and El Nino. P.27, Proceedings of the 23rd New Phytologist Symposium; Carbon Cycling in the Tropics. 17-20 November, 2009. Guangzhou, China.
- Fox, J.C, Yosi, C.K., Keenan, R.J. 2008. Growth models for small-scale forest utilization in Papua New Guinea. FORTROP II International Conference Tropical Forestry Change in a Changing World. 18th November 2008
- Fox, J.C, Yosi, C.K., Pokana, J.N. Keenan, R.J. 2008. Estimating standing forest carbon in Papua New Guinea from permanent sample plots. FORTROP II International Conference Tropical Forestry Change in a Changing World. 19th November 2008
- Keenan, R.J. 2008. Green building, the carbon cycle and sustainable forest management: wood for thought. Invited presentation to the Asia Pacific Forest Industries Climate Change Conference – Sydney, Australia 18-20 August 2008
- Keenan, R.J. 2008. Forests, carbon and climate change. Invited presentation to the Ballarat Regional Forum on Climate Change, 12 April 2008.
- Keenan, R.J. and Parsons, M. 2006. Development of forest plantations in Australia. Paper presented to Ecological Society of Australia National Symposium 'Plantations, are they equivalent to native forests?' 11 December, University of Western Sydney.
- Keenan, R.J. 2006. Certification: what is all the fuss about? Paper presented to the symposium 'Windows on Wood', VicForests, Melbourne, 28 November, 2006.
- Keenan, R.J., Thackway, R., Maher, C., Fox, K. and Grafton, Q. 2006. Methods for assessing ecosystem services from planted forests in Australia. Paper presented to the International Congress on Cultivated Forest, Bilbao, Spain, 3-7 October.
- Keenan, R.J. 2006. Synthesis Assessment. Paper presented the Fifth UN-FAO Expert Consultation on the Global Forest Resource Assessment, Kotka, Finland, 12-16 June 2006.
- Keenan, R.J. 2005. Approaches to providing multiple functions and values from forests in Australia. Paper presented at the international conference: 'The

Multifunctional Role of Forests: Policies, Methods and Case Studies' 28-30 April 2005, University of Padova, Italy.

- Keenan, R.J., A. Gerrand, P. Kanowski and R. Stanton 2003. Australian forest plantations: providing industry, environmental and community benefits. Paper presented to XII World Forestry Congress, Quebec City, Canada.
- Keenan, R.J., Davey, S., Grieve, A., Moran, B. and Donaldson, J. 2003. Market mechanisms and assessment methods for environmental services from private forests in Australia. Invited paper to a workshop on 'Forests and Poverty Reduction: opportunities with CDM, environmental services and biodiversity', Seoul, Korea, 27-29 August 2003. Asia Pacific Association of Forest Research Institutions.
- Keenan, R.J. 2002. Farm forestry: integrating conservation of forest resources and farmland development in Australia. Paper presented to the international symposium: Global Perspective in Forest Conservation and Sustainable Agriculture. Obihiro University, Japan, 28-29 August 2002.
- Thackway, R., Wood, M., Atyeo, C., Donohue, R., Allison, B., **Keenan, R.J.**, Lee, A., & Davey, S. (2001). Monitoring status and condition of Australian Mediterranean-type forest ecosystems. *IUFRO Conference on Collecting and analysing information for sustainable forest management and biodiversity monitoring with special reference to mediterranean ecosystems Palermo, Italy, December 2001*.
- Keenan, R. J., Ranatunga, K., Frakes, I. and Bugg, A. 2001. Modelling the effects of timber harvesting on biomass stocks in Australian native forests. In V. Le May and P. Marshall (eds.) *Forest Modelling for Ecosystem Management, Forest Certification and Sustainable Management*. Proceedings of a conference held in Vancouver, BC, Canada, 12-17 August, 2001. Faculty of Forestry, UBC and IUFRO.
- Keenan, R.J., P. Grist, A. Hansard, and A. Grant 2000. Implications of the Kyoto Protocol for Plantation Development. Paper to the FAO International Conference on Timber Plantation Development, 7 — 9 November 2000, Manila, Philippines.
- Keenan, R.J. 2000. Opportunities for private forest owners from increased carbon storage due to additional forest management activities under Article 3.4 of the Kyoto Protocol. In A. Snell and S. Vise (eds.) *Opportunities for the New Millennium*, Australian Forest Growers Biennial Conference, Cairns, September 4-6.
- Keenan, R.J., S. Barry, N. Stephens and M. Annandale 2000. Measuring carbon sequestration in small-scale farm forestry and environmental plantings. Paper presented to the IUFRO Working Group 3.08 Symposium 'Developing Policies to Encourage Small-scale Forestry', Cairns, Australia, 9 - 13 January 2000.
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