

## CLIVE MCALPINE Dr

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**PROPOSED ROLE:** Research Leader  
**CURRENT POSITION:** Research Fellow, School of Geography, Planning and Architecture, The University of Queensland, Brisbane.

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### Research Profile:

Dr McAlpine's major contribution has been in advancing landscape ecological studies and sustainable landscape management in northern Australia. He has a proven track record in landscape ecological studies, including the impact of landscape change on biodiversity. He has been involved in three major fragmentation studies in northern Australia, plus supervising post-graduate students in wildlife-landscape and landscape change studies, publishing national and international journal papers and book chapters on the subject. He was principal investigator on a recently awarded ARC Discovery project and a Land and Water Australia Innovation Call project, plus two recently completed ARC Linkage projects. He has published over 50 refereed book chapters, journal papers and conference proceedings. He currently supervises or co-supervises 9 PhD students plus 5 completed PhD students.

### Publications Top ten in last 5 years:

1. **McAlpine, C. A.**, J. R. Rhodes, J. Callaghan, M. Bowen, D. Lunney, D. Mitchell, D. Pullar, and H. P. Possingham. [accepted Jan 2006]. The importance of forest area and configuration relative to local habitat factors for conserving forest mammals: A case study of koalas in Queensland, Australia. *Biological Conservation*.
2. **McAlpine, C. A.** and T. J. Eyre. 2002. Testing landscape metrics as indicators of habitat loss and fragmentation in continuous eucalypt forests (Queensland, Australia). *Landscape Ecology* 17: 711-728.
3. Etter, A., **McAlpine, C.A.**, Phinn, S., Pullar, D. and Possingham H. [in press]. A dynamic spatial analysis of a tropical deforestation hotspot in the Colombian Amazon. *Global Change Biology* [Accepted January 2006].
4. Rhodes, J. R., **McAlpine, C.A.**, Lunney, D. and Possingham, H. P. 2005a. A Spatially Explicit Habitat Selection Model Incorporating Home Range Behavior. *Ecology* 86: 1199-1205.
5. Rhodes, J. R., T. Wiegand, **C. A. McAlpine**, J. Callaghan, D. Lunney, M. Bowen, and H. P. Possingham. in press. Modelling species distributions for improving conservation in semi-urban landscapes: A koala case study. *Conservation Biology*. in press.
6. **McAlpine, C. A.**, Lindenmayer, D. B, Eyre, T. J. and Phinn, S. P. 2002. Landscape surrogates of forest fragmentation: synthesis of Australian Montreal Process case studies. *Pacific Conservation Biology* 8: 108-109
7. Pittman, S. J. and **McAlpine, C.A.** 2002. Movement of fish and decapod crustaceans: process, theory and application. *Advances in Marine Biology* 44: 205-293.
8. Loyn, R.H., and **McAlpine, C.A.** 2001. Spatial patterns and fragmentation: Indicators for conserving biodiversity in forest landscapes. Pages 391-422 in R. Raison, A. Brown, and D. Flinn, editors. *Criteria and indicators for sustainable forest management*. CAB International, Wallingford, UK.
9. **McAlpine, C. A.**, Bowen, M. E., Callaghan, J. G., Lunney, D., Rhodes, J. R., Mitchell, D., Pullar, D. and Possingham, H. P. [in press]. Testing alternative models for the conservation of Koalas in fragmented rural-urban landscapes. *Austral Ecology* 32.
10. Rhodes, J. R., Tyre, A. J., Jonzén, N., **McAlpine, C. A.** and Possingham, H. P. [2006 in press]. Optimizing presence/absence surveys for detecting population trends. *Journal of Wildlife Management*. [In Press, accepted December 2004]

### Large Research Grants:

McAlpine, Phinn, Pullar and Ludwig. Beyond discrete landscape metrics. ARC Discovery 2006-2009  
Budget \$380,000

McAlpine, Skytus, Phinn, McGowan and Miles. Modelling the impacts of vegetation cover change on regional climate. Land and Water Innovation Call. Budget \$288,000

### Completed:

McAlpine, Possingham, Lunney and Callaghan. ARC Linkage 2001-2005. Conservation and restoration of Koalas in fragmented landscapes. Budget \$270,000

McAlpine, Sytus, Phinn, Crimp. Modelling the impacts of land cover change in Australia. ARC Linkage 2000-2004. Budget \$100,000

McDonald, Taylor, Bellamy, McAlpine. Healthy planning systems. Tropical Savanna CRC. 2003-2006. Budget \$500,000