

## ENVIRONMENTAL SCIENCE

### RHODES UNIVERSITY (SOUTH AFRICA)

#### PUBLICATIONS, REPORTS, CONFERENCES, ETC.

##### 2011 JOURNAL PUBLICATIONS (19)

Davenport, N.A., Gambiza, J. & Shackleton, C.M. 2011. Use and users of municipal commonage around three small towns in the Eastern Cape, South Africa. *Journal of Environmental Management* 92: 1449-1460.

Downsborough, L., Shackleton, C.M. & Knight, A.T. 2011. The potential for voluntary instruments to achieve conservation planning goals: the case of conservancies in South Africa. *Oryx* 45(3): 357-364.

Humphries, M.S., Kindness, A., Ellery, W.N. & Hughes, J.C. 2011. Water chemistry and effect of evapotranspiration on the Mkuze River floodplain, South Africa. *Journal of Arid Environments* 75: 555-565.

Humphries, M.S., Kindness, A., Ellery, W.N. & Hughes, J.C., Bond, J.K. & Barnes, K.B. 2011. Vegetation influences on groundwater salinity and chemical heterogeneity in a freshwater, recharge floodplain wetland, South Africa. *Journal of Hydrology* 411: 130-139.

Kaschula, S. 2011. Using people to cope with the hunger: social networks and food transfers amongst HIV/AIDS afflicted households in KwaZulu-Natal, South Africa. *AIDS and Behavior* 15 (7):1490-1502.

Kull, C.A., Shackleton, C.M., Cunningham, P.J., Ducatillin, C., Dufour-Dror, J-M., Esler, K.J., Friday, J.B., Gouveia, A.C., Griffin, A.R., Marchante, E., Midgley, S.J., Pauchard, A., Rangan, H., Richardson, D.M., Rinaudo, T., Tassin, J., Urgenson, L.S., von Maltitz, G.P., Zenni, R.D. & Zylstra, M.J. 2011. Adoption, use and perception of Australian acacias around the world. *Diversity and Distributions* 17: 822-836.

Kuruneri-Chitepo, C. & Shackleton, C. M. 2011. The distribution, abundance and composition of street trees in selected towns of the Eastern Cape, South Africa. *Urban Forestry & Urban Greening* 10: 247-254.

Mahapatra, A, K. & Shackleton, C.M. 2011. Has deregulation of non-timber forest product controls and marketing in Orissa state (India) affected local patterns of use and marketing. *Forest Policy & Economics* 13: 622-629.

McCarthy, T.S., Tooth, S., Jacobs, Z., Rowberry, M.D., Thompson, M., Brandt, D., Hancox, P.J., Marren, P.H., Woodborne, S. & Ellery, W.N. 2011. The origin and development of the Nyl River floodplain wetland, Limpopo Province, South Africa: trunk-tributary river interactions in a dryland setting. *South African Geographical Journal* 93(2): 172-190.

Mondaca-Schachermayer, C.I., Aburto, J., Cundill, G., Lancellotti, D., Stotz, C. & Stotz, W. 2011. An empirical analysis of the social and ecological outcomes of state subsidies for small-scale fisheries: case studies from Chile. *Ecology & Society* 16(3): 17.

Nocita, M; Kooistra, L.; Bachmann, M; Muller, A., Powell, M. & Weel, S. 2011. Predictions of soil surface and topsoil organic carbon content through the use of laboratory and field spectroscopy in the Albany Thicket Biome of the Eastern Cape Province of South Africa. *Geoderma* 167-168: 295-302.

Paumgarten, F. & Shackleton, C.M. 2011. The role of non-timber forest products in household coping strategies in South Africa: the influence of household wealth and gender. *Population & Environment* 33: 101-131.

Puttick, J.R., Hoffman, M.T. & Gambiza, J. 2011. Historical and recent land use impacts on the vegetation of Bathurst, a municipal commonage in the Eastern Cape, South Africa. *African Journal of Range & Forage Science* 28(1): 9-20.

Shackleton, C.M., Scholes, B.J., Vogel, C., Wynberg, R., Abrahamse, T., Shackleton, S.E., Ellery, F. & Gambiza, J. 2011. The next decade of environmental science in South Africa: a horizon scan. *South African*

*Geographical Journal* 93(1): 1-14.

Shackleton, C.M. & Scholes, B.J. 2011. Above ground woody community attributes, biomass and carbon stocks along a rainfall gradient in the savannas of the central lowveld, South Africa. *South African Journal of Botany* 77: 184-192.

Shackleton, S.E., Paumgarten, F., Kassa, H., Husselman, M. & Zida, M. 2011. Opportunities for enhancing poor women's socio-economic empowerment in the value chains of three African non-timber forest products (NTFPs). *International Forestry Review* 13(2): 136-151.

Shackleton, S.E., Kirby, D. & Gambiza, J. 2011. Invasive plants – friends or foes? Contribution of prickly pear (*Opuntia ficus-indica*) to livelihoods in Makana Municipality, Eastern Cape, South Africa. *Development Southern Africa* 28(2): 177-193.

Sieben, E.J.J. Ellery, W.N., Kotze, D.C. & Rountree, M. 2011. Hierarchical spatial organization and prioritization of wetlands: a conceptual model for wetlands rehabilitation in South Africa. *Wetlands Ecology & Management* 19: 209-222.

Thondhlana, G., Shackleton, S.E. & Muchapondwa, E. 2011. Kgalagadi Transfrontier Park and its land claimants: a pre and post-land claim conservation and development history. *Environmental Research Letters* 6: 1-12.

## **2011 BOOK CONTRIBUTIONS (14)**

Shackleton, C.M., Shackleton, S.E. & Shanley, P. 2011. Building a holistic picture: an integrative analysis of current and future prospects for non-timber forest products in a changing world. In: Shackleton, S.E., Shackleton, C.M., & Shanley, P. (eds). *Non-timber forest products in the global context*. Springer. pp. 255-280.

Shackleton, C.M., Delang, C., Shackleton, S.E. & Shanley, P. 2011. Chapter 1. Non-timber forest products: concept and definition. In: Shackleton, S.E., Shackleton, C.M., & Shanley, P. (eds). *Non-timber forest products in the global context*. Springer. pp. 3-22.

Shackleton, S.E., Delang & Angelsen, A. 2011. Chapter 5. From subsistence to safety nets and cash income: exploring the diverse values of non-timber forest products for livelihoods & poverty alleviation. In: Shackleton, S.E., Shackleton, C.M. & Shanley, P. (eds). *Non-timber forest products in the global context*. Springer. pp. 55-82.

Ticktin, T. & Shackleton, C.M. 2011. Chapter 7. Harvesting non-timber forest products sustainably – opportunities and challenges. In: Shackleton, S.E., Shackleton, C.M., & Shanley, P. (eds). *Non-timber forest products in the global context*. Springer. pp. 149-170.

Shackleton, S.E., Shackleton, C.M. & Shanley, P. (eds). 2011. *Non-timber forest products in the global context*. Springer, Heidelberg. ISBN 978-3-642-17982-2.

Lund, J., F., Shackleton, S.E. & Luckert, M. 2011. Chapter 11. Getting quality data. In: Angelsen, A., Smith-Hall, C., Overgaard Larsen, H., Lund, J. F. & Wunder, S. *Measuring livelihoods and environmental dependence: methods for research and fieldwork*. Earthscan. pp. 175-190.

Cundill, G., Shackleton, S.E. & Overgaard Larsen, H. 2011. Chapter 5. Collecting contextual information. In: Angelsen, A., Smith-Hall, C., Overgaard Larsen, H., Lund, J.F. & Wunder, S. (eds). *Measuring livelihoods and environmental dependence: methods for research and fieldwork*. Earthscan, London. pp.71-88.

Paumgarten, F. & Shackleton, C.M. 2011. Household vulnerability and the safety-net function of NTFPs in the Eastern Cape and Limpopo provinces of South Africa. In: Geldenhuys C.J, Ham C, & Ham H (eds.). *Sustainable forest management in Africa: some solutions to natural forest management problems in Africa*. Proceedings of the Sustainable Forest Management in Africa Symposium. Stellenbosch, 3 – 7 November 2008. pp. 337-350. ISBN: 978-0-7972-1345-6.

Shackleton, S.E. & Shackleton, C.M. 2011. Exploring the role of wild natural resources in poverty alleviation

with an emphasis on South Africa. In: Hebinck, P. & Shackleton, C.M. (eds). *Reforming land and resource use in South Africa: impact on livelihoods*. Routledge, London. pp. 209-234.

Hebinck, P. & Shackleton, C.M. (eds). 2011. *Reforming land and resource use in South Africa: impacts on livelihoods*. Routledge, London. 336pp. (ISBN 978-0-415-58855-3).

Hebinck, P. & Shackleton, C.M. 2011. Land and resource reform in South Africa: multiple realities, contradictions and paradigm shifts. In: Hebinck, P. & Shackleton, C.M (eds). *Reforming land and resource use in South Africa: impact on livelihoods*. Routledge, London. pp. 315-330.

Hebinck, P. & Shackleton, C.M. 2011. Livelihoods, resources and land reform. In: Hebinck, P. & Shackleton, C.M (eds). *Reforming land and resource use in South Africa: impact on livelihoods*. Routledge, London. pp. 1-32.

Wollenberg, E., Campbell, E., Shackleton, S., Edmunds, D. & Shanley, P. 2011. CAPRI (CGIAR Systemwide Program on Collective Action and Property Rights). 2010. *Resources, Rights and Cooperation: a sourcebook on property rights and collective action for sustainable development*. International Food Policy Research Institute: Washington, DC. pp. 99-103.

Weyer, D.J. & Shackleton, S.E. 2011. Informing forest restoration: An appraisal of local ecological knowledge from a community on the Wild Coast of South Africa. Proceedings of the Sustainable Forest Management in Africa Symposium. Stellenbosch, 3 – 7 November 2008. pp. 417-427. ISBN: 978-0-7972-1345-6.

#### **2011 POLICY BRIEFS AND POPULAR ARTICLES (4)**

Ellery, W.N. 2011. Wetlands and Climate Change. *Landscape SA*, March, pp. 52-55. ISSN 1817-4715.

Evans, M. & Ward, C. 2011. Urbanisation and natural resource use in Phalaborwa, South Africa. *AHEAD-GLTFCA* July 20. [www.aheadgltfca.za.net/healthone.html](http://www.aheadgltfca.za.net/healthone.html).

Shackleton, C.M. 2011. Wildlife crucial commodity in rural resource management. *Mail & Guardian* Jan 21-27, pg 43.

Shackleton, C.M. 2011. Not seeing the trees for the houses. *Grocotts Mail*, 9 September, 142 (735): 14.

#### **2011 CONFERENCE PRESENTATIONS (24)**

Alexander, J., Cocks, M. & Shackleton, C.M. 2011. The role of cultural environmental narratives and cultural landscape values for improved community conservation programmes. (Paper). 37<sup>th</sup> Annual Congress of the South African Association of Botanists, 17-19<sup>th</sup> January, Grahamstown.

Cassidy, K.M. 2011. Can artificial bird perches aid in thicket restoration? (Poster) Annual Thicket Forum, 2-3<sup>rd</sup> November, Grahamstown.

Curran, P. 2011. Carbon markets, certification and landscape restoration: a review. Thicket Forum. 2nd – 3rd November, the Monument, Grahamstown, Eastern Cape.

Cundill, G. 2011. Response to Spangenberg, J. Sustainability science: a review, an analysis and some empirical lessons. International Conference on Environmental Future. July. Newcastle University, Newcastle, UK. Invited speaker.

Drescher, A.W., Shackleton, C.M., Schlesinger, J. & Karg, H. 2011. Locating the margin? Agriculture and livelihoods along the rural-urban continuum of African mid-sized towns. Annual Tropentag Conference “Development of the Margin”, 5-7<sup>th</sup> October, Bonn (Germany).

Gambiza, J. & Lal, R. 2011. The science dimension of achieving zero net land degradation (Paper). UNFCCC-COP 17, 28 Nov - 09 Dec, Durban, South Africa.

Kannan, R., Shackleton, C.M., Uma Shaanker, R. & Ganeshaiah, K.N. 2011. Reconstructing the history of *Lantana* introduction and spread in India (Poster). 11<sup>th</sup> International conference on the ecology and management of alien plant invasions, 30<sup>th</sup> Aug – 3<sup>rd</sup> Sept, Szombathely (Hungary).

Kulundu, I and Cundill, G. 2011. Beyond outreach: The development of social learning methodologies for community engagement towards adaptation to climate change and HIV/AIDS (Poster presentation). Conference: Community engagement: the changing role of South African Universities in development. November. East London, South Africa. (Poster presentation).

Makame, M.O. 2011. Climate change, variability and fresh water security in Zanzibar coastal coral rag zones. First International Symposium on impacts, vulnerability and adaptation to climate change in small island development states: 'Implications for poverty reduction', 12-14 Dec, Zanzibar, Tanzania.

Paumgarten, F. & Shackleton, C.M. 2011. *The role of non-timber forest products (NTFPs) in coping with crop shortfalls and loss in two villages in South Africa.* (Paper). 13<sup>th</sup> Biennial Conference of the International Association for the Study of the Commons, 12-17 January, Hyderabad (India)

Powell, M. 2011. Creating new South African rural economies through ecological restoration and international carbon markets (Paper). COP17, 28 Nov-9 Dec, Durban.

Shackleton, C.M. 2011. Trees and human well-being (Paper). 4<sup>th</sup> annual SAEON-GSN Indibano, 30<sup>th</sup> Oct – 3<sup>rd</sup> Nov, Assegaai Trails, Grahamstown.

Shackleton, C.M. 2011. In search of a trans-disciplinary ecology: the potential of ecosystems services. "6<sup>th</sup> International Conference on Environmental Futures", 18-22<sup>nd</sup> July, Newcastle (England).

Shackleton, C.M. & Mahapatra, A. 2011. Perceived benefits of deregulation of forest product markets in Orissa, India (Paper). 37<sup>th</sup> Annual Congress of the South African Association of Botanists, 17-19<sup>th</sup> January, Grahamstown.

Shackleton, S.E. 2011. Livelihood and ecosystem vulnerability in Southern Africa: Consequences for conservation (Paper). 37<sup>th</sup> Annual Conference of the South African Association of Botanists (SAAB) "Plants in a Changing World". Rhodes University, 17 - 19 January 2011, Grahamstown.

Shackleton, S.E. 2011. Linking human vulnerability, NTFP use and dependency and ecosystem vulnerability with a focus on southern Africa (Paper). Symposium: Non-timber Forest Products and impacts of harvest in a changing world. Association for Tropical Biology and Conservation (ATBC) and Society for Conservation Biology (Africa Section). Joint Meeting, 12 – 16 June, Arusha, Tanzania. Key note speaker.

Shackleton, S.E. 2011. Building resilience amongst vulnerable natural resource dependent communities in an increasing risky and uncertain world: Understandings from South and southern Africa (Paper). International Symposium - Building Social-Ecological Resilience in a Changing World. Research Institute for Humanity and Nature, 18-21 June. Invited plenary speaker.

Shackleton, S.E. (2011). Improving our understanding of dry forests, climate change, vulnerability and adaptation in Africa. (Paper). Dry Forests Symposium. Defining a research agenda for Africa's dry forests. December 1, Durban, South Africa. Invited plenary speaker for sub-plenary on Climate Change Adaptation.

Shackleton, S.E. (2011). Why don't people always respond to perceived climate change? Thinking about the limits and barriers to climate change adaptation in coastal areas and small island states. (Paper). 1<sup>st</sup> International Symposium on Impacts, Vulnerability and Adaptation to Climate Change in Small Island Developing States: Implications for Poverty Reduction. 12-14 December, Stone Town, Zanzibar, Tanzania. Invited key note speaker.

Shackleton, S.E. (2011). Social learning for climate change adaptation. Sharing experiences from the Jonga phambili Sinethemba (moving forward with hope) project "Vulnerability, coping and adaptation within the context of climate change and HIV/AIDS in South Africa. (Paper). Side Event on "Gender, justice and social learning: Exploring theory and practice in adaptation" at UNFCCC COP 17, 30 November, Durban.

Shackleton, S.E. (2011). Linking human and ecosystem vulnerability in Africa's dry forests. Focal point: Theme 5: Landscape approaches, change and adaptation in African drylands: reversing deforestation while contributing to food security. Forest Day 5, UNFCCC COP 17, 3 December, Durban.

Shackleton S.E., Paumgarten, F., Kassa, H., Husselman, M. & Zida, M. 2011. Opportunities and constraints to enhancing women's economic empowerment in the value chains of 3 African dry forest NTFPs (Paper). Fifth Natural Forests and Woodlands Symposium: "Towards sustainable natural resource management in a changing environment", 10-14 April, Richards Bay.

Stadler, L., Shackleton, S.E. and Cundill, G. 2011. Conceptualising and understanding the links between women's livelihoods, climate change, HIV/AIDS and ecosystem services: impacts and responses from two rural communities in South Africa (Paper). International conference on Gender and Climate Change: Women, Research and Action. 16 Sept, Prato, Italy.

Thondhlana, G., Shackleton, S.E and Blignaut, J. 2011. Institutions, actors and natural resource governance: the case of Kgalagadi Transfrontier Park and the neighbouring San and Mier communities. (Paper) International Conference on Sustainable Development of Natural Resources in Africa, Accra, Ghana, 5 – 7 December 2011.

## **2011 RESEARCH REPORTS ()**