



DEPT OF ENVIRONMENTAL SCIENCE

2014 PUBLICATIONS, REPORTS, CONFERENCES

JOURNAL PUBLICATIONS (23)

Aburto, J., Stotz, W.B. & Cundill, G. 2014. Social-ecological collapse: TURF governance in the context of highly variable resources in Chile. *Ecology & Society*, 19(1): 2.

Cundill, G., Lotz-Sisitka, H., Mukute, M., Belay, M., Shackleton, S. & Kulundu, I. 2014. A reflection on the use of case studies as a methodology for social learning research in sub Saharan Africa. *NJAS – Wageningen Journal of Life Sciences*, 69: 39-47.

De Lacy, P. & Shackleton, C.M. 2014. The comparative growth rates of indigenous street and garden trees in Grahamstown, South Africa. *South African Journal of Botany*, 92: 94-96.

Fabricius, C. & Cundill, G. 2014. Learning in adaptive management: Insights from published practice. *Ecology & Society*, 19(1): 29.

Grenfell, S.E., Grenfell, M.C., Rowntree, K.M. & Ellery, W.N. 2014. Fluvial connectivity and climate: A comparison of channel pattern and process in two climatically contrasting fluvial sedimentary systems in South Africa. *Geomorphology*, 205: 142-154.

Hoosein, S., Whittington-Jones, K. & Tandlich, R. 2014. Sanitation policy and prevention of environmental contamination in South Africa. *Environmental Engineering and Management Journal*, 13(6): 1335-1340.

Kannan, R. Shackleton, C.M. & Uma Shaanker, R. 2014. Invasive alien species as drivers in socio-ecological systems: local adaptations towards use of *Lantana* in Southern India. *Environment, Development & Sustainability*, 16: 649-669.

Kaoma, H. & Shackleton, C.M. 2014. Collection and use of urban tree products by households in poorer residential areas of three South African towns. *Urban Forestry & Urban Greening*, 13: 244-252.

Kaoma, H. & Shackleton, C.M. 2014. Homestead greening is widespread amongst the urban poor in three medium-sized South African towns. *Urban Ecosystems*, 17: 1191-1207.

Masubelele, M.L., Hoffman, M.T., Bond, W.J. & Gambiza, J. 2014. A 50 year study shows grass cover has increased in shrublands of semi-arid South Africa. *Journal of Arid Environments*, 104: 43-51.

Moncrieff, G.R., Lehmann, C.E.R., Schnitzler, J., Gambiza, J., Hiernaux, P., Ryan, C.M., Shackleton, C.M., Williams, R.J. & Higgins, H.I. 2014. Contrasting architecture of key African and Australian savanna tree taxa drives intercontinental structural divergence. *Global Ecology & Biogeography*, 23: 1235-1244.

Muller, C. & Shackleton, S. 2014. Perceptions of climate change and barriers to adaptation amongst commonage and commercial livestock farmers in the semi-arid Eastern Cape Karoo. *African Journal of Range and Forage Science*, 31(1): 1-12.

Poppy, G.M., Chiotha, S., Eigenbrod, F., Harvey, C.A., Honzak, M., Hudson, M.D., Jarvis, A., Madise, N.J., Schreckenber, K., Shackleton, C.M., Villa, F. & Dawson, T.P. 2014. Food Security in a perfect storm: using the ecosystem services framework to increase understanding. *Phil. Trans. R.Soc, B*, 369: 20120288.

Richardson, E. & Shackleton, C.M. 2014. The extent and perceptions of vandalism as a cause of street tree damage in small towns in the Eastern Cape, South Africa. *Urban Forestry & Urban Greening*, 13: 425-432.

Shackleton, C.M., Hebinck, P., Kaoma, H., Chishaleshale, M., Chinyimba, A., Shackleton, S.E., Gambiza, J. & Gumbo, D. 2014. Low-cost housing developments in South Africa miss the opportunities for household level urban greening. *Land Use Policy*, 36: 500-509.

Shackleton, C.M. & Pandey, A.K. 2014. Positioning non-timber forest products on the development agenda. *Forest Policy and Economics*, 38: 1-7.

Shackleton, S., Cobban, L. & Cundill, G. 2014. A gendered perspective of vulnerability to multiple stressors, including climate change in the rural Eastern Cape, South Africa. *Agenda: Empowering women for gender equity*, 28(3): 73-89.

Spires, M., Shackleton, S.E. & Cundill, G. 2014. Barriers to implementing planned community-based adaptation in developing countries: a systematic literature review. *Climate and Development*, 6(3): 277-287.

Thondhlana, G., Muchapondwa, E. 2014. Dependence on environmental resources and implications for household welfare: Evidence from the Kalahari drylands, South Africa. *Ecological Economics*, 108: 59-67.

Thondhlana, G. & Shackleton, S. 2014. Cultural values of natural resources among the San people neighbouring Kgalagadi Transfrontier Park, South Africa. *Local Environment: The International Journal of Justice and Sustainability*, 20(1): 18-33.

Thondhlana, G. & Belluigi, D.Z. 2014. Group-work as 'terrains of learning' for students in South African higher education. *Perspectives in Education*, 32(4): 40-55.

Trefry, A., Parkins, J.R. & Cundill, G. 2014. Culture and food security: a case study of homestead food production in South Africa. *Food Security*, 6:555-565.

BOOK CONTRIBUTIONS (4)

Cundill, G., Shackleton, S., Sisitka, L., Ntshudu, M., Lotz-Sisitka, H., Kulundu, I., Hamer, N. 2014. Social learning for adaptation: a descriptive handbook for practitioners and action researchers. IDRC/Rhodes University/Ruliv. ISBN 9780868104805.

Luckert, M.K., Nemarundwe, N., Hauer, G., Shackleton, S., & Grundy, I. 2014. Contribution of baobab production activities to household livelihoods. In: Cunningham, A.B., Campbell, B. M. and Luckert, M.K. (eds). *Bark use, management and commerce in Africa. Advances in Economic Botany*. New York Botanical Garden Press. 304 pp.

Romero, C., Dovie, D., Gambiza, J., Luoga, E., Schmitt, S. & Grundy, I. 2014. Effects of commercial bark harvesting on *Adansonia digitata* (Baobab) in the Save-Odzi Valley, Zimbabwe, with considerations for its management. . In: Cunningham, A.B., Campbell, B. M. and Luckert, M.K. (eds). *Bark use, management and commerce in Africa. Advances in Economic Botany*. New York Botanical Garden Press. 304 pp.

Shackleton, S.E. (2014). Forest collection activities and climate change: Impacts of climate change on non-timber forest products. Chapter 117. In: Freedman, B. (ed.). *Handbook on global environmental change*. Springer Science and Business Media, Heidelberg. DOI 10,1007/978-94-007-5784-4_117.

POLICY BRIEFS AND POPULAR ARTICLES (4)

Gwedla, N. & Shackleton, C.M. 2014. Urban forestry for sustainable towns: the visions of municipal parks managers in the Eastern Cape. *Environmental Management*, 9(1): Feb/Mar, 22-23.

Ndlovu P, Luckert M. & Shackleton S. 2014. How can social grants be made to work better for households in rural Eastern Cape? DES, Policy Brief No. 9.

Hamer N. & Shackleton S. 2014. How do social, environmental and economic stressors interact to constrain people's ability to improve their livelihoods and respond to change and what does this mean for policies? DES, Policy Brief No. 10.

Shackleton, C.M., Schlesinger, J., Kaoma, H., Davenport, N., Ward, C., Evans, M. & Drescher, A. 2014. Natural resource products contribute to poverty mitigation amongst urbanising communities in sub-Saharan Africa. Policy Brief 11, Dept of Environmental Science, Rhodes University, Grahamstown. 7 pp.

CONFERENCE PRESENTATIONS (28)

Published conference proceedings

Shackleton, S., Marty Luckert, Georgina Cundill, Leigh Cobban, Caryn Clarke, Ross Shackleton and Patrick Ndlovu. (2014). Transformation and barriers in the context of multiple stressors: Understandings from two rural sites in the Eastern Cape, South Africa. Proceedings of Transformation in a Changing Climate 19-21 June 2013, Oslo, Norway. University of Oslo, Trykktet. ISBN: 978-82-570-2000-2.

Presentations & Posters

Chadzwinga, K. & Cundill, G. (Paper 1). Access to land, water and ecosystem services: Identifying sources of innovation for social-ecological transformation in South Africa. Resilience2014: Mobilising for Development & Transformation, 4-6 May 2014, Montpellier, France.

Cruz-Garcia, G.S., Cubillos, M.V., Torres-Vitolas, C., Harvey, C., Schreckenber, K. & Shackleton, C.M. 2014. Ecosystem services in the Colombian Amazon through a gender lens. (Paper). Ecosystems Services Partnership, 8-12 Sept, San Jose (Costa Rica).

Cundill, G. (Paper 2). Collaborative forms of management for transformation and equity in access to ecosystem services: Lessons from land reform processes in South Africa. Resilience2014: Mobilising for Development & Transformation, 4-6 May 2014, Montpellier, France.

Cundill, G. (Paper 3). Breaking points at the margin: Community mobilization and the continued failure of co-management of protected areas in South Africa. Resilience2014: Mobilising for Development & Transformation, 4-6 May 2014, Montpellier, France.

Cundill, G and Schoon, M. (PANEL). Collaborative governance and management in support of transformation and equity in access to ecosystem services: Revisiting theory through reflections on global practice in the developed and developing world. Resilience2014: Mobilising for Development & Transformation, 4-6 May 2014, Montpellier, France.

Dubazane, N. and Cundill, G. (Paper 4). Strengthening resilience in wetland social ecology. Resilience2014: Mobilising for Development & Transformation, 4-6 May 2014, Montpellier, France.

De Lacy, P. 2014. Tree species composition and congregant appreciation of the cultural and spiritual services provided by cemeteries and churchyards in Grahamstown, South Africa. (Paper). Intn conference on "Urban tree Diversity", 16-18 June, Alnarp (Sweden).

Gwedla, N. 2014. Municipal parks managers' development visions and attitudes towards urban forestry in South African towns. (Paper). Intn conference on "Urban tree Diversity", 16-18 June, Alnarp (Sweden).

Gwedla, N. & Shackleton, C.M. 2014. Urban forestry in the Eastern Cape: limitations and a way forward. (Poster). 6th Annual Forest Science Symposium, 29-30 July, Hilton (South Africa).

Hamer, N., Cundill G and Shackleton, S. (2014). *Community led social learning innovation model for adaptation to climate change*. Ecohealth symposium, 10-11 March, Johannesburg.

Hamer, N. 2014. The key results of the South African, Ecohealth project 'Vulnerability, Coping and Adaptation in the context of HIV/Aids and Climate Change. Ecohealth symposium, 10-11 March, Johannesburg.

Joubert, R., Rowntree, K & Ellery, W.N. 2014. Recent changes in river-floodplain connectivity in the Baviaans catchment, Eastern Cape: implications for floodplain restoration. International Association of Sediment and Water Scientists, Rhodes University, Grahamstown, 15-18 July.

Ntshudu, M. 2014. Community Stakeholder Experiences and Perspectives of the South African, Ecohealth project. Ecohealth symposium, 10-11 March, Johannesburg.

Mtati, N & Shackleton, C.M. 2014 Importance of NTFP's in livelihoods in Guquka and Koloni: Household use. (Presentation). 6th Annual Forest Science Symposium, 29-30 July, Hilton (South Africa).

Ruwanza, S. & Shackleton, C.M. 2014. Density and regrowth of a forest restio (*Ischyrolepis eleocharis*) under harvest and non-harvest treatments in dune forests of the Eastern Cape province, South Africa. (Poster). Arid Zone Ecology – Thicket Fusion Forum, 8-11 Sept, Grahamstown (South Africa).

Sachikonye, M.T. & Shackleton, C.M. 2014. Natural resource use as a coping and adaptation strategy to floods of vulnerable populations in the Eastern Cape. (Paper). 6th Interdisciplinary Postgrad Conference (IPGC), 8-10 Oct, Grahamstown (South Africa).

Shackleton, S.E., Shackleton R.T. and Janse Van Vuuren, A. (2014). Ecosystem services and disservices invasive alien tree species in the Kalahari. Arid Zone – Thicket Fusion Forum, 8 -11 September 2014. Barratt Lecture Complex, Rhodes University, Grahamstown.

Shackleton, S.E. Are women more vulnerable to climate change and other interacting stressors in the rural Eastern Cape, South Africa? Technical session 05 (92). Gender, participation and climate change. 24th IUFRO World Congress, Salt Lake City, Utah, USA, 6 – 11 October, 2014. (Invited speaker for session).

Shackleton, S, Paumgarten, F., Kassa, H., Husselman, M. and Zida, M. (2011). Opportunities and constraints to enhancing women's economic empowerment in the value chains of 3 African dry forest NTFPs. 24th IUFRO World Congress, Salt Lake City, Utah, USA, 6 – 11 October, 2014. (Invited speaker for session).

Shackleton, S.E., Ziervogel, G., Sallu, S., Gill, T and Tschakert, P. 2014. Understanding the barriers and constraints to climate change adaptation: insights from a review of empirical cases in Africa. Society of South African Geographers' 10th Conference. Fort Hare University, East London, 22- 27 June. Session on: Reflections on adaptation to climate change processes. Convened by Ziervogel, G. and Shackleton. SE.

Shackleton, C.M. 2014. A diversity of species, perceptions and settings: patterns of tree species richness, abundance and uses in small towns in South Africa. (Paper). Intn conference on "Urban tree Diversity", 16-18 June, Alnarp (Sweden).

Sinasson Sanni, G. & Shackleton, C.M. 2014. Which factors can explain changes in the distribution range of *Mimusops andongensis* Hiern in Benin? (Paper). IUFRO congress, 13-16 Oct, Salt Lake City (USA).

Sinasson Sanni, G. & Shackleton, C.M. 2014. Combined impact of exploitation and habitat degradation on the abundance and structure of *Mimusops andongensis* Hiern in Benin. (Paper). IUFRO congress, 13-16 Oct, Salt Lake City (USA).

Spires, M. 2014. Understanding and implementing climate change adaptation at the local level: Uniformity and/or flexibility in South African municipalities. (Presentation). 27 June 2014, Society of South African Geographers' 10th Conference. Fort Hare University, East London Campus.

Tata-Ngome, P., Shackleton, C.M., Degrande, A. & Tieguhong, J.C. 2014. Hunger and undernourishment in forested areas: Positioning wild edible plants in food security and nutrition debates in sub-Saharan Africa. (Paper). World Congress on Agroforestry, 10-14 Feb, Delhi (India).

Thondhlana, G. 2014. Co-management and conflicts in Silaka Nature Reserve, South Africa. What can we learn? International Symposium on Society & Resource Management - Challenges of Urban and Rural Transformation. 9-13 June, Leibniz Universität Hannover, Germany.

Ziervogel, G. and Shackleton, S.E. Session convenors. Reflections on adaptation to climate change processes. Society of South African Geographers' 10th Conference, Fort Hare University, East London, 22- 27 June.

RESEARCH REPORTS (1)

Thondhlana, G. 2014. The local livelihood implications of biofuel development and land acquisitions in Zimbabwe. *Africa Initiative Discussion Paper No 11*. Center for International Governance Initiative. <http://www.cigionline.org/publications/2014/1/local-livelihood-implications-of-biofuel-development-and-land-acquisitions-zimba>

DVDs

Nqelenga P. & Hamer N. (2014). *Lesseyton Imbizo documentary DVD*, Grahamstown.