



DEPT OF ENVIRONMENTAL SCIENCE

2012 PUBLICATIONS, REPORTS, CONFERENCES

JOURNAL PUBLICATIONS (15)

Biggs, R., Schluter, J., Biggs, D., Bohensky, E.L., BurnSilver, S., Cundill, G., Dakos, V., Daw, T.M., Evans, L.S., Kotschy, K., Leitch, A.M., Meek, C., Quinlan, A., Raudsepp-Hearne, C., Robards, M.D., Schoon, M.L., Schultz, L. & West, P.C. 2012. Toward principles for enhancing the resilience of ecosystem services. *Annual Review of Environment & Resources*, 37: 421-448.

Clarke, C.L., Shackleton, S.E. & Powell, M. 2012. Climate change perceptions, drought responses and views on carbon farming amongst commercial livestock and game farmers in the semiarid Great Fish River Valley, Eastern Cape province, South Africa. *African Journal of Range & Forage Science*, 29(1): 13-23.

Cundill, G., Cumming, G., Biggs, D. and Fabricius, C. 2011. Soft systems thinking and social learning for adaptive management. *Conservation Biology*, 26(1): 13-20.

Cundill, G. & Rodela, R. 2012. A review of assertions about the processes and outcomes of social learning in natural resource management. *Journal of Environmental Management*, 113: 7-14.

Curran, P., Smedley, D., Thompson, P. & Knight, A.T. 2012. Mapping restoration opportunity for collaborating with land managers in a carbon credit-funded restoration program in the Makana Municipality, Eastern Cape, South Africa. *Restoration Ecology*, 20(1): 56-64.

Davenport, N.A., Shackleton, C.M. & Gambiza, J. 2012. The direct use value of municipal commonage goods and services to urban households in the Eastern Cape, South Africa. *Land Use Policy*, 29: 548-557.

Ellery, W.N., Grenfell, S.E., Grenfell, M.C., Humphries, M.S., Barnes, K., Dahlber, A. & Kindness, A. 2012. Peat formation in the context of the development of the Mkuze floodplain on the coastal plain of Maputaland, South Africa. *Geomorphology*, 141-142: 11-20.

Kotze, D.C., Ellery, W.N., MacFarlane, D.M. & Jewitt, G.P.W. 2012. A rapid assessment method for coupling anthropogenic stressors and wetland ecological condition. *Ecological Indicators*, 13: 284-293.

Kaschula, S.A. & Shackleton, C.M. 2012. How do HIV & AIDS impact the use of natural resources by poor rural populations? The case of wild animal products. *South African Journal of Science*, 108(1/2): 46-54.

Mahapatra, A.K. & Shackleton, C.M. 2012. Exploring the relationship between trade and natural products, cash income and livelihoods in tropical forest regions of Eastern India. *International Forestry Review*, 14: 62-73.

Pandey, A.K. & Shackleton, C.M. 2012. The effect of harvesting approaches, fruit yield, embelin concentration and regrowth dynamics of a forest shrub, *Embelia tsjeriam-cottam* in central India. *Forest Ecology & Management*, 266: 180-186.

Rodela, R., Georgina, C. & Wals, A.E.J. 2012. An analysis of the methodological underpinnings of social learning in natural resource management. *Ecological Economics*, 77: 16-26.

Shackleton, C.M. 2012. Is there no urban forestry or greening in the developing world? *Scientific Research & Essays*, 7(40): 3329-3335.

Shackleton, S.E. & Shackleton, C.M. 2012. Linking poverty, HIV/AIDS and climate change to human and ecosystem vulnerability in southern Africa: consequences for livelihoods and sustainable ecosystem management. *International Journal of Sustainable Development & World Ecology*, 19(3): 275-286.

Thondhlana, G., Vedeld, P. & Shackleton, S. 2012. Natural resource use, income and dependence among San and Mier communities bordering Kgalagadi Transfrontier Park, southern Kahlari, South Africa. *International Journal of Sustainable Development & World Ecology*, 19(5): 1-11.

BOOK CONTRIBUTIONS (3)

Shackleton, S. 2012. (Book Review). Prickly Pear: the social history of a plant in the Eastern Cape. By William Beinhart & Luvuyo Wotshela. *African Journal of Range & Forage Science*, 29 (3):157–158.

Rodela, R., Cundill, G. and Wals, A. 2012. A reflection on research design and methodologies used by the social learning literature. In Lotz-Sisitka, H (Ed). *(Re) Views on Social Learning Literature: A monograph for social learning researchers in natural resources management and environmental education*. Grahamstown: Environmental Learning Research Centre, Rhodes University / EEASA / SADC REEP (ISBN: 978-1-919991-81-8)

Cundill, G. and Rodela, R. 2012. A search for coherence: Social learning in natural resource management. In Lotz-Sisitka, H (Ed). *(Re) Views on Social Learning Literature: A monograph for social learning researchers in natural resources management and environmental education*. Grahamstown: Environmental Learning Research Centre, Rhodes University / EEASA / SADC REEP (ISBN: 978-1-919991-81-8)

POLICY BRIEFS AND POPULAR ARTICLES (7)

Cundill, G 2012. *Learning is fundamental to our capacity to cope with future social-ecological change. But how do we stimulate the 'right' kind of learning, and how will we know if we succeed or fail?* Sustainable learning Centre, online: <http://sustainable-learning.org/category/blog/>

Gambiza, J., Shackleton, C.M., Davenport, N., Atkinson, D., Hoffman, M.T., Martens, C., Puttick, J. & de Groot, W. 2012. Municipal commonage: an undervalued national resource. Policy Brief 7, Dept of Environmental Science, Rhodes University, Grahamstown. 6 pp.

Shackleton, C.M. 2012. Extension needs to be more about livelihoods. *Phuhlisani Extension Opinion No. 8*. Online: www.extensionpolicy.za.net.

Shackleton, S. & Paumgarten, F. 2012. Opportunities for enhancing poor women's socio-economic empowerment in the value chains of three African dry forest non-timber forest products. In *Mainstreaming gender into the COBAM Project*, fact sheet produced by CIFOR.

Shackleton, S., Paumgarten, F., Kassa, H., Husselman, M., Zida, M., Purnomo, H., Irawati, R.H., Fauzan, A.U. & Melati. 2012. Forests: gender and value chains. *Infobrief*, 49: 1-6.

Ward, C. 2012. Promoting Queenstown food gardens. *The Representative*, Friday March 23rd.

CONFERENCE PRESENTATIONS (12)

Clarke C. (2012). Coping and Adaptation Strategies of Vulnerable Rural Households in response to Multiple Stressors (Climate Change and HIV/AIDS), and using natural resources as a safety-net, 1st National Global Change Conference. 26 - 28 November. Birchwood Hotel, Boksburg, South Africa.

(Poster presentation).

Cundill, G., Thondhlana, G., Sisitka, L., Blore, M. and Shackleton, S. (2012). Land claims and the unquestioned pursuit of co-management on protected areas in South Africa. Old land - New Practice? The changing face of land and conservation in postcolonial Africa. 11 - 14th September, Rhodes University, Grahamstown, South Africa. (Paper).

Cundill, G., Shackleton, S.E., Lotz-Sisitka, H. (2012). Community led social learning innovation model for adaptation to climate change. 4th International Ecosummit. Ecological Sustainability: Restoring the Planet's Ecosystem Services. 30 September - 5 October. Columbus, Ohio, USA. (Poster).

Cundill, G. 2012 - Invited panel discussant: The implications of complexity thinking for South Africa. Complexity Forum, Stellenbosch, South Africa, October.

Cundill, G. 2012 - Toward reflexively tracking change in complex systems. Poster presentation at the Complexity Forum, Stellenbosch, South Africa, October.

Gambiza, J. & Shackleton, C.M. 2012. Seedling survival and nurse plants of *Aloe ferox*. (Paper). Annual Thicket Forum conference, 10-12th Sept, Grahamstown (South Africa).

Hamer, N. & Cundill, G. (2012). Community led social learning innovation model for adaptation to climate change, 1st National Global Change Conference. 26 - 28 November. Birchwood Hotel, Boksburg, South Africa. (Oral presentation).

Munro, S. 2012. Local Ecological Knowledge of *Portulacaria afra* amongst commercial farmers in the Sundays River Valley. Presentation, Thicket Forum, Grahamstown, 10-12th Sept.

Petra Tschakert, Bettina Koelle, Margaret Alston, Susannah Sallu, Gina Ziervogel, Sheona Shackleton (2012). Limits to adaptation. Climate Adaptation Futures: Second International Climate Change Adaptation Conference. May 29 - May 31. University of Arizona, Tuscon, Arizona, USA. (Paper)

Pool, J.R., Ripley, B.S. & Powell, M. 2012. The carbon content of *Portulacaria afra* (L.) Jacq. *South African Journal of Botany*, 79: 173-240. (Conference Abstracts from the 38th Annual Congress of the South African Association of Botanists, University of Pretoria, 15-18 Jan 2012).

Shackleton, C.M. & Shackleton, S.E. 2012. Natural resource richness mitigates against income poverty and livelihood vulnerability. (Paper). International conference on Strategies to overcome poverty and inequality: Towards Carnegie3. 3-7 Sept, Cape Town (South Africa).

Shackleton, S.E. and Cobbin, L. (2012). Who is most vulnerable to climate change in the Eastern Cape and why? First National Conference on Global Change. Birchwood Hotel, Boksburg, 26-28 November 2012. Organised by DST, NRF and DEA, South Africa.

RESEARCH REPORTS ()