

The University of British Columbia

Publications Record

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30 October 2017

A. PUBLICATIONS OR ORIGINAL WORKS (published or forthcoming)

1. ARTICLES IN REFEREED JOURNALS OR OTHERWISE SUBJECTED TO PEER REVIEW (Single-authored by W.E. Rees unless otherwise indicated)

2014 “The Shoe Fits, but the Footprint is Larger than Earth” (with M. Wackernagel). *PLoS Biol* 11(11): e1001701. doi:10.1371/journal.pbio.1001701.

2013 “Ecological Footprint, Concept of.” In: Levin S.A. (ed.) *Encyclopedia of Biodiversity*, second edition, Vol. 2: 701-713. Waltham, MA: Academic Press.

Legg, R., Moore, J., Kissinger, M., Rees, W.E. “A greenhouse gas emissions inventory and ecological footprint analysis of Metro Vancouver residents’ air travel.” *Environment and Pollution* 2 (4) 123-134.

Moore, J., M. Kissinger, W.E. Rees. “An Urban Metabolism and Ecological Footprint Assessment of Metro Vancouver”. *Journal of Environmental Management*, 124 (2013): 51-61.

Kissinger, M., C. Sussman, J. Moore, W.E. Rees. “Accounting for the ecological footprint of materials in consumer goods.” *Sustainability* 5 (5): 1960-1973. <http://www.mdpi.com/2071-1050/5/5/1960>.

Kissinger, M., C. Sussman, J. Moore, W.E. Rees. “Accounting for greenhouse gas emissions of materials at the urban scale—Relating existing process life cycle assessment studies to urban material and waste composition.” *Low Carbon Economy*, 4(1): 36-44.

2011-12 “Closing the Loop: Reducing Greenhouse Gas Emissions and Creating Green Jobs Through Zero Waste in BC”. (Rees is one of several authors). Canadian Centre for Policy Alternatives.

Timmer, V., W.E. Rees, E. Prinet, D. Timmer, & A. Moore. “Do sustainable lifestyle experiments actually reduce footprints? Defining elements of a monitoring protocol,” *Sustainability: Science, Practice and Policy* (under review).

- Kissinger, M., Rees, W.E. and Timmer, V. “Interregional Sustainability: Governance and Policy in an Ecologically Interdependent World.” *Environmental Science and Policy* 14 (8), 965-976.
- Kissinger, M., Timmer V. and Rees, W.E. “Interregional Interdependence: Framework and Policy Prescriptions for Sustainability.” In Westra, L., Bosselmann, K., and Soskolne, C (EDs.). *Globalization and Ecological Integrity in Science and International Law*. 255-271. Cambridge Scholars Publishing).
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- Kissinger, M. & W.E. Rees. “An interregional ecological approach for modelling sustainability in a globalizing world—Reviewing existing approaches and emerging directions.” *Ecological Modelling* 221(21):2615-2623.
- “True Cost Economics”. Chapter in the *Berkshire Encyclopedia of Sustainability*, Vol 2, *The Business of Sustainability*. C. Lazlo *et al.* eds. Berkshire Publishing Group.
- 2009 Kissinger, M & W.E. Rees. “Footprints on the Prairies: Degradation and Sustainability of Canadian Agriculture in a Globalizing world.” *Ecological Economics* 68: 2309–2315.
- Kissinger, M, & W.E. Rees. Exporting natural capital: the foreign eco-footprint on Costa Rica and implications for sustainability. *Environment, Development and Sustainability*. DOI 10.1007/s10668-009-9210-7
- Kissinger, M. & W.E. Rees. “Quantifying Sustainability in a Globalizing world – Toward an Interregional Ecology.” *Journal of Industrial Ecology* 13 (3) 357-360.
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- 2006 “Global Change, Urban Sustainability and the Vulnerability of Cities: An Eco-Footprint Perspective” (in Chinese, Bai Jin-peng, translator). Seeking Truth (Quishi Xuekan) 33(4): 51-57.
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- 2005 McGranahan, G., P. Marcotullio et al., including W.E. Rees as one of several lead authors. “Urban Systems.” Chapter 27 in H. Rashid, R. Scholes and N. Ash (eds), Ecosystems and Human Well-Being, Volume 1: Current State and Trends, pp. 795-825. Millennium Ecosystem Project.
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- “Ecological Integrity and Material Growth: Irreconcilable Conflict?” Journal of Business Administration (also published as book chapter — see below).
- “Globalization and Sustainability: Conflict or Convergence?” Bulletin of Science, Technology and Society 22 (4): 249-268.
- “An Ecological Economics Perspective on Sustainability and Prospects for Ending Poverty.” Population and Environment 24 (1) 15-46.

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- 1992 “Ecological Footprints and Appropriated Carrying Capacity: What Urban Economics Leaves Out.” Environment and Urbanization 4:2:121-130.
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(Reprinted in part as: “Consuming our Ecological Capital.” Social Inventions [Journal of the Institute of Social Inventions] 19:14-16 [1990] London: ISI Publications, and; “Towards an Ecological Economics.” Cover article in: Greenletter 3-4, 16-17 [Winter 1989]. San Francisco: Greener Times.)
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“Sustainable Development as Capitalism with a Green Face.” A review article focusing on Blueprint for a Green Economy (1989), by David Pearce, Anil Markandya, and Edward B. Barbier. London: Earthscan Publications Ltd.) Town Planning Review.
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“Defining ‘Sustainable Development.’” CHS Research Bulletin, May 1989, 7 pp. Vancouver: University of BC Centre for Human Settlements. (Originally published as a background paper for the symposium on Planning for Sustainable Development. Vancouver: University of BC School of Community and Regional Planning, November 25-27, 1988.)

- 1988 “A Role for Impact Assessment in Achieving Sustainable Development.” Environmental Impact Assessment Review, 8:273-291.
“Sustainable Development: Economic Myths and Ecological Realities,” Trumpeter 5:4:133-138.
- 1986 “The Genesis and Structure of the 'Dene Gondie' Study.” Canadian Journal of Native Studies 6:1:141-157.
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- 1982 “Planning Our Arctic Frontier: Setting the Stage.” Plan Canada 21:4: 107-116.
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“Puya raimondii (Pitcairnioideae, Bromeliaceae) and Birds: An Hypothesis on Nutrient Relationships” (first author with N.A. Roe). Canadian Journal of Botany 58:1262-1268.
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- 1979 “Notes on the Puna Avifauna of Azangaro Province, Dept. of Puno, Southern Peru” (co-author with N.A. Roe). Auk 96:475-482.
“Bird Communities and the Structure of Urban Habitats” (first author with R.K. Lancaster). Canadian Journal of Zoology 57:2358-2368.
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“Reflections on the Environmental Assessment and Review Process: A Discussion Paper.” CARC Working Paper #1 (ISSN 0226-3416). Ottawa: Canadian Arctic Resources Committee, 38 pp.
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2. MISCELLANEOUS PUBLISHED ARTICLES & REPORTS (Single-authored unless otherwise indicated)
- 2017 “What, Me Worry? Humans Are Blind to Imminent Environmental Collapse”, in The Tyee, available at <https://thetyee.ca/Opinion/2017/11/16/humans-blind-imminent-environmental-collapse/> (16 November 2017)
“Staving off the coming global collapse”, in The Tyee, available at <https://thetyee.ca/Opinion/2017/07/17/Coming-Global-Collapse/> (17 July 2017)
- 2012 “The Way Forward: Survival 2011.” Solutions 3: 3: 32-36 (May-June 2012)
- 2011 “Big Picture: The Jekyll and Hyde of Resilience.” Chapter One in: Resiliency: Cool Ideas for Locally Elected Leaders. Going for Green Leadership Series, Vol 5. Vancouver: Centre for Civic Governance (pp. 7-20) .
- 2009 “Are Humans Unsustainable by Nature?” The 2009 Trudeau Foundation Papers, Vol I, pp. 81-103. Montreal: Pierre Elliott Trudeau Foundation.
“Is Canada Criminally Negligent on Climate Policy?” in The Tyee, available at: <http://thetyee.ca/Opinion/2009/12/02/CanadaEnvironmentCriminal/> (2 December 2009)
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- 2008 “Science, Cognition and Public Policy.” Academic Matters April/May pp.9-12
“Let’s Get Serious about (Un)Sustainability (Or is it already too late?). Natural Resources and Environmental Studies Institute Occasional Papers Series No. 2,

- University of Northern British Columbia, Prince George, BC, Canada. Available at http://www.unbc.ca/assets/nres/nres_op_02_rees_2008.pdf
- “Are We Smart Enough to be Sustainable?” Alive (June 2008)
- “Step Lightly on the Planet: Footprinting Sustainability.” Alive (April 2008) pp. 46-48.
- “BC’s Carbon Tax Shell Game.” The Tyee, 28 February, 2008. Available with running comments at <http://thetyee.ca/Views/2008/02/26/TaxShellGame/>
- 2007 “Deluding Ourselves: What we need is a good dose of realism.” Alternatives (Measuring Progress and Building Heritage) 33(2/3): 45-46.
- “Big Feet, Small Planet” Independent Times (March 2007)
- 2006 “The Human Nature of Unsustainability.” EcoGuide, Edmonton, AB. (November 2006.)
- “The Myth of the Sustainable City (How sustainable are the world’s cities?)” Briarpatch 35 (4):10-13
- “Eco-Footprints to Sustainability,” UBC Reports, University of BC, Vancouver, 6 April 2006.
- 2005 “Don’t Confuse Livability with Sustainability,” Georgia Straight, Vancouver. November 2005.
- 2004 “Ecological Footprint and Carrying Capacity” (in English and Spanish). Exhibition Catalogue, *Habitar el Mundo/Inhabiting the World*. Inhabiting the World, Forum Barcelona, Barcelona Spain, pp. 116-217.
- “Ephiphany, Serendipity and the Genesis of Ecological Footprint Analysis”. Chimera 4 (19) 98-101 (University College Cork Geography Journal).
- “Why We Should Pay More for Gas.” The Land Report 78: 12-17 (Spring 2004), and
- “You Get What You Pay For: Energy Supply and Pricing for a Sustainable Future.” Canadian Chemical News,” April 2004, pp. 12-14.
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- 2003 “A blot on the land” (editor’s title). Nature 421, 898 (27 Feb 2003, Invited “Concepts” essay on ecological footprints and sustainability).
- “The End of the Fossil-Fuel Era Not Far Off: We need an energy supply and pricing policy that’s sustainable.” CCPA Monitor (Canadian Centre for Policy Alternatives) June 2003.
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- “Squeezing the Poor” (originally titled: President Castro Had a Point) Toronto Star, OpEd article 22 April, 2002.

- 2000 “Mything Out on Sustainability”. Encompass (December 2000).
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- 1999 “Eco-Footprints and Eco-Logical Design: Toward Urban Sustainability”. One page ‘box’ for book on Eco-Logical Urban Design (forthcoming, 2000).
“Life in the Lap of Luxury as Ecosystems Collapse”. Chronicle of Higher Education, 30 July 1999.
Several side-bars and ‘boxes’ for special 25 year commemorative re-issue of E. F. Schumacher’s Small is Beautiful (Sharon McCann, Coordinating Editor) Ashland, OR: Hartley and Marks Publishers.
- 1998 “The Gluttonous City.” Viewpoint article in Habitat Debate 4:1:31 (United Nations Centre for Human Settlements).
- 1997 “Why Urban Agriculture?” Opening Address, special IDRC symposium on: Cities Feeding People - A Growth Industry. Vancouver, BC, 20 May 1997. Published on website of “City Farmer: Canada’s Office of Urban Agriculture: <http://www.cityfarmer.org>
“Let’s Just Assume We’re Sustainable.” Dollars and Sense (May-June 1997: 38-39).
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- 1996 “Ecological Footprints.” YES! A Journal of Positive Futures (formerly In Context) 1:26-27 (Reprint of *Ecological Footprints and the Prospects for Sustainability*. NorthWest Report [Spring 1996]).
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“The Footprints of Consumption: Tracking Ecospheric Decline.” Bioline 14:2:15-16.
- 1995 “Reducing our Ecological Footprints.” Siemens Review 62:2:30-35. (Also translated and republished in the Chinese language edition, Spring 1966)
“The Ecological Footprint of Japan: Assessing Japan’s Potential Contribution to Global Sustainability.” (In Japanese, with Y. Wada and M. Wackernagel). Population and Development 52:2-19 (a Japanese language Journal)
“Ecological Footprints of the Future” (editors’s title). People and the Planet (Special Habitat II issue) 5: 2: 6-8.
- 1994 “Ökologische Fussspuren und angeeignete Tragfähigkeit: Was die städtische Ökonomie ausser acht lässt.” Politikinitiativen 7:34-68. Zürich: ADAG. (German translation of “Ecological Footprints and Appropriated Carrying Capacity: What Urban Economics Leaves Out,” originally published in Environment and Urbanization 4:2:121-130 [1992]).
- 1992 “Understanding Sustainability.” In: B. Hamm, G. Zimmer and S.Kratz (ed.), Sustainable Development and the Future of Cities (Proceedings of an International

- Seminar, Bauhaus Dessau, Germany, 7-14 August 1991) Trier: University of Trier, Centre for European Studies.
- “Sustainable Communities” (with M. Roseland). In: B. Hamm, G. Zimmer and S. Kratz (ed.), Sustainable Development and the Future of Cities (Proceedings of an International Seminar, Bauhaus Dessau, Germany, 7-14 August 1991) Trier: University of Trier, Centre for European Studies. (Reprinted from “Sustainable Communities: Planning for the 21st Century,” Plan Canada 31:3:15-25 [1991]).
- 1990 “Maintaining the Land to Protect Ourselves.” Inside Guide 4:6:48-49 (Winter 1990).
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- 1989 “Your Pick: Where do you sit in the spectrum of positions on the concept of sustainable development?” (editor's title). Forest Planning Canada 5:3:7-8.
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- 1980 “Canada, Clark Kent of Nations.” Lead “Page Five” article, Vancouver Sun p.A5, 24 July 1980.
- 1977 The Canada Land Inventory in Perspective. C.L.I. Report #12, 40 pp. Ottawa: Lands Directorate, Fisheries and Environment Canada (Also available in French.)
- 1975 The Carrying Capacity of Recreational Lands: A Review (second author with K. Verburg). Occasional Paper No. 1, Parks Canada, Prairie Region.
- 1974 “The Control of Growth: A Gaming Exploration” (co-author with M. Seelig and D. Webster). Urban Planning Quarterly 1:1:33-38.
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- The Canada Land Inventory: A Conceptual Framework for Regional Land Use Planning. Papers on Local Government, 1:7, 15 pp. Vancouver: University of BC Centre for Continuing Education.

- “The Third Crossing Fiasco” (first author with J. Lehrman). The Canadian Architect 17:56-57, 72.
3. BOOK CHAPTERS (Single-authored by W.E. Rees unless otherwise indicated; ® signifies peer review)
- 2018 “Planning in the Anthropocene”, Chapter 5 in: M Gunder, A Madinipour and V Watson (eds), The Routledge Handbook of Planning Theory. New York: Routledge. ®
- 2017 “The Roots of Our Crises: Does Human Nature Drive Us Toward Collapse?” Chapter 6 in: D Lerch (ed), The Community Resilience Reader. Washington, Island Press (for the Post Carbon Institute.) ®
- “Going Down? Human Nature, Growth and (Un)sustainability,” Chapter 22 in: PA Victor, B Dolter (eds), Handbook on Growth and Sustainability. Cheltenham, UK: Edward Elgar.
- 2016 “Ecological Footprint Analysis: Assessing Urban Sustainability, Chapter 6 in: P Laconte and C Gossop (eds), Sustainable Cities – Assessing the Performance and Practice of Urban Environments. London & New York: IB Tauris. ®
- “Denying Herman Daly: why conventional economists will not embrace the Daly vision, Chapter 7 in: J Farley and D Malghan (eds), Beyond Uneconomic Growth. Cheltenham, UK: Edward Elgar.
- “North American Soils and World Food”, chapter in: H Ginsky *et al.*, (eds) International Yearbook of Soil Law and Policy. Cham, Switzerland: Springer International (pp. 21-30). ®
- 2013 “Carrying Capacity, Globalisation, and the Unsustainable Entanglement of Nations.” In: P Lawn (ed), Globalisation, Economic Transition And The Environment—Forging a Path to Sustainable Development. London, Edward Elgar.
- “Ecological Footprints, Fair Earth-Shares and Urbanization” (with J. Moore). Chapter One in: R. Vale and B. Vale (eds), Living withing a Fair Share Ecological Footprint. London, Earthscan.®
- “Getting to One Planet Living” (with J. Moore). Chapter 4 in: State of the World 2013 – Is Sustainability Still Possible? Washington, World Watch Institute. ®
- 2012 “Cities as Dissipative Structures: Global Change and the Vulnerability of Urban Civilization”. Chapter in: Weinstein MP, Turner RE (eds). Sustainability science: the emerging paradigm and the urban environment. Springer, New York (2012) ®
- 2011 “Denying Herman Daly: Why Conventional Economics Cannot Embrace the Daly Vision or ‘That’s not the right way to look at it’”. Invited chapter in book to be published in 2011 commemorating the thought of ecological economist, Dr. Herman Daly (forthcoming). ®
- “Interregional Interdependence: Framework and Policy Prescriptions for Sustainability” (with M. Kissinger and V. Timmer. Chapter in L. Westra, ed. Civil

- Society, Governance and Sustainability (working title). Newcastle: Cambridge Scholars Publishing.
- 2010 “Globalization and Extended Eco-footprints: Neo-colonialism and (Un)sustainability.” Chapter 24 in Democracy, Ecological Integrity and International Law. J.R.Engel, L. Westra & K Bosselmann, eds. Newcastle: Cambridge Scholars Publishing.
- “Thinking Resilience.” Chapter 3 in R. Heinberg and D. Lerch, (eds). The Post Carbon Reader: Managing the 21st Century’s Sustainability Crises. University of California Press (for Post Carbon Institute). (Also available at: <http://www.postcarbon.org/Reader/PCReader-Rees-Foundation.pdf>. Accessed 12 Apr 2011)
- “The Human Nature of (Un)sustainability.” Chapter 15 in R. Heinberg and D. Lerch, (eds). The Post Carbon Reader: Managing the 21st Century’s Sustainability Crises. University of California Press (for Post Carbon Institute).
- “Getting Serious about Urban Sustainability: Eco-Footprints and the Vulnerability of 21st Century Cities”. Chapter 5 in Canadian Cities in Transition: New Directions in the 21st Century. T. Bunting, P. Filion and R. Walker, eds. Toronto: Oxford University Press (fully revised edition of the third edition of Canadian Cities in Transition) (in press).
- “Life in the Lap of Luxury as Ecosystems Collapse” The Arlington Reader (3rd Edition) Reprint of Rees, W.E. 1999. “Life in the Lap of Luxury as Ecosystems Collapse”. Chronicle of Higher Education, 30 July 1999.
- 2009 “Degradation and the Arrow of Time.” Invited context essay for, Oil, by Edward Burtynsky. Göttingen: Steidl.
- 2008 “Confounding Integrity: Humanity as Dissipative Structure” Chapter 17 in L.Westra, et al., eds. Reconciling Human Existence with Ecological Integrity (pp. 293-302). London: Earthscan®
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- 1980 “A Proposal for a Beaufort Sea Regional Planning Commission”. Discussion paper prepared for the Committee for Original Peoples Entitlement (COPE), Inuvik, N.W.T. 14 pp.

- 1977 “Agriculture and Uncertainty: Keeping the Options Open” (with H.C. Davis). Land use policy report prepared for Greater Vancouver Regional District. 29 pp.
The Management of Coastal Resources in British Columbia (contributing author to several chapters), Vol. I, 51 pp.; Vol. II, 126 pp. Coastal Zone Resource Subcommittee.
- Three Lectures on Ecology for Planners. Prepared for an on-going course on “Site Planning for Land Surveyors.” Vancouver: UBC School of Community and Regional Planning and Centre for Continuing Education. 50 pp.
- 1973 The Gulf Island Recreation Study: Final Status Report (second author with K. Verburg). Prepared for H.P. Oberlander (Donner Canadian Foundation), 197 pp. (with tables, figures and appendices).
- 1970 “The Way It Is”. Background paper for Pollution and Ecology Workshop, Quality of Life Task Force, Western Liberal Conference, Edmonton, Alberta, 6-8 June. 5 pp.

C. WORK IN PROGRESS

- Collaborative research and publication continues with Meidad Kissinger (former PhD student) on interregional ecological impacts and policies (originally funded by SSHRC project on interregional sustainability)
- Research and writing continues on the future sustainability and vulnerability of cities (funded by SSHRC project on ‘getting serious about urban sustainability’) particularly with PhD student, Jennie Moore.
- Research is on-going for academic publications and project reports flowing from various global change/climate change projects