# Literature for MESS23, Environmental Studies and Sustainability Science: Geographies of Sustainability applies from spring semester 2023

**Literature established by The Board of the Lund University Centre for Sustainability Studies on 2022-12-15 to apply from 2023-01-16**

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See appendix.

LUND UNIVERSITY

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# Miljö- och hållbarhetsvetenskap: Hållbarhetens geografi, 7,5 högskolepoäng

*Environmental Studies and Sustainability Science: Geographies of Sustainability, 7.5 credits*

MESS23 litteraturlista fastställd av LUCSUS styrelse den 15 december 2022.

Adger, W. N., & Brown, K. (2009). Vulnerability and resilience to environmental change: ecological and social perspectives. In Castree, N., Demeritt, D., Liverman, D., & Rhoads, B. (Eds.), *A companion to environmental geography* (pp. 109-122). John Wiley & Sons. (13 pages)

Agnew, J. (2011). "Space and place". In: Agnew, J. A. & Livingstone, D. N. (eds), *The Sage handbook of geographical knowledge*, London: Sage Press, 316-331. (16 pages)

Aitken, S. and Valentine, G. (2006) Ways of Knowing and Ways of Doing Geographic Research. In: *Approaches to Human Geography*. Chapter 1, 1-12 (12 pages)

Anthias, P. (2019) Ambivalent cartographies: Exploring the legacies of indigenous land titling through participatory mapping. *Critique of Anthropology*, 39(2), 222-242. (21 pages)

Bai, X., McPhearson, T., Cleugh, H., Nagendra, H., Tong, X., Zhu, T., & Zhu, Y. G. (2017). Linking urbanization and the environment: Conceptual and empirical advances. *Annual review of environment and resources*, *42*(1), 215-240. (26 pages)

Barnett, J. (2020). Global environmental change II: Political economies of vulnerability to climate change. *Progress in Human Geography*, *44*(6), 1172–1184. (13 pages)

Brenner, N. (2012). What is critical urban theory?. In: Brenner, N., Marcuse, P., & Mayer, M. (eds.), *Cities For People, Not For Profit* (pp. 11-23). Routledge. (13 pages)

Brenner, N., Marcuse, P., & Mayer, M. (2012). Cities For People, Not For Profit: An Introduction. In: Brenner, N., Marcuse, P., & Mayer, M. (eds.), *Cities For People, Not For Profit* (pp. 1-10). Routledge. (10 pages)

Bridge and Wyeth (2020) Natural Resources. In: *International Encylopedia of Human Geography*. (10 pages)

Bulkeley, H. (2005) Reconfiguring environmental governance: Towards a politics of scales and networks. *Political Geography*, 24(8), 875-902. (27 pages)

Cadenasso, M. L., Pickett, S. T. A., & Grove, J. M. (2006). Dimensions of ecosystem complexity: heterogeneity, connectivity, and history. *Ecological complexity*, *3*(1), 1-12. (12 pages)

Castan Broto, V., Baptista, I., Kirshner, J., Smith, S., and Neves Alves, S. (2018) Energy justice and sustainability transitions in Mozambique. *Applied Energy,* 228, 645-655 (11 pages)

Chakraborty, T., Hsu, A., Manya, D., & Sheriff, G. (2019). Disproportionately higher exposure to urban heat in lower-income neighborhoods: a multi-city perspective. *Environmental Research Letters*, *14*(10), 105003. (10 pages)

Cook (2004) Follow the Thing: Papaya. *Antipode*, 36(4), 642-664 (23 pages)

Denice, P., Choi, K. H., Haan, M., & Zajacova, A. (2020). Visualizing the geographic and demographic distribution of COVID-19. *Socius*, *6*, 1-3. (3 pages)

Desai, B., Bresch, D. N., Cazabat, C., Hochrainer-Stigler, S., Mechler, R., Ponserre, S., & Schewe, J. (2021). Addressing the human cost in a changing climate. *Science*, *372*(6548), 1284-1287. (3 pages)

Douglas, I. (2020). Urban hydrology. In *The Routledge Handbook of Urban Ecology* (pp. 164-185). Routledge. (22 pages)

Edmonds, D. A., Caldwell, R. L., Brondizio, E. S., & Siani, S. M. (2020). Coastal flooding will disproportionately impact people on river deltas. *Nature communications*, *11*(1), 1-8. (8 pages)

Ellis, E. C. (2021). Land use and ecological change: A 12,000-year history. *Annual Review of Environment and Resources*, *46*(1), 1-33 (33 pages)

Ferring, D. & Hausermann, H. (2019) The Political Ecology of Landscape Change, Malaria, and Cumulative Vulnerability in Central Ghana's Gold

Mining Country, Annals of the American Association of Geographers, 109:4, 1074-1091 (17 pages)

Foley, J. A., DeFries, R., Asner, G. P., Barford, C., Bonan, G., Carpenter, S. R., ... & Snyder, P. K. (2005). Global consequences of land use. *Science*, *309*(5734), 570-574. (5 pages)

Gao, J., & O'Neill, B. (2021). Different Spatiotemporal Patterns in Global Human Population and Built-Up Land. *Earth's Future*, *9*(8), e2020EF001920. (16 pages)

Gavonel, M. F., Adger, W. N., de Campos, R. S., Boyd, E., Carr, E. R., Fábos, A., ... & Siddiqui, T. (2021). The migration-sustainability paradox: transformations in mobile worlds. *Current Opinion in Environmental Sustainability*, *49*, 98-109. (11 pages)

Gill, J. C., & Malamud, B. D. (2014). Reviewing and visualizing the interactions of natural hazards. *Reviews of Geophysics*, *52*(4), 680-722. (43 pages)

Giosan, L., Syvitski, J., Constantinescu, S., & Day, J. (2014). Climate change: Protect the world's deltas. *Nature*, *516*(7529), 31-33. (3 pages)

Gregson, N. Crang, M., Ahamed, F., Akhter, N., and Ferdous, N. (2010) Following things of rubbish value: End-of-life ships, 'chock-chocky' furniture and the Bangladeshi middle class consumer. *Geoforum*, 41(6), 846-854 (9 pages)

Haasnoot, M., Lawrence, J., & Magnan, A. K. (2021). Pathways to coastal retreat. *Science*, *372*(6548), 1287-1290. (3 pages)

Hay, S. I., Guerra, C. A., Tatem, A. J., Noor, A. M., & Snow, R. W. (2004). The global distribution and population at risk of malaria: past, present, and future. *The Lancet infectious diseases*, *4*(6), 327-336. (10 pages)

Horlings, L.G. (2015) Values in place; A value-oriented approach towards sustainable placeshaping. *Regional Studies* 2 (1) pp. 257–274 (18 pages)

Horton, R. M., de Sherbinin, A., Wrathall, D., & Oppenheimer, M. (2021). Assessing human habitability and migration. *Science*, *372*(6548), 1279-1283. (4 pages)

Huber, M. (2015) Theorising energy geographies. *Geography Compass,* 9(6), 327-338 (12 pages)

Immerzeel, W. W., Lutz, A. F., Andrade, M., Bahl, A., Biemans, H., Bolch, T., S. Hyde, S. Brumby, B. J. Davies, A. C. Elmore, A. Emmer, M. Feng, A. Fernández, U. Haritashya, J. S. Kargel, M. Koppes, P. D. A. Kraaijenbrink, A. V. Kulkarni, P. A. Mayewski, S. Nepal, P. Pacheco, T. H. Painter, F. Pellicciotti, H. Rajaram, S. Rupper, A. Sinisalo, A. B. Shrestha, D. Viviroli, Y. Wada, C. Xiao, T. Yao & Baillie, J. E. M. (2020). Importance and vulnerability of the world's water towers. *Nature*, *577*(7790), 364-369. (6 pages)

Khan, M. R., Huq, S., Risha, A. N., & Alam, S. S. (2021). High-density population and displacement in Bangladesh. *Science*, *372*(6548), 1290-1293. (4 pages)

Lasilla (2018) Mapping mineral resources in a living land: Sami mining resistance in Ohcejohka, northern Finland. *Geoforum*, 96, 1-9 (9 pages)

Lerner-Lam, A. (2007). Assessing global exposure to natural hazards: Progress and future trends. *Environmental Hazards*, *7*(1), 10-19. (10 pages)

Liu, J. (2017). Integration across a metacoupled world. *Ecology and Society*, *22*(4). (19 pages)

Mahadevia, D.; Bhatia, N.; Bhatt, B. (2018). Private Sector in Affordable Housing? Case of Slum Rehabilitation Scheme in Ahmedabad, India. *Environment and Urbanization ASIA, 2018*, *9*, 1–17. (17 pages)

Manson, S. M. (2008). Does scale exist? An epistemological scale continuum for complex human–environment systems. *Geoforum*, 39(2), 776-788. (13 pages)

Marston, S.A., Jones J.P. & Woodward, K. (2005) Human Geography without scale. *Transactions of the Institute of British Geographers, 30*(4), 416-432. (17 pages)

Martín-López, B., Palomo, I., García-Llorente, M., Iniesta-Arandia, I., Castro, A. J., Del Amo, D. G., Gómez-Baggethun, E. & Montes, C. (2017). Delineating boundaries of social-ecological systems for landscape planning: A comprehensive spatial approach. *Land use policy*, *66*, 90-104. (15 pages)

Massey, D. (2002). Globalisation: What does it mean for geography?. *Geography*, 293-296. (4 pages)

Mitchell, B. & Franco, J. (2018). HOLC “redlining” maps: the persistent structure of segregation and economic inequality. Washington DC: NCRC. (19 pages)

Moss, R. H., Reed, P. M., Hadjimichael, A., & Rozenberg, J. (2021). Planned relocation: Pluralistic and integrated science and governance. *Science*, *372*(6548), 1276-1279. (3 pages)

Nastar, M. (2020). Message sent, now what? A critical analysis of the heat action plan in Ahmedabad, India. *Urban Science*, *4*(4), 53. (16 pages)

Naumann, M., & Rudolph, D. (2020). Conceptualizing rural energy transitions: Energizing rural studies, ruralizing energy research. *Journal of Rural Studies*, 73, 97-104. (7 pages)

Nicholls, R. J., & Cazenave, A. (2010). Sea-level rise and its impact on coastal zones. *Science*, *328*(5985), 1517-1520. (3 pages)

Nicholls, R. J., Lincke, D., Hinkel, J., Brown, S., Vafeidis, A. T., Meyssignac, B., Hanson, S.E., Merkens, J.L., & Fang, J. (2021). A global

analysis of subsidence, relative sea-level change and coastal flood exposure. *Nature Climate Change*, *11*(4), 338-342. (5 pages)

Olsson, L., & Jerneck, A. (2018). Social fields and natural systems. *Ecology and Society*, *23*(3). (18 pages)

Otto, F. E. (2017). Attribution of weather and climate events. *Annual Review of Environment and Resources*, *42*, 627-646. (20 pp)

Peng, S., Piao, S., Ciais, P., Friedlingstein, P., Ottle, C., Bréon, F. M., Nan, H., & Myneni, R. B. (2012). Surface urban heat island across 419 global big cities. *Environmental science & technology*, *46*(2), 696-703. (7 pages)

Robinson, C., MacLean, K., Hill, R., Bock, E., and Rist, P. (2015) Participatory mapping to negotiate indigenous knowledge used to assess environmental risk. *Sustainability Science*, 11, 115-126 (12 pages)

Sayre, N. (2009). "Scale". In: Castree, N., Demeritt, D., Liverman, D., & Rhoads, B., (eds), *Companion to environmental geography*, Oxford: Blackwell, 95-108. (14 pages)

Scott, R. (2007) Dependent Masculinity and Political Culture in Pro-Mountaintop Removal Discourse: Or, How I Learned to Stop Worrying and Love the Dragline. *Feminist Studies,* 33(3), 484-509 (26 pages)

Scown, M. W. (2020). The sustainable development goals need geoscience. *Nature Geoscience*, *13*(11), 714-715. (2 pages)

Scown, M. W., Brady, M. V., & Nicholas, K. A. (2020). Billions in misspent EU agricultural subsidies could support the sustainable development goals. *One Earth*, *3*(2), 237-250. (14 pages)

Scown, M. W., Chaffin, B. C., Triyanti, A., & Boyd, E. (2022). A harmonized country-level dataset to support the global stocktake regarding loss and damage from climate change. *Geoscience Data Journal*. 1-13. (13 pp + 16 pp Supplement)

Scown, M. W., Dunn, F. E., Dekker, S. C., van Vuuren, D. P., Minderhoud, P. S. J., Karabil, S., Sutanudjaja, E. H., Santos, M. J., Garmestani, A., & Middelkoop, H. (under review). Global change scenarios in coastal river deltas and their sustainable development implications. Available at SSRN: https://ssrn.com/abstract=4216537 (19 pages)

Scown, M. W., McManus, M. G., Carson Jr, J. H., & Nietch, C. T. (2017). Improving predictive models of in-stream phosphorus concentration based on nationally-available spatial data coverages. *JAWRA Journal of the American Water Resources Association*, *53*(4), 944-960. (17 pages)

Siders A. R. & Mach, K. (2012). 'Managed retreat' done right can reinvent cities so they're better for everyone – and avoid harm from flooding, heat and fires. *The Conversation*, June 21, 2021. https://theconversation.com/managed-retreat-done-right-can-reinvent-cities-

so-theyre-better-for-everyone-and-avoid-harm-from-flooding-heat-and-fires-163052 (1 pages)

Simon, D. (2008). Urban environments: issues on the peri-urban fringe. *Annual review of environment and resources, 33,* 167-185. (18 pages)

Syvitski, J. P., Kettner, A. J., Overeem, I., Hutton, E. W., Hannon, M. T., Brakenridge, G. R., J. Day, C. Vörösmarty, Y. Saito, L. Giosan, & Nicholls, R. J. (2009). Sinking deltas due to human activities. *Nature Geoscience*, *2*(10), 681-686. (6 pages)

Szabo, S., Nicholls, R. J., Neumann, B., Renaud, F. G., Matthews, Z., Sebesvari, Z., A. AghaKouchak, R. Bales, C. Warren Ruktanonchai, J. Kloos, E. Foufoula-Georgiou, P. Wester, M. New, J. Rhyner, & Hutton, C. (2016). Making SDGs work for climate change hotspots. *Environment: Science and Policy for Sustainable Development*, *58*(6), 24-33. (9 pages)

Thomas, A., Baptiste, A., Martyr-Koller, R., Pringle, P., & Rhiney, K. (2020). Climate change and small island developing states. *Annual Review of Environment and Resources*, *45*(6), 1-27. (27 pages)

Thomas, K., Hardy, R. D., Lazrus, H., Mendez, M., Orlove, B., Rivera-Collazo, I., ... & Winthrop, R. (2019). Explaining differential vulnerability to climate change: A social science review. *Wiley Interdisciplinary Reviews: Climate Change*, *10*(2), e565. (18 pages)

The History of Geography with Michiel van Meeteren (podcast - 32 minutes) https://poddtoppen.se/podcast/1616415539/the-geography-of-everything/1-the-history-of-geography-with-michiel-van-meeteren

Turner, B. L. & Robbins, P. (2008). Land-change science and political ecology: Similarities, differences, and implications for sustainability science. *Annual review of environment and resources*, *33*, 295-316. (20 pages)

Van Veelen, B. and Hagget, C. (2017) Uncommon Ground: The Role of Different Place Attachments in Explaining Community Renewable Energy Projects. *Sociologia Ruralis*, *57*, 533-554. https://onlinelibrary.wiley.com/doi/pdf/10.1111/soru.12128 (22 pages)

Vorkinn, M. and Riese, H. (2001) Environmental concern in a local context: the significance of place attachment. *Environment and Behavior* 33 (2) pp. 249–263 (15 pages)

Vörösmarty, C. J., McIntyre, P. B., Gessner, M. O., Dudgeon, D., Prusevich, A., Green, P., Glidden, S., Bunn, S.E., Sullivan, C.A., Liermann, C.R., & Davies, P. M. (2010). Global threats to human water security and river biodiversity. *Nature, 467*(7315), 555-561. (7 pages)

Woodward, F. I., Lomas, M. R., & Kelly, C. K. (2004). Global climate and the distribution of plant biomes. *Philosophical Transactions of the Royal*

*Society of London. Series B: Biological Sciences*, *359*(1450), 1465-1476. (12 pages)

Wu, J. (2013). "Hierarchy theory: an overview". In: Rozzi, R., Pickett, S. T., Palmer, C., Armesto, J. J., & Callicott, J. B. (eds), *Linking ecology and ethics for a changing world*, New York: Springer, 281-301. (21 pages)

*Optional Multimedia*

ABC (2022). Can Arctic Sámi Parliaments Defend Their Way of Life from Green Developments, Foreign Correspondent 20 October, 2022. https://www.youtube.com/watch?v=lMXIS5SlIv4&list=PLDTPrMoGHssCGGf2WHDMjJJccd4txfN3j&index=2 (30 minute video)

ABC (2022). Blood Cobalt: The Congo's Dangerous and Deadly Green Energy Mines, Foreign Correspondent 24 February, 2022. https://www.youtube.com/watch?v=_V3bIzNX4co&list=PLDTPrMoGHssCGGf2WHDMjJJccd4txfN3j&index=26 (30 minute video)

Wonderling, R., & Burks-Rentschler, S. (2022) *Redlining: Mapping Inequality in Dayton and Springfield.* https://thinktv.org/redlining/. Documentary (52 minutes)

*Assignment Readings*

In addition to the compulsory readings, students are expected to read approximately 120 pages across their two assignments. For Assignment 1, groups should read approximately 100 pages on their allocated field topic (ca. 20 pages per group member); suggestions are given below for each topic but students are encouraged to search and find their own readings. For Assignment 2, students should individually read approximately 100 pages; no suggestions are given and students should search and find their own readings on their case.

**Assignment 1 suggested starting points**

*Weathering*

Holden, J. (2011) Techtonics, Weathering, Erosion, and Soils. In: *Physical Geography: The Basics*. Routledge, Milton Park UK, 52-77. (25 pages)

Bland, W. and Rolls, D. (1998). Mechanical weathering processes. In: *Weathering: An Introduction to the Scientific Principles*. Arnold, UK, 85-114. (30 pages)

*Erosion*

Holden, J. (2011) Techtonics, Weathering, Erosion, and Soils. In: *Physical Geography: The Basics*. Routledge, Milton Park UK, 52-77. (25 pages)

Zhu, T. And Xu, X. (2021). Gully Erosion. In: *Watershed Erosion Processes*. Springer, Cham, 41-67. (28 pages)

*Rural gentrification*

Boswort, G. and Finke, H. (2019) Commercial Counterurbanisation: A driving force in rural economic development. *Environment and Planning A.* https://doi.org/10.1177/0308518X1988117 (21 pages)

Bryson, J., and Wickoff, W. (2010) Rural gentrification and nature in the Old and New Wests. *Journal of Cultural Geography.* https://doi.org/10.1080/08873631003593232 (23 pages)

Creamer, E., Allen, S., and Haggett, C. (2018) 'Incomers' leading 'community-led' sustainability initiatives: A contradiction in terms? *Environment and Planning C.* https://doi.org/10.1177/0263774X18802476 ( 19 pages)

Stockdale, A. (2006) Migration: Pre-requisite for rural economic regeneration? *Journal of Rural Studies.* https://doi.org/10.1016/j.jrurstud.2005.11.001 (13 pages)

*National parks & designation of nature*

Hall, C.M. and Frost, W. (2009) Introduction: The Making of the National Park Concept. Chapter 1 in: *Tourism and National Parks*. (13 pages) https://api.taylorfrancis.com/content/books/mono/download?identifierName=doi&identifierValue=10.4324/9780203884201&type=googlepdf

Germundsson, T. (2006) Regional cultural heritage versus national heritage in Scania's disputed national landscape. *International Journal of Heritage Studies.* https://doi.org/10.1080/13527250500036791 (17 pages)

Selman, P. (2009) Conservation designations—Are they fit for purpose in the 21st century? *Land Use Policy.* https://doi.org/10.1016/j.landusepol.2009.08.005 p. s142-153 (12 pages)

*Total number of pages*

Total expected reading approximately 1080 pages, slightly above the expected 1000 pages for a 7.5 credit Master course due to the breadth of geographic topics covered.

958 pages compulsory reading

76 compulsory readings (total), 45 with at least one assumed female author (59%), 26 with assumed female first author (34%)

Approximately 2.5 hours multimedia (30 mins compulsory, 2 hours optional)

Approximately 120 pages additional reading expected for assignments

*Author gender balance*

The authors perceived as female are highlighted in yellow.