



Literature for MESS62, Climate Change and Society applies from autumn semester 2020

Literature established by The Board of the Lund University Centre for
Sustainability Studies on 2020-06-11 to apply from 2020-06-11

See appendix.

Klimat och samhälle, 15 högskolepoäng
Climate Change and Society, 15 credits

MESS62 litteraturlista fastställd av LUCSUS styrelse den 11 juni 2020 (Dnr STYR 2020/1049).

(Female scholars in **yellow**)

Core literature (about 250 pages total):

Leichenko, R. and **O'Brian, K.** 2019. *Climate and Society: Transforming the Future*. Wiley, **248 pages**.

Selected articles and book sections (about 1000 pages total):

Abrahams, Y. (2018). How must I explain to the dolphins?: An intersectional approach to theorizing the epistemology of climate uncertainty. *Environmental Ethics*, 40(4), 389–404. **15 pages**.

Ananny, M., & **Crawford, K.** (2018). Seeing without knowing: Limitations of the transparency ideal and its application to algorithmic accountability. *New Media & Society*, 20(3), 973–989. **16 pages**.

Anderson, K., & Peters, G. (2016). The trouble with negative emissions. *Science*, 354(6309), 182–183. **2 pages**.

Avila, Sofia. 2018. "Environmental Justice and the Expanding Geography of Wind Power Conflicts." *Sustainability Science* 13(3): 599–616. **17 pages**.

Beck, S., & Mahony, M. (2018). The politics of anticipation: The IPCC and the negative emissions technologies experience. *Global Sustainability*, 1, e8. **8 pages**.

Berry, H. L., Waite, T. D., Dear, K. B. G., Capon, A. G., & Murray, V. (2018). The case for systems thinking about climate change and mental health. *Nature Climate Change*, 8(4), 282–290. **8 pages**.

Beuttler, C., Charles, L., & Wurzbacher, J. (2019). The Role of Direct Air Capture in Mitigation of Anthropogenic Greenhouse Gas Emissions. *Frontiers in Climate*, 1(November), 1–7. **7 pages**.

Bowden, V., Nyberg, D., & Wright, C. (2019). Planning for the past: Local temporality and the construction of denial in climate change adaptation. *Global Environmental Change*, 57, 1–9. **9 pages**.

Brink, E., **Wamsler, C.**, 2018. Collaborative Governance for Climate Change Adaptation: Mapping citizen–municipality interactions. *Environmental Policy and Governance* 82–97. **15 pages**.

Caney, S. (2010). Markets, Morality and Climate Change: What, if Anything, is Wrong with Emissions Trading? *New Political Economy*, 15(2), 197–224. **27 pages**

Carbon Disclosure Project. (2017). The Carbon Majors Database: CDP Carbon Majors Report 2017. <https://b8f65cb373b1b7b15feb-c70d8ead6ced550b4d987d7c03fcdd1d.ssl.cf3.rackcdn.com/cms/reports/documents/000/002/327/original/Carbon-Majors-Report-2017.pdf?1499691240>. **16 pages.**

Chatterton, P. Featherstone, D. and Routledge, P. 2013. Articulating Climate Justice in Copenhagen: Antagonism, the Commons, and Solidarity. *Antipode*. 602-620. **12 pages**

Ciplet, D., & Roberts, J. T. (2017). Climate change and the transition to neoliberal environmental governance. *Global Environmental Change*, 46, 148–156. **8 pages.**

Davis, S. and Caldeira, K. 2010. Consumption-based accounting of CO2 emissions. *Proceedings of the National Academy of Sciences* Mar, 107 (12) 5687-5692. **5 pages.**

den Elzen, M.G.J., Olivier, J.G.J., Höhne, N. et al. Countries' contributions to climate change: effect of accounting for all greenhouse gases, recent trends, basic needs and technological progress. *Climatic Change* 121, 397–412 (2013). **15 pages.**

Ellenbeck, S., & Lilliestam, J. (2019). How modelers construct energy costs: Discursive elements in Energy System and Integrated Assessment Models. *Energy Research and Social Science*, 47(June 2018), 69–77. **8 pages.**

Eriksen, S.H., Nightingale, A.J., Eakin, H., 2015. Reframing adaptation: The political nature of climate change adaptation. *Global Environmental Change* 35, 523–533. **10 pages.**

Faghmous, J. H., & Kumar, V. (2014). A Big Data Guide to Understanding Climate Change: The Case for Theory-Guided Data Science. *Big Data*, 2(3), 154–167. **13 pages.**

Field, Christopher B., et al. "Summary for policymakers." *Climate change 2014: impacts, adaptation, and vulnerability. Part A: global and sectoral aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change.* Cambridge University Press, 2014. **32 pages.**

Fournier, V. 2008. Escaping from the economy: the politics of degrowth, *International Journal of Sociology and Social Policy*, Vol. 28: 11/12 pp. 528 – 545. **17 pages**

Gillespie, Tarleton (2017) Algorithmically recognizable: Santorum's Google problem, and Google's Santorum problem, *Information, Communication & Society*, 20:1, 63-80, **17 pages.**

Gough, C., Garcia-Freites, S., Jones, C., Mander, S., Moore, B., Pereira, C., ... Welfle, A. (2018). Challenges to the use of BECCS as a keystone technology in pursuit of 1.50C. *Global Sustainability*, 1, e5. **9 pages.**

Guðmundsdóttir, Hrönn, Carton, W., Busch, H. and Ramasar, V. 2018. "Modernist Dreams and Green Sagas: The Neoliberal Politics of Iceland's Renewable Energy Economy." *Environment and Planning E: Nature and Space* 0(0): 251484861879682. **22 pages.**

Hickel, J. and Kallis, G. 2019. Is green growth possible? *New Political Economy*. **19 pages**

IPCC, 2018: Summary for Policymakers. In: *Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development.*

https://www.ipcc.ch/site/assets/uploads/sites/2/2019/05/SR15_SPM_version_report_LR.pdf.

24 pages.

IPCC, 2019: Summary for Policymakers. In: *Climate Change and Land: an IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems.*

https://www.ipcc.ch/site/assets/uploads/sites/4/2020/02/SPM_Updated-Jan20.pdf. **41 pages.**

Jerneck, A., & Olsson, L. (2008). Adaptation and the poor: development, resilience and transition. *Climate Policy*, 8(2), 170-182. **12 pages.**

Kallis, G. 2011. In defence of degrowth. *Ecological Economics* 70: 873–880 **7 pages**

Knutti, R., Rogelj, J. 2015. The legacy of our CO₂ emissions: a clash of scientific facts, politics and ethics. *Climatic Change* 133, 361–373. **12 pages**

Kothari, A. 2014. Radical Ecological Democracy: A path forward for India and beyond.

Development Volume 57, [Issue 1](#), pp 36–45. **9 pages**

Kuchler, M., & Bridge, G. (2018). Down the black hole: Sustaining national socio-technical imaginaries of coal in Poland. *Energy Research and Social Science*, 41(July 2017), 136–147.

11 pages.

Lenzi, D. (2018). The Ethics of Negative Emissions. *Global Sustainability*, 1, 1–8. **8 pages.**

Matthews, H. Quantifying historical carbon and climate debts among nations. *Nature Clim Change* 6, 60–64 (2016). **4 pages.**

McGlade, C., & Ekins, P. 2015. The geographical distribution of fossil fuels unused when limiting global warming to 2 °C. *Nature*, 517(7533), 187–190. doi:10.1038/nature14016. **3**

pages

McLaren, D., Tyfield, D. P., Willis, R., Szerszynski, B., & Markusson, N. O. (2019). Beyond “Net-Zero”: A Case for Separate Targets for Emissions Reduction and Negative Emissions. *Frontiers in Climate*, 1(August), **5 pages.**

Oreskes, N., & Conway, E. (2011). *Merchants of Doubt: How a Handful of Scientists Obscured the Truth on Issues from Tobacco Smoke to Global Warming.* New York: Bloomsbury Press. **355 pages.**

Pielke Jr, Roger, et al. "Climate change 2007: Lifting the taboo on adaptation." *Nature* 445.7128 (2007): 597. **1 page.**

REN21. 2019. Renewables 2019 - Global Status Report. Paris.

<https://wedocs.unep.org/bitstream/handle/20.500.11822/28496/REN2019.pdf?sequence=1&isAllowed=y%0Ahttp://www.ren21.net/cities/wp-content/uploads/2019/05/REC-GSR-Low-Res.pdf>. **About 50 pages.**

Reynolds JL. 2019 Solar geoengineering to reduce climate change: a review of governance proposals. *Proc. R. Soc. A* 475: 20190255. **33 pages.**

Sanderman, J., Hengl, T., & Fiske, G. J. (2017). Soil carbon debt of 12,000 years of human land use. *Proceedings of the National Academy of Sciences*, 114(36), 9575-9580. **5 pages.**

Schneider, Stephen H. "The changing climate." *Scientific American* 261, no. 3 (1989): 70-79. **9 pages.**

Stephens, J., & Surprise, K. (2020). The hidden injustices of advancing solar geoengineering research. *Global Sustainability*, 3, E2. **6 pages.**

Supran, G., & **Oreskes, N.** (2017). Assessing ExxonMobil ' s climate change Assessing ExxonMobil ' s climate change communications. *Environmental Research Letters*, 12. **19 pages.**

Warner, J., & Boas, I. (2019). Securitization of climate change: How invoking global dangers for instrumental ends can backfire. *Environment and Planning C: Politics and Space*, 37(8), 1471–1488. **17 pages.**

Woodward, Alistair, et al. "Climate change and health: on the latest IPCC report." *The Lancet* 383.9924 (2014): 1185-1189. **4 pages.**

York, Richard. 2012. "Do Alternative Energy Sources Displace Fossil Fuels?" *Nature Climate Change* 2(6): 441–43. **3 pages.**

+ around 250 pages worth of blogposts, newspaper articles, websites and opinion pieces that will form the basis of discussions and seminars

+ around 150 pages of articles to be selected depending on topics of group assignments and individual course paper.

+ around 200 pages on a climate fiction novel chosen by the students

Total pages: 1850

Gender balance: 38% of publications have female scholars as their first author, and 45% have female scholars as either first, second or third author. Reports (such as the IPCC) for which no gender division can be determined are excluded from this calculation. The gender division is justified because our course textbook, which the students will read in its entirety, is authored by two female scholars.