



**Literature for MESS51, Science and Politics of Climate
Change applies from autumn semester 2021**

Literature established by The Board of the Lund University Centre for
Sustainability Studies on 2021-05-20 to apply from 2021-08-30

See appendix.



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Sustainability Studies

Klimatförändring som vetenskap och politik, 7,5 högskolepoäng

Science and Politics of Climate Change, 7,5 credits

MESS51 litteraturlista fastställd av LUCSUS styrelse den 20 maj 2021.

1. Bathiany, S., Scheffer, M., Van Nes, E., Williamson, M., & Lenton, T. (2018). Abrupt Climate Change in an Oscillating World. *Scientific reports*, 8(1), 5040. (12 p.)
2. Black, R., Bennett, S. R., Thomas, S. M., & Beddington, J. R. (2011). Climate change: Migration as adaptation. *Nature*, 478(7370), 447-449. (3 p.)
3. Brown, C., Alexander, P., Arneeth, A., Holman, I., & Rounsevell, M. (2019). Achievement of Paris climate goals unlikely due to time lags in the land system. *Nature Climate Change*, 1. (6 p.)
4. Brzoska, M., & Fröhlich, C. (2016). Climate change, migration and violent conflict: vulnerabilities, pathways and adaptation strategies. *Migration and Development*, 5(2), 190210. (21 p.)
5. Crutzen, P. (2006). Albedo enhancement by stratospheric sulfur injections: A contribution to resolve a policy dilemma? *Climatic Change*, 77(3), 211-219. (9 p.)
6. Dunlap, R. E. (2013). Climate change skepticism and denial: An introduction. *American behavioral scientist*, 57(6), 691-698. (8 p.)
7. Edenhofer, O., Pichs-Madruga, R., Sokona, Y., Farahani, E., Kadner, S., Seyboth, K., . . . Eickemeier, P. (2014). *Climate change 2014: Mitigation of climate change*. Retrieved from Cambridge, UK and New York, NY, USA. (2 selected chapters; ~250 p.)
8. Field, C. B., Barros, V. R., Dokken, D. J., Mach, K. J., Mastrandrea, M. D., Bilir, T. E., . . . L.L., L. L. W. (2014). *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge, UK, and New York, USA: Cambridge University Press. (2 selected chapters; ~250 p.)
9. Fuss, S., Canadell, J. G., Peters, G. P., Tavoni, M., Andrew, R. M., Ciais, P., . . . Nakicenovic, N. (2014). Betting on negative emissions. *Nature Climate Change*, 4(10), 850-853. (4 p.)

10. Horton, J. B., Keith, D. W., & Honegger, M. (2016). Implications of the Paris Agreement for Carbon Dioxide Removal and Solar Geoengineering. Viewpoints by The Harvard Project on Climate Agreements (July 2016), 10. (10 p.)
11. IPCC. (2019). IPCC Special Report on Climate Change and Land. Geneva, Switzerland: World Meteorological Organization. (2 selected chapters; ~150 p.)
12. IPCC, “Special Report on 1.5 Degrees Warming, Summary for Policymakers” (Geneva, Switzerland, 2018), (available at www.ipcc.ch)
13. IPCC, “Special Report on Climate Change and Land, Summary for Policymakers.” (Geneva, Switzerland, 2019), (available at www.ipcc.ch)
14. IPCC, “IPCC Special Report on Oceans and the Cryosphere, Summary for Policymakers” (Geneva, 2019), (available at www.ipcc.ch)
15. Luederitz, C., Meyer, M., Abson, D. J., Gralla, F., Lang, D. J., Rau, A.-L., & von Wehrden, H. (2016). Systematic student-driven literature reviews in sustainability science—an effective way to merge research and teaching. *Journal of Cleaner Production*, 119, 229-235. (7 p.)
16. Mastrandrea, M., Field, C., Stocker, T., Edenhofer, O., Ebi, K., Frame, D., . . . Matschoss, P. (2010). Guidance note for lead authors of the IPCC fifth assessment report on consistent treatment of uncertainties. available at www.ipcc.ch. (7 p.)
17. Matthias, H., Steffe, M., Annette, H., Christoph, B., Thomas, P., Wil, B., . . . David, K. (2017). Climate change, negative emissions and solar radiation management: It is time for an open societal conversation. (11 p.)
18. O'Brien, K., Eriksen, S., Nygaard, L. P., & Schjolden, A. N. E. (2007). Why different interpretations of vulnerability matter in climate change discourses. *Climate Policy*, 7(1), 73-88. doi:10.1080/14693062.2007.9685639 (16 p.)
19. Olsson, L. (2017). Climate migration and conflicts: A self-fulfilling prophecy? In D. Manou, A. Baldwin, D. Cubie, A. Mihr, & T. Thorp (Eds.), *Climate Change, Migration and Human Rights: Law and Policy Perspectives* (pp. 117-128). Abingdon, UK: Routledge. (9 p.)
20. Olsson, L. (2020). Politics of soils and agriculture in a warming world. Chapter 1.2 in D. Dent and B. Boincean 2020 (Eds.), *Farming forever*. in press. (10 p.)
21. Oreskes, N. (2018). The scientific consensus on climate change: How do we know we're not wrong? *Climate Modelling* (pp. 31-64): Springer. (36 p.)
22. Praetorius, S. K. (2018). North Atlantic circulation slows down. *Nature*, 556(12 April 2018), 180181. (2 p.)
23. Schlesinger, W. H., & Amundson, R. (2019). Managing for soil carbon sequestration: Let's get realistic. *Global Change Biology*, 25(2), 386-389. (4 p.)
24. Schleussner, C.-F., Rogelj, J., Schaeffer, M., Lissner, T., Licker, R., Fischer, E. M., Hare, W. (2016). Science and policy characteristics of the Paris Agreement temperature goal. *Nature Clim. Change*, 6(9), 827-835. doi:10.1038/nclimate3096 (9 p.)

25. Smith, P. (2016). Soil carbon sequestration and biochar as negative emission technologies. *Global Change Biology*, 22(3), 1315-1324. (10 p.)
26. Stocker, T. (2014). *Climate change 2013: the physical science basis: Working Group I contribution to the Fifth assessment report of the Intergovernmental Panel on Climate Change*: Cambridge University Press. (2 selected chapters; ~200 p)
27. Van Vuuren, D. P., Hof, A. F., Van Sluisveld, M. A., & Riahi, K. (2017). Open discussion of negative emissions is urgently needed. *Nature Energy*, 2(12), 902. (1 p.)
28. Webb, N. P., Marshall, N. A., Stringer, L. C., Reed, M. S., Chappell, A., & Herrick, J. E. (2017). Land degradation and climate change: building climate resilience in agriculture. *Frontiers in Ecology and the Environment*, 15(8), 450-459. (10 p.)
29. Wilson, E. O. (2010). *The creation: An appeal to save life on earth*: WW Norton & Company. (Introductory note; 6 p.)
30. Wright, E. O. (2015). Sociological limitations of the climate change encyclical. *Nature Climate Change*, 5(10), 902. (2 p.)

Required reading

Total number of pages: 1153 ($\pm 10\%$) depending on selected chapters.

Author gender balance

16 titles (60%) include both female and male authors, 10 titles (33%) have male authors only, 2 titles (7%) have female authors only.