



**Literature for MESS51, Science and Politics of Climate  
Change 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 2020-08-31

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See appendix.

## Klimatförändring som vetenskap och politik, 7,5 högskolepoäng

*Science and Politics of Climate Change, 7,5 credits*

MESS51 litteraturlista fastställd av LUCSUS styrelse den 11 juni 2020 (dnr STYR 2020/1049).

- 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.)
- Black, R., Bennett, S. R., Thomas, S. M., & Beddington, J. R. (2011). Climate change: Migration as adaptation. *Nature*, 478(7370), 447-449. (3 p.)
- 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.)
- Brzoska, M., & Fröhlich, C. (2016). Climate change, migration and violent conflict: vulnerabilities, pathways and adaptation strategies. *Migration and Development*, 5(2), 190-210. (21 p.)
- Crutzen, P. (2006). Albedo enhancement by stratospheric sulfur injections: A contribution to resolve a policy dilemma? *Climatic Change*, 77(3), 211-219. (9 p.)
- Dunlap, R. E. (2013). Climate change skepticism and denial: An introduction. *American behavioral scientist*, 57(6), 691-698. (8 p.)
- 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. (4 selected chapters; ~250 p.)
- 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. (4 selected chapters; ~250 p.)
- 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.)
- 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.)
- IPCC. (2019). *IPCC Special Report on Climate Change and Land*. Geneva, Switzerland: World Meteorological Organization. (2 selected chapters; ~150 p.)
- 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.)
- Masson-Delmotte, V., Zhai, P., Pörtner, H.-O., Roberts, D., Skea, J., Shukla, P. R., . . . Pidcock, R. (2018). *Global warming of 1.5 C* (Vol. 1). Geneva, Switzerland: World Meteorological Organization. (2-3 selected chapters; ~200 p.)
- 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 <https://www.ipcc.ch>. (7 p.)
- 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.)

- 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.)
- 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.)
- 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.)
- 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.)
- Praetorius, S. K. (2018). North Atlantic circulation slows down. *Nature*, 556(12 April 2018), 180-181. (2 p.)
- Schlesinger, W. H., & Amundson, R. (2019). Managing for soil carbon sequestration: Let's get realistic. *Global Change Biology*, 25(2), 386-389. (4 p.)
- 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.)
- Smith, P. (2016). Soil carbon sequestration and biochar as negative emission technologies. *Global Change Biology*, 22(3), 1315-1324. (10 p.)
- 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)
- 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.)
- 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.)
- Wilson, E. O. (2010). *The creation: An appeal to save life on earth*: WW Norton & Company. (Introductory note; 6 p.)
- Wright, E. O. (2015). Sociological limitations of the climate change encyclical. *Nature Climate Change*, 5(10), 902. (2 p.)

Total number of pages: ~1273 ( $\pm$  10%) depending on selected chapters.

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.