

# Publikationen

## Dr. Gerrit Hansen

Stand 01/2023

### Journal Publications (peer reviewed)

2021

- Callaghan, M., Schleussner, CF, Nath, S., Lejeune, Q., Knutson, T.R., Reichstein, M., **Hansen, G.**, et al. Machine-learning-based evidence and attribution mapping of 100,000 climate impact studies. *Nature Climate Change*, Issue 11, 966–972 (2021). doi: 10.1038/s41558-021-01168-6

2017

- Knopf, B., Fuss, S., **Hansen, G.**, Creutzig, F., Minx, J., Edenhofer, O., 2017: From targets to action: rolling up our sleeves after Paris. *Wiley's Global Challenges*, 1:2, doi:10.1002/gch2.201600007

2016

- **Hansen, G.**, Stone, DS., 2016: Assessing the observed impact of anthropogenic climate change, *Nature Climate Change*, Issue 6, pp 532–537, doi:10.1038/nclimate2896
- Stone, DS., **Hansen, G.**, 2016: Rapid systematic assessment of the detection and attribution of regional anthropogenic climate change, *Climate Dynamics*, Volume 47, Issue 5, pp 1399–1415, doi:10.1007/s00382-015-2909-2
- Huggel C, Bresch D, **Hansen G**, James R, Mechler, R., Stone D, & Wallmann-Helmer I (2016). [Attribution of irreversible loss to anthropogenic climate change](#). In: EGU General Assembly 2016, 17-22 April, 2016, Vienna Austria
- **Hansen, G.**, Stone, D., Auffhammer, M., Huggel, C., Cramer, W., 2016: Linking local impacts to climate change – a guide to attribution. *Regional Environmental Change* 16 (2, SI), pp.527-541. doi:10.1007/s10113-015-0760-y

2015

- **Hansen, G.**, Cramer, W., 2015: The global distribution of observed climate change impacts. Commentary, *Nature Climate Change*, 5(3), 182-185

- **Hansen, G.**, 2015: The evolution of the evidence base for observed climate change impacts. *Current Opinion in Environmental Sustainability*, 14:187–197, doi:10.1016/j.cosust.2015.05.005
- Huggel, C., Stone, D., Eicken, H., **Hansen, G.**, 2015: Potential and limitations of the attribution of climate change impacts for informing loss and damage discussions and policies. *Climatic Change*, Special Issue on Climate Justice, 133: 453, doi: 10.1007/s10584-015-1441-z
- Schulte-Uebbing, L., G. **Hansen**, A. Hernández, M. Winter, M., 2015: Chapter Scientists in the IPCC AR5 - Experience and Lessons Learned. *Current Opinion on Environmental Sustainability*, Volume 14, June 2015, pp 250–256, doi:10.1016/j.cosust.2015.06.012

2014

- **Hansen, G.**, Auffhammer, M., Solow, A., 2014: On the attribution of an extreme event to climate change. *Journal of Climate*, 27:8297-8301, doi:10.1175/JCLI-D-14-00399.1

2013

- Huggel, C., Stone, D., Auffhammer, M., **Hansen, G.**, 2013: Loss and damage attribution. *Nature Climate Change*. 2013;3(8):694–696
- **Hansen, G.**, D. Stone, M. Auffhammer, 2013: Detection and attribution of climate change impacts – is a universal discipline possible? Conference paper, Impacts World Conference, Potsdam, 27-30 May 2013
- Stone, D., M. Auffhammer, M. Carey, G. **Hansen**, C. Huggel, W. Cramer, D. Lobell, U. Molau, A. Solow, L. Tibig, and G. Yohe, 2013: The challenge to detect and attribute effects of climate change on human and natural systems. *Climatic Change*, 121(2)

### Monographs and Book Chapters (peer reviewed)

2016

- Hirschfeld, J., D. Messner, G. Hansen, 2016: Die klimaresiliente Gesellschaft – Transformation und Systemänderungen. In Brassler, G., Jacob, D. (eds) Klimabericht: Assessment für Deutschland, Springer, Germany

2015

- Hansen, G., 2015: Assessing the observed impacts of anthropogenic climate change. PhD Thesis, Wageningen University, NL, pp. 186. ISBN 978-94-6257-429-8 2014

- Cramer, W et al., 2014: Detection and attribution of observed impacts. In: Climate Change 2014: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, [C.B. Field, V. Barros, D.J. Dokken, M.D. Mastrandrea KJM, eds.]. Cambridge University Press, pp. 979-1037

2012

- **Hansen, G., M. Jakob, S. Kadner, 2012: Sustainable Development as a Cornerstone of a Future Energy System. In *Climate Change, Justice and Sustainability* [Edenhofer, O.; Wallacher, J.; Lotze-Campen, H.; Reder, M.; Knopf, B.; Müller, J. (Eds.)], Springer**
- O. Edenhofer, R. Pichs-Madruga, Y. Sokona, C. Field, V. Barros, T.F. Stocker, Q. Dahe, J. Minx, K. Mach, G.-K. Plattner, S. Schlömer, G. **Hansen**, M. Mastrandrea (eds.). Meeting Report of the Intergovernmental Panel on Climate Change Expert Meeting on Geoengineering. IPCC Working Group III Technical Support Unit, PIK Potsdam, Germany, pp. 99

2011

- IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation [O. Edenhofer, R. Pichs-Madruga, Y. Sokona, K. Seyboth, P. Matschoss, S. Kadner, T. Zwickel, P. Eickemeier, G. **Hansen**, S. Schlömer, C. von Stechow (eds)], Cambridge University Press
- **Author of the Summary for Policymakers, and the Technical Summary of the IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation (SRREN); Contributing Author of SRREN Chapter 9, *Renewable Energy in the Context of Sustainable Development***

## Policy Briefs and Reports

2022

- **Summary report, 57th Session of the IPCC, 27-30th September 2022.** Geneva, Switzerland. IISD RS Earth Negotiations Bulletin Vol. 12 No. 806, [https://enb.iisd.org/sites/default/files/2022-10/enb12806e\\_0.pdf](https://enb.iisd.org/sites/default/files/2022-10/enb12806e_0.pdf)
- **Daily Briefings and Summary Report, IPBES-9** (9th Session of the Intergovernmental Science Policy Platform for Biodiversity and Ecosystem Services), 3-9th July 2022, Bonn, Germany, IISD RS Earth Negotiations Bulletin Vol. 31 No. 58-64 <https://enb.iisd.org/intergovernmental-science-policy-platform-biodiversity-ecosystem-services-ipbes9>
- **GEF Bulletin, 62nd Meeting of the Global Environmental Facility Council,** 21-23rd June 2022, Washington DC, [https://enb.iisd.org/sites/default/files/2022-06/gef\\_council\\_62\\_0.pdf](https://enb.iisd.org/sites/default/files/2022-06/gef_council_62_0.pdf)

- **Daily Briefings and Summary Report, UNCCD COP15** (15th Meeting of the Conference of the Parties of the UN Convention to Combat Desertification – UNCCD), 9–20th May 2022, Abidjan, Côte d'Ivoire; IISD RS Earth Negotiations Bulletin Vol. 4 No. 293 – 302, <https://enb.iisd.org/convention-combat-desertification-unccd-cop15>
- **Summary report, 56th Session of the IPCC and 14th Session of Working Group III**, March 21st-April 4th, 2022, online. IISD RS Earth Negotiations Bulletin Vol. 12 No. 795, <https://enb.iisd.org/sites/default/files/2022-04/enb12795e.pdf>

2021

- **Summary report, resumed 53rd Session of the IPCC** (Intergovernmental Panel on Climate Change); 22-26th March 2021, IISD RS Earth Negotiations Bulletin Vol. 12 No. 799, <https://enb.iisd.org/sites/default/files/2021-03/enb12779e.pdf>

2019

- **Hansen, G., Weischer, L., Bingler, J.** Investitionen im Einklang mit 1.5°C - Die Bedeutung des IPCC-Sonderberichts zu 1,5 Grad globale Erwärmung für Finanzierungsentscheidungen. Germanwatch Hintergrundpapier, Februar 2019, <https://germanwatch.org/de/16273>
- **IGF Bulletin AGM 15, Daily Reports and Summary**, 15th Annual General Meeting (AGM) of the Intergovernmental Forum on Mining, Minerals, Metals and Sustainable Development (IGF), 7–10th October 2019, Geneva, Switzerland, IISD IGF Bulletin 210, Vol. 16-20, <https://enb.iisd.org/events/15th-annual-general-meeting-agm-intergovernmental-forum-mining-minerals-metals-and>

2017

- Bals, C., **Hansen, G., Weischer, L.** The Hamburg G20 Summit Outcome on Climate and Energy. Germanwatch Policy, Brief Juli 2017, <https://germanwatch.org/en/14098>
- Bingler, J.A., **Hansen, G., Von Rosenberg, V., Weischer, L.** Die Rolle Multilateraler Entwicklungsbanken zur Umsetzung des Pariser Abkommens. Germanwatch Hintergrundpapier, Juni 2017, <http://germanwatch.org/de/14041>
- **Hansen, G. et al.** Shifting the trillions. The role of the G20 in making financial flows consistent with global long-term climate goals. Germanwatch Briefing Paper – German Presidency update, Februar 2017, <https://germanwatch.org/de/13488>

2016

- Guo, H., Bai, Y., **Hansen**, G. From Hangzhou to Hamburg – Green Finance in the G20. Policy perspective, October 2016, Germanwatch and Greenovation Hub
- **Hansen**, G. et al. Shifting the trillions. The role of the G20 in making financial flows consistent with global long-term climate goals. Germanwatch Briefing Paper August 2016

## Other Publications

2022

- Coverage of the UN Rio Conventions Pavilion (RCP) at the 15th Conference of the Parties to the **Biodiversity Convention's (CBD COP15) in Montreal**, 13-18th December 2022 <https://enb.iisd.org/rio-conventions-pavilion-cbd-cop15>
- What can we expect from the upcoming IPCC mitigation report? Blog-Post, March 2022

2021

- Let's Help Save the Global Climate by Restoring Local Land, COP26-Dossier, Robert Bosch Stiftung, November 2021 <https://www.bosch-stiftung.de/en/story/lets-help-save-global-climate-restoring-local-land>
- Serving up a food-systems revolution in Glasgow, COP26-Dossier, Robert Bosch Stiftung, November 2021, <https://bit.ly/3nrDcKI>
- In a nutshell: UN Climate Summit in Glasgow, COP26-Dossier, Robert Bosch Stiftung, December 2021 <https://www.bosch-stiftung.de/en/news/un-climate-summit-glasgow-between-success-and-disappointment>

2019

- Heutiges Handeln entscheidet die Zukunft im und am Meer; Gastbeitrag in Umwelt Aktuell 11/2019, oekom Verlag

2017

- G20-Start in Argentinien: Zur Klimakrise kein Konsens, Blogbeitrag, Dezember 2017, <https://germanwatch.org/de/14796>
- Der deutsche G20-Subventionsbericht: eine weitere Chance vertan, Blogbeitrag, November 2017, <https://germanwatch.org/de/14749>
- Germany fails at G20 Fossil Fuel Subsidy Review, Blog post, November 2017, <https://germanwatch.org/en/14750>

- Argentinien zwischen den Stühlen: die Vorbereitung einer schwierigen G20-Präsidentschaft, Blogbeitrag, Oktober 2017, <https://germanwatch.org/de/14554>
- Between a rock and a hard place: Argentina preparing a difficult G20 presidency, Blog post, October 2017, <https://germanwatch.org/en/14553>
- Die Zukunft des Emissionshandels: Was wir handeln, muss real sein – und wir müssen es beweisen! Blogbeitrag, Oktober 2017, <https://germanwatch.org/de/14440>
- Dünnere Luft für die fossile Finanzwirtschaft. Blogbeitrag, Juli 2017, <http://www.klimaretter.info/meinungen/standpunkte/23408-duennere-luft-fuer-fossile-finanzwirtschaft>
- *Klimaschutz und Entwicklung sind keine Gegensätze*, Interview mit Marianne Buenaventura Goldman, Koordinatorin des BRICSAM-NGO-Netzwerkes aus Südafrika, Weitblick 2/2017, <https://germanwatch.org/de/14007>
- G19 für das Klima? Internationaler Klimaschutz in Zeiten des US-Politikversagens, Weitblick Artikel, Juni 2016, <https://germanwatch.org/de/14004>
- David trifft auf Goliath: Das erste V20-G20-Treffen, Blogbeitrag, April 2017, <https://germanwatch.org/de/13800>
- David meets Goliath: The first V2-G20 meeting, Blog post, April 2017, <https://germanwatch.org/en/13801>

2016

- Dasselbe in Grün? Blogbeitrag mit H. Guo, November 2016 <https://germanwatch.org/de/13145>
- Same same but green? Blogpost, November 2016, <https://germanwatch.org/en/13146>
- G20 als Schwungrad der Dekarbonisierung? Weitblick Artikel mit C. Bals, Oktober 2016, <https://germanwatch.org/de/13006>
- Startschuss für den IPCC-Sonderbericht zu 1.5°C Erwärmung, Blogbeitrag, Oktober 2016, <http://germanwatch.org/de/12929>
- G20-Staaten müssen CO2 bepreisen. Blogbeitrag mit C. Bals, September 2016, <http://www.klimaretter.info/meinungen/standpunkte/21907-g20-staaten-muessen-co2-bepreisen>
- Why the G20 must put a price on Carbon, Blogpost, September 2016, <https://germanwatch.org/en/12837>
- Eine Welt ohne Kohle, Öl und Gas, Standpunkt mit L. Weischer, August 2016, <http://www.klimaretter.info/meinungen/standpunkte/21815-eine-welt-ohne-kohle-oel-und-gas>
- G20 should lead the way to a fossil-free future, Blogpost, August 2016, <https://germanwatch.org/en/12706>
- Das 1.5°C Dilemma. Blogbeitrag, Klimaretter, August 2016, <http://www.klimaretter.info/meinungen/standpunkte/21750-das-1-5-grad-dilemma>
- Après Paris: Das 1,5° Dilemma. Sonnenenergie, Ausgabe 2016/6

- 23. Fachgespräch der Clearingstelle EEG - »Technische Einrichtungen zur Einspeiseregulierung - Einspeisemanagement und Direktvermarktung« ER (Zeitschrift für die gesamte Energierechtspraxis), mit N. Mutlak, 03/16, 140

### Teaching Experience - Academic Courses

- 03/2012 – 08/2012 ■ **Responses to global environmental change - Mitigation**  
Teaching, program coordination, design and supervision of student term papers for a 10 ECTS module of the HNEE Graduate Course Global Change Management (GCM), focusing on interactions, risk and opportunities of climate change mitigation options
- 09/2010 – 02/2011 ■ **Global Systems Analysis**  
Teaching (subject: systems dynamic and analysis), program coordination, design and supervision of student term projects for a 12 ECTS module of HNEE GCM, focusing on the characteristics, dynamics and global change drivers within natural and human systems

### Individual lectures, key notes and public events (selection)

- 01/2023 ■ **The Montreal Biodiversity COP and the Global Biodiversity Framework - Insights from a climate perspective**  
Vortrag, Science-Policy Seminarreihe am Mercator Institute for Climate Change and the Global Commons (MCC)
- 05/2022 ■ **State of negotiations and expected outcomes of UNCCD COP15 in Abidjan**  
Internews' Earth Journalism Network's (EJN's) United Nations Convention to Combat Desertification (UNCCD) COP15 [Daily Briefing #6](#) (Webcast)
- 12/2021 ■ **Linking climate and biodiversity, from Glasgow to Kunming**  
Panelist, [China Dialogue Webinar](#), explored the close connections between climate and biodiversity, and China's leading role as host of the CBD COP15 biodiversity conference
- 11/2021 ■ **COP26 - Climate change hits Africa with full force - what needs to be done?**  
Speaker, [International Journalists Programme IJP Africa Talks #7](#)

- 11/2021 ■ **Views from COP26: Can we tackle the climate crisis in time?**  
 Keynote, COP26 Philanthropy Roundtable hosted by Dafne/ECFI/Fdt.Scotland/F20/WINGS
- 10/2018 ■ **IPCC Sonderbericht zu 1.5°C globale Erwärmung – Kernbotschaften**  
 Keynote beim Round Table des Russian Social Ecological Forum St. Petersburg
- 10/2018 ■ **IPCC SR 1.5C - Auftrag, zentrale Botschaften und Erkenntnisse**  
 Vortrag, Diskussionsveranstaltung im Pögehaus Leipzig
- 06/2018 ■ **Moderator, Berlin Green Investment Summit and Berlin Investor Day**  
 IIGCC, Wermuth Asset Management and TONIIC
- 05/2018 ■ **Detection and attribution - bridging the assessment across WGI and WGII**  
 Joint keynote with Prof. Robert Vautard, IPCC Expert Meeting on Assessing Climate Information for Regions, Trieste
- 11/2017 ■ **Transition-testing infrastructure investments**  
 Panelist, Side-Event von Germanwatch und Heinrich-Böll-Stiftung, COP23 in Bonn
- 06/2017 ■ **Green Finance** – Panelist at Mercator Institute for China Studies High Level Conference: Joining Forces in Global climate Policy, June 30th 2017, Berlin
- 03/2017 ■ **Oceans and Climate Change: from scientific evidence to action**  
 Panelist, German Science Year 2016 - Seas and Oceans at the UK Embassy, Berlin
- 09/2016 ■ **Von China nach Deutschland: der G20-Prozess als Schwungrad für die globale Transformation** – Panelist, Festival der Zukunft des BMU
- 03/2015 ■ **Detection and attribution of observed impacts, and their implication for adaptation**



- Keynote at GCOS/UNFCCC/IPCC workshop “Enhancing observations to support preparedness and adaptation in a changing climate – learning from IPCC AR5”, Bonn
- 06/2014 ■ **The art of assessment making - structures and processes behind the IPCC report**  
Keynote; School of Integrated Climate System Sciences, Hamburg, PhD retreat
- 04/2014 ■ **Key impacts and risks of climate change - highlights from the IPCC WG2 report**  
Public lecture, PIK “Science and Pretzels” lecture series for PhD students
- 04/2013 ■ **IPCC – the art of being policy relevant without being policy prescriptive**  
Lecture, HNEE Graduate Course Global Change Management
- 10/2012 ■ **Renewable energies and climate change mitigation: lessons from the IPCC SRREN**  
Lecture, Wesleyan University, Connecticut, USA, College of the Environment
- 04/2011 ■ **The bioenergy challenge**  
Session moderator, Microenergy International Conference, TU Berlin