



# British Library Collection Guide

## Climate Change

### About the collection

This collection guide describes what the British Library's collections include on the subject of climate change, and has been produced as part of our work in connection with the United Nations COP26 summit in Glasgow in November 2021.

We have highlighted some of our key books, journals, databases and recordings about climate change below. You can also [search our catalogue](#) for further resources. If an item is not publicly available online, you can order it to review in our Reading Rooms. Find out [how to get a free Reader Pass and order items](#).

### What can I access online?

#### Asia-Pacific Integrated Model

A website for the AIM model used to predict climate change and its effects, particularly in the Asia-Pacific region.

<https://www-iam.nies.go.jp/aim/>

#### Climate Explorer

A user-friendly database of climate statistics from the Royal Netherlands Institute of Meteorology.

<https://climexp.knmi.nl/start.cgi>

#### The Climate Question

Weekly BBC World Service series on climate change, available to stream or download as a podcast.

<https://www.bbc.co.uk/programmes/w13xtvb6/episodes/player>

#### Climate Vulnerable Forum

The CVF is an international organisation of countries that consider themselves at the most immediate risk from the effects of climate change.

<https://thecvf.org>

#### E3ME

A website for the E3ME model for the economic assessment of climate change.

<https://www.e3me.com/>

#### EU Climate Action

Official web pages for the European Union's policies regarding climate change, including information on emissions targets, adaptation, and emissions trading.

[https://ec.europa.eu/clima/index\\_en](https://ec.europa.eu/clima/index_en)

#### European Climate Assessment and Dataset

A website set up by the meteorological offices of 31 European countries, offering detailed

data on all aspects of climate in Europe.

<https://www.ecad.eu/>

Exact Editions Climate Crisis resources

A collection of key articles from news and current affairs magazines on climate change, selected by the aggregator Exact Editions.

<https://institutions.exacteditions.com/links/climatecrisis>

Friends of the Earth UK climate change

Friends of the Earth pages on climate change, their campaigns against it, and how people can help in their daily lives.

<https://friendsoftheearth.uk/climate-change>

FUND Model

The FUND model is a model for the assessment of the environmental, economic, and population impacts of climate change.

<http://www.fund-model.org/>

Global Climate Forum

An international institute for the study of scientific, economic and social aspects of climate change. Their website includes information on their activities and a collection of Working Papers on various aspects of the crisis.

<https://globalclimateforum.org>

Greenfile

A free database provided by the database company EBSCO, covering journals, magazines, books, and government reports on environmental issues.

<http://www.greeninfoonline.com/>

Greenpeace UK climate change

Greenpeace's pages on climate change, what it is, and their current campaigns against it.

<https://www.greenpeace.org.uk/challenges/climate-change/>

IMAGE 3.0

IMAGE is a model used to assess the global environment.

<https://models.pbl.nl/image/>

Intergovernmental Panel on Climate Change

The United Nations agency set up in 1988 to report consensus opinion on climate change, its risks, and its mitigation. The website contains a wealth of documents and data produced or used by the agency.

<https://www.ipcc.ch>

International Institute for Applied Systems Analysis

Created during the Cold War as an institution for researchers from both Western and Communist countries to work on global problems, the institute has a heavy current focus on climate change, including maintaining the MESSAGE climate-economic model.

<https://iiasa.ac.at>

Joint Global Change Research Institute

An American academic institution whose website includes a great deal of information on climate change modelling, in particular the GCAM model.

<http://www.globalchange.umd.edu/>

#### Met Office

The British government meteorological organisation has information on UK climate and on its own researches into climate change. Includes the UK Climate Projections model for the future climate of the UK under varying levels of climate change.

<https://www.metoffice.gov.uk/>

#### Met Office Science & Services Youtube channel

The Met Office's channel for videos on climate science, including disturbing weather forecasts for the next century with continued climate change.

<https://www.youtube.com/channel/UCSW7Jij3hIcz9EXZSxUZauw>

#### MIT Joint Program on the Science and Policy of Global Change

MIT's website on climate change and other issues, with many publications and resources. Includes detailed information on the IGSM model for climate change assessment.

<https://globalchange.mit.edu/>

#### National Climate Assessment

The National Climate Assessment is a US government report on the future impacts of climate change in the country.

<https://nca2014.globalchange.gov/>

#### NCAR Climate Data Guide

A vast collection of climate data from the US National Center for Atmospheric Research.

<https://climatedataguide.ucar.edu/>

#### Potsdam Institute for Climate Change Research

A national German institution for investigation of climate change. Maintains the REMIND model for the effects of climate change on the global economy.

<https://www.pik-potsdam.de/en>

#### Real Climate

Blog of a number of practising climate scientists on climate change. Not for the total beginner, but interesting.

<https://www.realclimate.org/>

#### UK Web Archive collection on climate change

This is a selected collection of websites dealing with climate change, including news reports, government advice, pressure groups, and individuals posting on blogs and social media. Some of it can be read online where rights-owners have given their permission, while other material has been taken under non-print legal deposit and can only be viewed at national libraries.

<https://www.webarchive.org.uk/en/ukwa/collection/369>

#### UN Climate Change

The United Nations' Youtube channel on climate change, including recordings of sessions and brief documentaries for the general public.

<https://www.youtube.com/user/climateconference>

#### UNDP Climate Change Adaptation

The United Nations Development Agency's pages on adaptation to climate change and promoting climate resilience.

<https://www.adaptation-undp.org/>

#### weADAPT

weADAPT is a forum to share and find out about real-world case studies on adapting to

climate change, supported by the Stockholm Environment Institute.

<https://www.weadapt.org/>

#### The WITCH Model

Website on the WITCH model for the assessment of the effects of climate change. The model is open source and fully documented.

<https://www.witchmodel.org/>

#### World Meteorological Organisation

The United Nations agency on meteorology in general. Their online Library includes many documents on climate change, including an annual Greenhouse Gas Bulletin on the current composition of the atmosphere and its implications for climate change.

<https://public.wmo.int/en>

#### World Meteorological Organization State of the Climate Playlist

A collection of WMO videos on the changing climate over the last few years.

<https://www.youtube.com/playlist?list=PLNaX-uTWSWrGDLfTH724s9FFlumq50nWr>

## What is only available at the British Library?

### Books

Abate, R. S. *Climate change and the voiceless*. Cambridge: Cambridge University Press, 2020. Available at shelfmark YK.2021.a.902.

Considers how action against climate change could be legally enforced using the concepts of intergenerational equity, legal personhood for animals, and rights of nature.

Archer, D., and R. Pierrehumbert. *The warming papers: The scientific foundation for the climate change forecast*. Hoboken, NJ: Wiley-Blackwell, 2011. Available at shelfmark YC.2011.b.2351

Collects key historic scientific papers in the history of the recognition of human-caused climate change.

Birkmann, Jörn, ed. *Measuring Vulnerability to Natural Hazards: Towards Disaster Resilient Societies*. 2d ed. Tokyo: United Nations University Press, 2013. Available at shelfmark YC.2014.a.3435.

Describes the vulnerability of societies to natural hazards in general, including climate change and weather-related disasters.

Chomsky, N. and Pollin, R. *Climate Change and the Global Green New Deal: The political economy of saving the planet*. London: Verso, 2020. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

Argues that capitalism is incompatible with fighting climate change, and suggests political and economic tactics to achieve a Green New Deal.

Dessler, A. E. and Parson, E. A. *The Science and Politics of Global Climate Change: a guide to the debate*. 3<sup>rd</sup> ed. Cambridge, Cambridge University Press, 2020. Available at shelfmark YC. 2021. b. 91.

A general introduction to the science of climate change and the political debates about responses to it.

Dyke, J. *Fire, Storm and Flood: the violence of climate change*. London: Apollo, 2021. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

A popular work describing the changes in Earth's climate through history, from the formation of the planet until modern-day human-caused climate change.

Fletcher, W. D. and Smith, C. B. *Reaching Net Zero: What it takes to solve the global climate crisis*. Amsterdam: Elsevier, 2020. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

Describes the general causes and effects of climate change before advocating carbon pricing as the main solution and evaluating alternative energy sources. Compares the experience and policies of Germany, Russia, the USA, China, India and Japan.

Gates, B. *How to Avoid a Climate Disaster: The solutions we have and the breakthroughs we need*. London, Penguin, 2020. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

Popular work discussing how to fight climate change and decarbonise society based on five major areas where change is required: energy, manufacturing, agriculture, transport, and heating/cooling.

Hannah, L. J. *Climate Change Biology*. Amsterdam: Academic Press 2021. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

Describes the effects of climate change on biology, including information on effects on individual species, ecosystems, and seasons. Describes earlier climate variations in Earth's history, and seeks to assess the risk of extinctions due to climate change. Potential solutions to reduce carbon emissions and mitigate climate change's effects are discussed.

Helm, D. *Net Zero: how we stop causing climate change*. London: William Collins, 2020. Available electronically in the British Library reading rooms through Non-Print Legal Deposit. The author argues for a climate change policy based on carbon pricing, infrastructure improvements, and sequestration, before moving on to the specific problem areas of agriculture, transportation, and electricity generation.

Herzog, H. J. *Carbon Capture*. Cambridge, MA: MIT Press, 2018. Available at shelfmark (B) 628.532.

Describes possible technological methods to remove carbon dioxide from the atmosphere, and seeks to estimate the contribution that they could make to fighting climate change.

Hulme, M. *Climate Change*. London: Routledge, 2022. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

Describes the history of climate change as an idea, starting with the emergence of the scientific concept, and moving on to responses in terms of reformism, denialism, radicalism, non-Western thought, art, religion, governance, and futurology.

Johansen, B. E. *Climate Change: an Encyclopedia of science, society and solutions*. Santa Barbara, California: ABC-CLIO, 2017. Available at shelfmark (B) 577.22.

A multi-volume work discussing all the major aspects of climate change.

Katapult Magazine: *99 Maps to Save the Planet*. London: Vintage, 2021. Available digitally in the British Library reading rooms through electronic legal deposit.

A collection of thought provoking infographics showing humanity's impact on the world.

Krauss, L. M. *The Physics of Climate Change*. London: Apollo, 2021. Available digitally in the British Library reading rooms through electronic legal deposit.

Popular work describing the causes and potential effects of climate change from a physicist's perspective, including a detailed description of the causes and processes of the greenhouse effect.

Letcher, T. M. (Ed.) *The Impacts of Climate Change: a comprehensive study of physical, biophysical, social and political issues*. Amsterdam: Elsevier, 2021. Available digitally in the British Library reading rooms through electronic legal deposit.

Academic work describing the likely effects of climate change on both the environment and human society.

Lord, R., S. Goldberg, L. Rajamani, and J. Brunnee, (eds.) *Climate change liability*. Cambridge, UK: Cambridge Univ. Press, 2012. Available at shelfmark SPIS344.046.

A legal discussion of the potential liabilities for damage caused by climate change.

Lovejoy, T. E. and Hannah, L. (Eds.) *Biodiversity and climate change: transforming the biosphere*. New Haven: Yale University Press, 2019. Available at shelfmark (B) 577.22.

Describes the effects of climate change on biodiversity, with case studies on individual regions and species.

Lynas, M. *Our Final Warning: six degrees of climate emergency*. London: 4<sup>th</sup> Estate, 2020. Available digitally in the British Library reading rooms through electronic legal deposit.

Popular work describing the effects of various potential levels of climate change, with anything over 3 degrees Celsius being argued to risk the collapse of human civilisation .

McIntosh, A. *Riders on the Storm: the climate crisis and the survival of being*. Edinburgh: Birlinn. 2020. Available digitally in the British Library reading rooms through electronic legal deposit.

Popular work which discusses the science of climate change, the dangers of denialism and “doomism”, and suggests communal, psychological and spiritual adjustments required to reduce climate change.

Mann, M. E. *The New Climate War: the fight to take back our planet*. Brunswick: Scribe Publications, 2021. Available digitally in the British Library reading rooms through electronic legal deposit.

Popular work by a well-known climate scientist arguing for the feasibility of ending climate change via carbon pricing. It argues that anti-environmentalist forces have moved from outright denial to stressing personal responsibility for lifestyle changes as opposed to systemic change; attacking clean energy sources; and promoting questionable “clean” ways of using fossil fuels. It also criticises climate “doomism” and arguments that catastrophe is now inevitable.

Marzec, R. P. *Militarizing the Environment: Climate Change and the Security State*. Minneapolis: University of Minnesota Press, 2015. Available at shelfmark YC.2016.a.6201.

An criticism of the approach of military institutions to climate change as a threat, and their definitions of security.

Maslin, M. A. *How to Save Our Planet*. London: Penguin Life, 2021. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

A short, punchy work describing the current and future dangers of climate change, and how individuals, businesses and governments need to react to prevent further damage.

Mathez, E. A. and Smerdon, J. E. *Climate Change: the Science of Global Warming and our Energy Future*. New York: Columbia University Press, 2017. Available at shelfmark (B) 551.6.

Describes the effect of energy generation on climate change and the possibility of cleaner energy sources.

Möller, D. *Chemistry of the Climate System*. Berlin: De Gruyter, 2019-2020. Available at shelfmark (B) 551.511

A two-volume work describing the chemical reactions within the Earth's atmosphere and their role in the causes and effects of climate change.

O'Lear, Shannon. *Environmental Geopolitics*. Lanham, MD: Rowman & Littlefield, 2018. Available digitally in the British Library reading rooms through electronic legal deposit. Describes human-environment relations from a viewpoint of geography.

Qu, J., A. Powell, and M. V. K. Sivakumar. *Satellite-based applications on climate change*. Dordrecht, The Netherlands: Springer, 2013. Available in the Science 3 reading room at shelfmark (B) 551.6, or digitally in the Library's reading rooms via the Springer Link ebook collection.

Describes methods used to measure the Earth's atmosphere via satellite observations.

Rabe, B. *Can We Price Carbon?* Cambridge, MA: MIT Press, 2018. Available at shelfmark YC.2019.a.1592.

Describes the political and economic possibilities of carbon pricing and the results of attempts already made to introduce it.

Ruddiman, W. F. *Earth's climate: Past and future*. 3d ed. New York: Freeman, 2013. Available at shelfmark YK.2014.b.7347

A general textbook on the Earth's historical climate placing contemporary climate change in the context of natural cycles.

Scheffran, J., M. Brzoska, H. G. Brauch, P. M. Link, and J. Schilling, eds. *Climate Change, Human Security, and Violent Conflict: Challenges for Societal Stability*. Berlin: Springer-Verlag, 2012. Available at shelfmark 4303.025000, also available as an e-book in the British Library reading rooms via Springer Link.

A comprehensive textbook on the links between climate change and conflict.

Selby, J., and C. Hoffman. *Rethinking Climate Change, Conflict, and Security*. New York: Routledge, 2016. Available digitally in the British Library reading rooms through Non-Print Legal Deposit.

A re-examination of the basic assumptions related to climate change and conflict.

Somero, G. N. *Biochemical Adaptation: response to environmental challenges, from life's origins to the Anthropocene*. Sunderland, Massachusetts: Sinauer Associates, 2016. Available at shelfmark (B) 578.46, also available digitally in the British Library reading rooms through Non-Print Legal Deposit.

A book describing the history of life adapting to changing chemical and climatic conditions on Earth throughout history, concluding with current climate change.

Styring, P., Quadrelli, A., and Armstrong, K., eds. *Carbon Dioxide Utilisation: Closing the Carbon Cycle*. Amsterdam: Elsevier, 2014. Available at shelfmark (B) 665.89.

Styring, P. and North, M., eds. *Carbon Dioxide Utilisation: Transformations*. Berlin; Boston: De Gruyter. 2019. Available at shelfmark (B) 665.89.

A pair of books describing the potential for not merely sequestering carbon dioxide, but using it as a raw material.

Tol, R. *Climate Economics*. Northampton, MA: Edward Elgar, 2014. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

A general textbook on assessing the economic impacts of climate change.

Van Calster, G. and Reins, L. (Eds.) *The Paris Agreement on Climate Change: a commentary*. Cheltenham: Edward Elgar, 2021. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

A detailed description of the structure and content of the Paris Agreement from a legal perspective.

Vandenbergh, M.P. and Gilligan, J. M. *Beyond Politics: the private governance response to climate change*. Cambridge: Cambridge University Press, 2017. Available at YC.2018.a.8767.

Argues that given political failures to create government action, large businesses and third-sector organisations are able to play a greater role in fighting climate change.

Verlie, B. *Learning to Live With Climate Change: from anxiety to transformation*. London: Routledge, 2021. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

Describes the internal psychological and philosophical changes necessary for people to accept climate change and act to reduce it.

Wallace-Wells, D. *The Uninhabitable Earth: a story of the future*. Allen Lane, 2019. Available at shelfmark YC.2019.a.9248, also available electronically in the British Library reading rooms through Non-Print Legal Deposit.

A popular work making clear the likely consequences of continued climate change for human civilisation.

Williams, J. *Climate Change is Racist: race, privilege and the struggle for climate justice*. London: Icon, 2021. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

Describes how systemic racism on the national and international level acts to worsen the effects of climate change, and makes action against it more difficult.

Willis, R. *Too Hot to Handle? The democratic challenge of climate change*. Bristol: Bristol University Press, 2020. Available electronically in the British Library reading rooms through Non-Print Legal Deposit.

The author describes current political issues that hamper the fight against climate change and suggest means of creating consensus and moving forward without suspending democracy or promoting technocracy.

## Journals

*Climate Dynamics*. Available digitally in the Library's reading rooms as Non-Print Legal Deposit by searching Explore for individual articles; also available, with the exception of the last two years' issues, via Proquest Natural Science Collection or Agricultural and Environmental Science Collection.

Publishes papers on observations and modelling of the dynamics of the Earth's climate.

*Climatic Change*. Available digitally in the Library's reading rooms via the Springer Standard Collection.

Focuses exclusively on climate change.

*Global Environmental Change*. Available digitally in the Library's reading rooms as Non-Print Legal Deposit by searching Explore for individual articles.

A journal on environmental changes in general, but with many articles on climate change.

Journal of Atmospheric and Oceanic Technology. Available in the Science 3 reading room at (P) OQ 50 -E(11). Alternatively available digitally in the Library's reading rooms, with the exception of the last two years' issues, via Proquest Natural Science Collection or Agricultural and Environmental Science Collection.

Strong coverage of the methods used to measure climate change.

Journal of Climate. Available in the Science 3 reading room at (P) OP 30 -E(10).

Alternatively available digitally in the Library's reading rooms, with the exception of the last two years' issues, via Proquest Natural Science Collection or Agricultural and Environmental Science Collection.

Covers all aspects of climate, but especially variability, simulation and prediction.

Mitigation and Adaptation Strategies for Global Change. Available digitally in the Library's reading rooms as Non-Print Legal Deposit by searching Explore for individual articles; also available, with the exception of the last year's issues, via Proquest Natural Science Collection or Agricultural and Environmental Science Collection.

Journal specifically on practical responses to climate change.

Nature: Climate Change. Available digitally in the Library's reading rooms as Non-Print Legal Deposit by searching Explore for individual articles; also available, with the exception of the last year's issues, via Proquest Natural Science Collection .

Focuses exclusively on climate change.

## **Databases available only through reading room PCs**

### **Agricultural & Environmental Science Database**

A full-text database covering comprehensive scholarly output and indexing supported by a controlled vocabulary. This database includes AGRICOLA, Aqualine, Ecology Abstracts, EIS, ESPM and Risk Abstracts databases.

### **BioOne Complete**

Search or browse biological, ecological and environmental sciences journals.

NB: Reader Pass holders can access this resource on a personal device.

### **CAB Abstracts**

Bibliographic database compiled by CAB International. Covers literature in the fields of agriculture, forestry, human health, nutrition, animal health, and the management and conservation of natural resources. Includes selected full text documents from the CABI Full Text Database. Coverage: 1910 to date.

### **Natural Science Collection**

This collection provides access to a wide range of research in biomedicine, biotechnology, zoology, ecology, and some aspects of agriculture and veterinary science. Contains citations, abstracts and links to full text articles where available.

## **Recordings available only through reading room PCs**

Freak Weather in History. British Library Events. Shelfmark C927/1887.

Contributors to The Guardian Weatherwatch column reflect on ways our weather and climate have fluctuated wildly throughout history, sometimes wiping out entire civilisations.

Under Her Eye: Women and Climate Change. British Library Events. Shelfmark C927/1938

A series of talks and discussions on how climate change affects women.