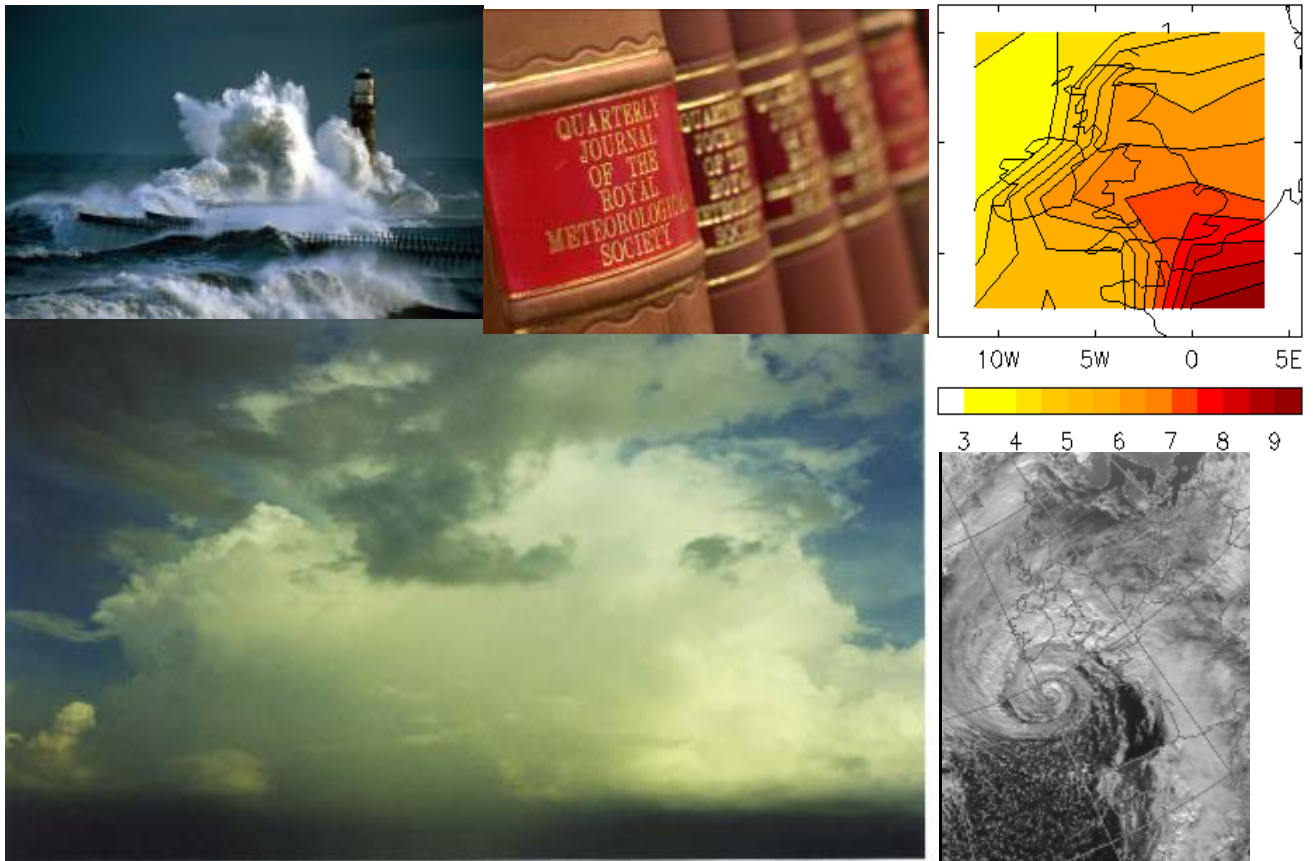




Subject Guide No. 2 –

Our changing climate: books and articles on climate change



Updated February 2008

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Our changing climate: books and articles on climate change in the National Meteorological Library & Archive

People have been writing about the potential warming effects of increasing Carbon Dioxide in the atmosphere since the nineteenth century. French mathematician Jean-Baptiste Fourier is the first to be credited with describing the 'greenhouse effect' in 1824; our collection includes subsequent papers by Tyndall, Arrhenius and Callendar (see below).

There is now a vast and expanding academic literature on climate change science, reflecting growing concern from scientists, governments and people worldwide about global warming. These range from technical papers by the world's leading climate scientists to books and articles of more general interest. The following is only a selection; it is intended to capture some of the key texts and provide a stimulus for further interest and research.

Because of the range of material we have split references in this guide into the following sections:

1. A general introduction
2. Historical perspectives and key early articles
3. The global warming debate
4. The IPCC and other recent major reports
5. Recording, predicting and modelling climate change
6. Impacts, adaptation and mitigation
7. Journals covering climate change science

Readers may also find the following links useful:

- Met Office publications, including those by the Hadley Centre for Climate Change: <http://www.metoffice.gov.uk/publications/index.html>
- Hadley Centre publications: <http://www.metoffice.gov.uk/publications/climate-change.html>
- Latest climate change related news and events: <http://www.metoffice.gov.uk/corporate/pressoffice/climatechange.html>

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Books and pamphlets may be available for loan.

Articles from **JOURNALS** are generally for reference only, audio visual items may be for restricted loan only

For a general introduction

Allaby, M.

A change in the weather. (Dangerous Weather Series)

New York, Facts on File, 2004. ISBN: 0816047901

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Record number: 938296

Burroughs, W. (ed.)

Climate into the 21st century

Cambridge University Press, 2003 (for the World Meteorological Organization).

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Dow, K.

The atlas of climate change: mapping the world's greatest challenge.

London, Earthscan, 2006.

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Drake, F.

Global warming: the science of climate change.

London, Arnold, 2000. ISBN: 0340653027

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Record number: 268912

Eden, P.

Change in the weather: weather extremes and the British climate.

London, Continuum, 2005. ISBN: 0826479731

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Record number: 956001

Evans, K.

Funny weather: everything you didn't want to know about climate change but probably should find out.

Brighton, Myriad Editions, 2006. ISBN: 0954930932

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Flannery, T.

The weather makers: the history and future impact of climate change.

London, Penguin Books, 2005. ISBN: 0713999217

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Godrej, D

The No-Nonsense Guide to Climate Change

Verso, 2001. ISBN: 1859843352

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Gore, A.

An inconvenient truth: the planetary emergency of global warming and what we can do about it.

London, Bloomsbury, 2006. ISBN: 0747589062

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An inconvenient truth: a global warning.

Paramount Pictures, 2006

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Record number: 987607

Hadley Centre for Climate Prediction and Research

Department for Environment, Food and Rural Affairs

Climate change and the greenhouse effect. A briefing from the Hadley Centre.

Exeter, Met Office, 2005

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Hadley Centre for Climate Prediction and Research

Department for Environment, Food and Rural Affairs

Climate change, rivers and rainfall. Recent research on climate change science from the Hadley Centre.

Exeter, Met Office, 2005

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Hadley Centre for Climate Prediction and Research

Uncertainty, risk and dangerous climate change: recent research on climate change science

Met Office, December 2004

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Henson, R.

The rough guide to climate change: the symptoms, the science, the solutions.

Publication info: London, Rough Guides, 2006. ISBN: 1843537117

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Record number: 973749

Houghton, J.T

Global warming: the complete briefing.

Cambridge University Press, 2004

Edition: 3rd edition

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Karas, J.H.W. and Kelly, P.M.

The heat trap. The threat posed by rising levels of greenhouse gases.

London, Friends of the Earth, 1988. ISBN: 0905966678

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The winds of change: climate, weather, and the destruction of civilizations.

New York, Simon & Schuster, 2006. ISBN: 0684863529

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Maslin, M.

Global warming: a very short introduction.

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Global climate change.

New York, H.W. Wilson, 2006. ISBN: 082421059X

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Weather, climate and climate change: human perspectives.

Harlow, Pearson Education, 2005. ISBN: 0130283193

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Ruddiman, W.F.

Plows, plagues and petroleum: how humans took control of climate.

Princeton, New Jersey, Princeton University Press, 2005. ISBN: 0691121648

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Schlesinger, M.E. (ed.), Kheshgi, H.S. (ed.), Smith, J. (ed.) and others

Human induced climate change: an interdisciplinary assessment.

Cambridge, Cambridge University Press, 2007. ISBN: 9780521866033

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Seinfeld, J.H., Pandis, S.N.

Atmospheric chemistry and physics: from air pollution to climate change.

New York, John Wiley and Sons, 2006. ISBN: 0471720178

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Global warming and global cooling: evolution of climate on Earth.
Amsterdam, Elsevier, 2007. ISBN: 9780444528155

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The change in the weather. People, weather, and the science of climate.
New York, Delacorte Press, 1999. ISBN: 0385320124

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The whale and the supercomputer: on the northern front of climate change.
New York, North Point Press, 2004. ISBN: 0865476594

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On the influence of carbonic acid in the air upon the temperature of the ground.
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Callendar, G.S.
The artificial production of carbon dioxide and its influence on temperature.
Quarterly Journal of the Royal Meteorological Society, VOL 64 NO. 275, 1938, pp.223-237
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Tyndall, J.
On the absorption and radiation of heat by gaseous matter. Second memoir.
Philosophical Transactions of the Royal Society of London: London, Royal Society, 1862
Held in the Royal Meteorological Society Collection.

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A history of the science and politics of climate change. The role of the Intergovernmental Panel on Climate Change.

Cambridge, Cambridge University Press, 2007. ISBN: 9780521880824

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Fleming, J.R.

Historical perspectives on climate change.

New York, Oxford University Press, 1998. ISBN: 0195078705

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Fleming, J.R.

The Callendar effect. The life and work of Guy Stewart Callendar (1898-1964): the scientist who established the carbon dioxide theory of climate change

Boston, Mass., Am.Met.Soc., 2007. ISBN: 9781878220769

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Handel, M.D., Risbey, J.S.

An annotated bibliography on the greenhouse effect and climate change.

Climatic Change, Vol. 21 No. 2, 1992 pp.97-255

Abstract:... *We present here an annotated bibliography on issues relating to changes in the concentrations of Earth's greenhouse gases. The areas covered include theory and numerical modelling of climate change; cycles involving carbon dioxide and other radiatively important trace gases; observations of climate change and the problems associated with those observations; paleoclimatology as it relates to previous changes in the greenhouse gases; the impacts on the interactions with managed and natural ecosystems from climate change; policy issues related to climate change and to the limitation of climate change; history of the study of the greenhouse effect; and some other causes of climate change.*

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Jones, P.D.,Ogilvie, A.E.J.,Davies, T.D. Briffa, K.R., (eds)

History and climate: memories of the future?

New York, Kluwer Academic Publishers, 2001. ISBN: 0306465892

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Von Storch, H.

Anthropogenic climate change: a reason for concern since the 18th century and earlier.

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Aldhous, P.

Global warming: the buck stops here.

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Climate change: supporting action through science.

Meteorological Service of Canada 2005

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Cox, J.D.

Climate crash: abrupt climate change and what it means for our future.

Washington, Joseph Henry Press, 2005. ISBN: 0309093120

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Record number: 953538

Dessler, A.E. and Parson, E.A.

The science and politics of global climate change: a guide to the debate.

Cambridge, Cambridge University Press, 2006. ISBN: 0521539412

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Graham-Rowe, D.

Silencing the climate sceptics.

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Hanson, C.E., Palutikof, J.P., Dlugolecki, A. and others

Bridging the gap between science and the stakeholder: the case of climate change research.

Climate Research, VOL. 31 NO. 1, 2006 pp.121-133

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Another global warming icon comes under attack.
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It's official: humans are behind most of global warming.
Science, VOL. 291 NO. 5504, 2001 p.566

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Kerr, R.A.
Climate modelers see scorching future as a real possibility.
Science, VOL. 307 NO. 5709, 2005 p.497

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Climate change: a natural hazard.
Brentwood, Essex, Multi-Science Publishing, 2004. ISBN: 0906522269

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Lorenzoni, I. Author: Pidgeon, N.F.
Public views on climate change: European and USA perspectives.
Climatic Change, VOL. 77 NO. 1-2, 2006 pp.73-95

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Merali, Z.
Sceptics forced into climate climbdown.
New Scientist, VOL. 187 NO. 2513, 2005, p.10

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Climate change 2001.
Weather (R.Met.Soc.), VOL. 58 NO. 8, 2003 pp.311-313
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Nature, VOL. 438 NO. 7066, 2005 p.285

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Pearce, F.
Climate evidence finds us guilty as charged.
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Schiermeier, Q.
No solar hiding place for greenhouse sceptics.
Nature, VOL. 448 NO. 7149, 2007 pp.8-9

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Weart, S.P.
The discovery of global warming: new histories of science, technology, and medicine.
London, Harvard University Press 2003. ISBN: 0674011570

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Record number: 906911

The IPCC and other recent major reports

Albritton, D.L. (ed.), and others (ed.)
Climate change 2001: the scientific basis. Summary for policymakers and technical summary of the working group I report.

Cambridge University Press, 2001
Part of the Working Group I contribution to the third assessment report of the Intergovernmental Panel on Climate Change.

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Houghton, J.T. (ed.), Griggs, D.J. (ed.), and others (ed.)
Climate change 2001: the scientific basis.
Cambridge University Press, 2001
Contribution of Working Group I to the third assessment report of the Intergovernmental Panel on Climate Change.

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McCarthy, J.J. (ed.), Canziani, O.F. (ed.), Leary, N.A. (ed.), Dokken, D.J. (ed.), White, K.S. (ed.)

Climate change 2001: impacts, adaptation, and vulnerability.

Cambridge University Press, 2001

Contribution of Working Group II to the third assessment report of the Intergovernmental Panel on Climate Change.

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Record number: 278869

Metz, B. (ed.), Davidson, O. (ed.), Bosch, P. (ed.) and others

Intergovernmental Panel on Climate Change

Climate change 2007: mitigation of climate change.

Cambridge, Cambridge University Press, 2007. ISBN: 9780521880114

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Record number: 996660

Metz, B. (ed.), Davidson, O. (ed.), Swart, R. (ed.), Pan, J. (ed.)

Climate change 2001: mitigation.

Cambridge University Press, 2001

Contribution of Working Group III to the third assessment report of the Intergovernmental Panel on Climate Change.

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Schellnhuber, H.J., Cramer, W., Nakicenovic, N., Wigley, T., and Yohe, G., (eds)

Avoiding dangerous climate change.

Cambridge, Cambridge University Press, 2006. ISBN: 0521864712

Based on the findings of the International Symposium on Stabilisation of Greenhouse Gas Concentrations, Avoiding Dangerous Climate Change, Met Office, Exeter, 1-3 February, 2005.

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Record number: 966440

Solomon, S. (ed.), Qin, D. (ed.), Manning, M. (ed.) and others

Intergovernmental Panel on Climate Change

Climate change 2007: the physical science basis.

Cambridge, Cambridge University Press, 2007. ISBN: 9780521880091

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Stern, N.

The economics of climate change: the Stern review.

Cambridge, Cambridge University Press, 2007. ISBN: 0521700809

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Stern, N.

The economics of climate change. Executive summary of the Stern Review.

London, HMSO, 2006

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Stern review: The economics of climate change

Available at:

http://webarchive.nationalarchives.gov.uk/+http://www.hm-treasury.gov.uk/independent_reviews/stern_review_economics_climate_change/sternreview_index.cfm

Watson, R.T. (ed.) and others (ed.), Cambridge University Press, 2001

Climate change 2001: synthesis report.

Contribution of Working Groups I, II, and III to the third assessment report of the Intergovernmental Panel on Climate Change.

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Archer, D.

Global warming: understanding the forecast.

Oxford, Blackwell Publishing, 2007

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Bony, S., Colman, R., Kattsov, V.M. and others

How well do we understand and evaluate climate change feedback processes?

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Climate reconstruction by regression - 32 variations on a theme.

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Future change of precipitation extremes in Europe. Intercomparison of scenarios from regional climate models.

Journal of Geophysical Research (Atmospheres), VOL. 111 NO. D6, 2006 D06105

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Furgal, C.M., Fletcher, C., Dickson, C.

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Ways of knowing and understanding: towards the convergence of traditional and scientific knowledge of climate change in the Canadian north.

Toronto, Environment Canada, 2006

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Giorgi, F.

Climate change hot-spots.

Geophysical Research Letters, VOL. 33 NO. 8, 2006 L08707

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Estimates of uncertainty in predictions of global mean surface temperature.

Journal of Climate, VOL. 20 NO. 5, 2007

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Understanding projections of sea level rise in a Hadley Centre coupled climate model.

Journal of Geophysical Research (Oceans), VOL. 111 NO. C11, 2006. C11014

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Climate change and hazards prediction in the Black Sea region.

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Indices for daily temperature and precipitation extremes in Europe analyzed for the period 1901-2000.

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Rowell, D.P.

A demonstration of the uncertainty in projections of UK climate change resulting from regional model formulation.

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Shen, S.S.P.

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Transient climate simulations with the HadGEM1 climate model: causes of past warming and future climate change.

Journal of Climate, VOL. 19 NO. 12, 2006 pp.2763-2782

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Surface temperature reconstructions for the last 2000 years.

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Impacts, adaptation and mitigation

Climate Clinic

The Climate Clinic is a conference within a conference. It's where party leaders, ministers, renowned scientists, opinion formers, environmentalists, low-carbon associations, business leaders and the public come together to debate the issues, spotlight the solutions and press for urgent action and vigorous political leadership.

<http://www.climateclinic.org/>

Adger, W.N. (ed.), Paavola, J. (ed.), Huq, S. (ed.), Mace, M.J. (ed.)

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Cambridge, Mass., MIT Press, 2006. ISBN: 0262511932

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Global observed changes in daily climate extremes of temperature and precipitation.

Journal of Geophysical Research (Atmospheres), VOL. 111 NO. D5, 2006 D05109

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Climate change and cultural dynamics: a global perspective on mid-Holocene transitions.

Amsterdam, Academic Press, 2007. ISBN: 9780120883905

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How does climate change affect biodiversity?

Science, VOL. 313 NO. 5792, 2006 pp.1396-1397

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Storm tracks and climate change.

Journal of Climate, VOL. 19 NO. 15, 2006 pp.3518-3543

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Learning to adapt: organisational adaptation to climate change impacts.

Climatic Change, VOL. 78 NO. 1, 2006 pp.135-156

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Tropical rainforest responses to climatic change.

Berlin, Springer/Praxis, 2007. ISBN: 3540239081

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Terrestrial ecosystem in a changing world. The IGBP series.
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Global warming and agriculture: impact estimates by country.
Washington, US Center for Global Development/Peterson Institute for International Economics, 2007

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London, Pluto Press, 2007. ISBN: 9780745325682

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Journals covering climate change science

The National Meteorological Library's journal collection includes the following titles devoted entirely to the topic (shelved in alphabetical order by title at the shelfmark [JOURNALS](#)).

Climate Dynamics (ISSN: 0930-7575)

Published by Heidelberg, Springer
Vol. 1-2 1987-88 - onwards

Climate Monitor (ISSN: 0140-458X)

Published by University of East Anglia, Climatic Research Unit

Climate Research (ISSN: 0936-577X)

Published by Inter-Research

Climatic Change (ISSN: 0165-0009)

Published by Kluwer Academic Publishers

Global and Planetary Change (ISSN: 0921-8181)

Published by Elsevier

Global Environmental Change Report

Published by Cutter Information Corp. (current two years only retained)

International Journal of Climatology (ISSN: 0899-8418)

Published by Wiley for the Royal Meteorological Society

Japanese Progress in Climatology

Published by Japan Climatology Seminar

Journal of Climate (ISSN: 0894-8755)

Published by American Meteorological Society

Palaeogeography, Palaeoclimatology, Palaeoecology (ISSN: 0031-0182)

Published by Elsevier

Quaternary Research (ISSN: 0033-5894)

Published by Academic Press (this journal tends to focus more widely than it's title suggests)

World Climate Review

Published by Charlottesville, Va., Univ. Virginia, Dep. Environ. Sci.

The [mainstream science press](#) is also an excellent source of often groundbreaking articles:

Nature (ISSN: 0028-0836)

Published by London, Nature Publishing Group

New Scientist (ISSN: 0262-4079)

Published by London, Reed Business Information

Science (ISSN: 0036-8075)

Publication: American Association for the Advancement of Science

The **'standard' meteorological journals** are also increasingly covering this area, for example their in-depth studies of the extreme weather events which are likely to become more frequent in a warmer world, such as the extremely high temperatures in Europe during summer 2003. A selection of titles are given here:

Journal of Geophysical Research (ISSN: 0148-0227)

Published by American Geophysical Union (split into different sections from late 1970s onwards)

Journal of Meteorology (ISSN: 0307-5966)

Published by Artetech (for TORRO – Tornado and Storm Research Organisation)

Quarterly Journal of the Royal Meteorological Society (ISSN: 0035-9009)

Published by the Royal Meteorological Society

Weather (ISSN: 0043-1656)

Published by the Royal Meteorological Society

Weather and Forecasting (ISSN: 0882-8156)

Published by American Meteorological Society

Weather Eye

Published by Frosted Earth

Weatherwise (ISSN: 0043-1672)

Published by Washington, Heldref Publications

Vol. 1 1948 - onward

There are many journal titles also covering related fields, such as **atmospheric pollution and its influence on weather and climate**

Atmospheric Environment (ISSN: 1352-2310)

Published by Pergamon

Clean Air (ISSN: 0300-5734)

Published by National Society for Clean Air and Environmental Protection

Journal of Aerosol Science (ISSN: 0021-8502)

Published by Pergamon

Vol. 2 No. 2 1971 – onwards

Journal of the Air and Waste Management Association (ISSN: 1047-3289)

Published by Air and Waste Management Association

An area of growing interest is **oceanography** – both the interaction between the ocean and the atmosphere and the threat of rising sea levels; below is a selection of key titles:

Journal of Oceanography (ISSN: 0916-8370)

Published by Tokyo, Terra Scientific Publishing Co. for the Oceanographic Society of Japan

Journal of Physical Oceanography (ISSN: 0022-3670)

Published by American Meteorological Society

Ocean Dynamics (ISSN: 1616-7341)

Published by Springer-Verlag

Ocean Modelling (ISSN: 1453-5003)

Published by ICSU, SCOR then Elsevier

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