

THIS IS THE TEXT OF A BIBLIOGRAPHY IN THE WEB SITE “*THE DISCOVERY OF GLOBAL WARMING*” BY SPENCER WEART, <https://history.aip.org/climate>. **APRIL 2024**. HYPERLINKS WITHIN THAT SITE ARE NOT INCLUDED IN THIS FILE. FOR AN OVERVIEW SEE THE BOOK OF THE SAME TITLE (HARVARD UNIV. PRESS, REV. ED. 2008). COPYRIGHT © 2003-2024 SPENCER WEART & AMERICAN INSTITUTE OF PHYSICS.

## **Bibliography Part I: A-K**

This bibliography may seem long (more than 3000 items), but it has a great many omissions. The IPCC reports at <https://ipcc.ch> have far more complete bibliographies. Nearly all, but not all, of the items below are referenced somewhere in these essays. N.b. this bibliography omits many referenced items which appeared on the Web but not in print. Most are available only through URLs that are sometimes unfortunately ephemeral. Clever searching may be able to find them under another URL.

Abbreviations used in the notes in the essays:

AIP: Niels Bohr Library at the American Institute of Physics, College Park, MD

LDEO: Lamont-Doherty Earth Observatory, Palisades, NY

SIO: Scripps Institution of Oceanography Archives, La Jolla, CA

Abarbanel, Albert, and Thomas McCluskey (1950). “Is the World Getting Warmer?” *Saturday Evening Post* **223**, (1 July), pp. 22-23, 57-63.

Abatzoglou, John T., and A. Park Williams (2016). “Impact of Anthropogenic Climate Change on Wildfire across Western US Forests.” *Proceedings of the National Academy of Sciences* **113**: 11770-75 [doi.org/10.1073/pnas.1607171113].

Abbott, Benjamin W., et al. (2016). “Biomass Offsets Little or None of Permafrost Carbon Release from Soils, Streams, and Wildfire: An Expert Assessment.” *Environmental Research Letters* **11**: 034014 [doi:10.1088-1748-9326-11-3-034014].

Abbot, Charles G., and F.E. Fowle, Jr. (1908). “Income and Outgo of Heat from the Earth, and the Dependence of Its Temperature Thereon.” *Annals of the Astrophysical Observatory (Smithsonian Institution, Washington DC)* **2**: 159-176.

Abbot, Charles G., and F.E. Fowle, Jr. (1913). “Volcanoes and Climate.” *Smithsonian Miscellaneous Collections* **60**: 1-24.

Abbot, Charles G. (1967). “Precipitation in Five Continents.” *Smithsonian Miscellaneous Collections* **151**.

Abelmann, Andrea, et al. (2006). “Extensive Phytoplankton Blooms in the Atlantic Sector of the Glacial Southern Ocean.” *Paleoceanography* **21**: PA1013 [doi:10.1029/2005PA001199, 2006].

Abelson, P.H. (1977). “Energy and Climate.” *Science* **197**: 941.

Abe-Ouchi, Ayako, et al. (2013). “Insolation-Driven 100,000-Year Glacial Cycles and

- Hysteresis of Ice-Sheet Volume.” *Nature* **500**: 190-93 [doi:10.1038/nature12374].
- Abel, Guy J., et al. (2019). “Climate, Conflict and Forced Migration.” *Global Environmental Change* **54**: 239-49 [https://doi.org/10.1016/j.gloenvcha.2018.12.003].
- Abetti, Giorgio (1957). *The Sun*. New York: Macmillan.
- Abraham, J.P., et al. (2013). “A Review of Global Ocean Temperature Observations: Implications for Ocean Heat Content Estimates and Climate Change.” *Reviews of Geophysics* **51**: 450-83 [doi: 10.1002/rog.20022].
- Abrams, Jesse F., et al. (2023). “Committed Global Warming Risks Triggering Multiple Climate Tipping Points.” *Earth’s Future* **11**: e2022EF003250 [doi.org/10.1029/2022EF003250].
- Achermann, Dania (2020). “Vertical Glaciology: The Second Discovery of the Third Dimension in Climate Research.” *Centaurus* **62**: 720-43 [doi.org/10.1111/1600-0498.12294], online at <https://onlinelibrary.wiley.com/doi/full/10.1111/1600-0498.12294>.
- Ackerman, Andrew S., et al. (2000). “Effects of Aerosols on Cloud Albedo: Evaluation of Twomey’s Parameters of Cloud Susceptibility Using Measurements of Ship Tracks.” *J. Atmospheric Sciences* **57**: 2684-95.
- Ackerman, Frank, et al. (2009). “Limitations of Integrated Assessment Models of Climate Change.” *Climatic change* **95**: 297-315 [doi:10.1007/s10584-009-9570-x].
- Adabashev, I. (1966). *Global Engineering*. Moscow: Progress.
- Adem, Julian (1965). “Experiments Aiming at Monthly and Seasonal Numerical Weather Prediction.” *Monthly Weather Review* **93**: 495-503.
- Adler, Jerry (2007). “Moment of Truth.” *Newsweek* (April 16), pp. 45-48.
- Ager, Derek (1993). *The New Catastrophism: The Importance of the Rare Event in Geological History*. Cambridge: Cambridge University Press.
- Agrawala, Shardul (1997). *Explaining the Evolution of the IPCC Structure and Process*. ENRP Discussion Paper E-97-05., Cambridge, MA, Kennedy School of Government, Harvard University.
- Agrawala, Shardul (1998a). “Context and Early Origins of the Intergovernmental Panel for Climate Change.” *Climatic Change* **39**: 605-20.
- Agrawala, Shardul (1998b). “Structural and Process History of the Intergovernmental Panel for Climate Change.” *Climatic Change* **39**: 621-42.

- Agrawala, Shardul (1999a). "Early Science-Policy Interactions in Global Climate Change: Lessons from the Advisory Group on Greenhouse Gases." *Global Environmental Change* **9**: 157-69.
- Agrawala, Shardul (1999b). *Science Advisory Mechanisms in Multilateral Decisionmaking: Three Models from the Global Climate Change Regime*. Diss., Princeton University:
- Ahlmann, H.W. (1952). "Glacier Variations and Climatic Fluctuations." *Bowman Memorial Lectures, American Geographical Society* **Ser. 3, no. 1**.
- Ahmed, Moinuddin, et al. (2013). "Continental-Scale Temperature Variability During the Past Two Millennia." *Nature Geoscience* **6**: 339-46 [doi:10.1038/ngeo1797].
- Ai, Xuyuan E., et al. (2020). "Southern Ocean Upwelling, Earth's Obliquity, and Glacial-Interglacial Atmospheric CO<sub>2</sub> Change" *Science* **370**: 1348-52 [doi:10.1126/science.abd2115].
- Aitken, A. R. A., et al. (2016). "Repeated Large-Scale Retreat and Advance of Totten Glacier Indicated by Inland Bed Erosion." *Nature* **533**: 385-89 [doi:10.1038/nature17447].
- Aklin, Michaël, and Matto Mildenerger (2020). "Prisoners of the Wrong Dilemma: Why Distributive Conflict, Not Collective Action, Characterizes the Politics of Climate Change." *Global Environmental Politics* **20**: 4-27 [doi:10.1162/glep\_a\_00578].
- Albrecht, Bruce A. (1989). "Aerosols, Cloud Microphysics, and Fractional Cloudiness." *Science* **245**: 1227-30.
- Aldrich, L.B., and W.H. Hoover (1954). "*Annals of the Astrophysical Observatory, Smithsonian Institution* **7**: 1-184.
- Alexander, Tom (1974). "Ominous Changes in the World's Weather." *Fortune* **89**, no. 2 (Feb.), pp. 90-95, 142-52.
- Allen, M. (2003). "Liability for Climate Change." *Nature* **421**: 891-892 [doi:10.1038/421891a].
- Allen, M.R., et al. (2006). "Quantifying Anthropogenic Influence on Recent near-Surface Temperature Change." *Surveys in Geophysics* **27**: 491-544 [doi:10.1007/s10712-006-9011-6].
- Allen, Myles R., et al. (2009). "Warming Caused by Cumulative Carbon Emissions Towards the Trillionth Tonne." *Nature* **458**: 1163-66 [doi:10.1038/nature08019].
- Allen, Robert J., and Steven C. Sherwood (2008). "Warming Maximum in the Tropical Upper Troposphere Deduced from Thermal Wind." *Nature Geoscience* **1**: 399 403 [doi:10.1038/ngeo208].

- Alley, Richard B., et al. (1993). "Abrupt Increase in Snow Accumulation at the End of the Younger Dryas Event." *Nature* **362**: 527-29.
- Alley, Richard B., et al. (1995). "Comparison of Deep Ice Cores." *Nature* **373**: 393-94.
- Alley, Richard B. (1998). "Palaeoclimatology: Icing the North Atlantic." *Nature* **392**: 335-37.
- Alley, Richard B., and Peter U. Clark (1999). "The Deglaciation of the Northern Hemisphere: A Global Perspective." *Annual Review of Earth and Planetary Sciences* **27**: 149-82
- Alley, Richard B. (2000). *The Two-Mile Time Machine*. Princeton, NJ: Princeton University Press.
- Alley, R.B., et al. (2003). "Abrupt Climate Change." *Science* **299**: 205-10  
[doi:10.1126/science.1081056].
- Alley, Richard B., et al. (2005). "Ice-Sheet and Sea-Level Changes." *Science* **310**: 456-60  
[doi:10.1126/science.1114613].
- Alley, Richard B., et al. (2020). "Twenty-First Century Sea-Level Rise Could Exceed IPCC Projections for Strong-Warming Futures." *One Earth* **3**: 691-703  
[doi.org/10.1016/j.oneear.2020.11.002].
- Alvarez, Luis W., et al. (1980). "Extraterrestrial Cause for the Cretaceous-Tertiary Extinction." *Science* **208**: 1095-1108.
- Alvarez, Ramón A., et al. (2018). "Assessment of Methane Emissions from the U.S. Oil and Gas Supply Chain." *Science* **361**: 186-88 [doi:10.1126/science.aar7204]
- Alvarez, Walter, et al. (1984). "The End of the Cretaceous: Sharp Boundary or Gradual Transition?" *Science* **223**: 1183-86.
- American Geophysical Union (1999). "Position Statement Adopted on Climate Change and Greenhouse Gases." *Eos, Transactions of the American Geophysical Union* **80**: 49.
- American Meteorological Society (2013). "Explaining Extreme Events of 2012 from a Climate Perspective, Special Supplement." *Bulletin of the American Meteorological Society* **Vol. 94**, No. 9.
- American Meteorological Society (Herring, S. C., et al., eds.) (2018). "Explaining Extreme Events of 2016 from a Climate Perspective." *Bulletin of the American Meteorological Society* **99**: S1-S157, online at <https://www.ametsoc.org/ams/index.cfm/publications/bulletin-of-the-american-meteorological-society-bams/explaining-extreme-events-from-a-climate-perspective/>.

- American Psychological Association, Task Force on the Interface Between Psychology and Global Climate Change (2010). *Psychology and Global Climate Change: Addressing a Multi-Faceted Phenomenon and Set of Challenges*.  
<http://www.apa.org/science/about/publications/climate-change.aspx>.
- Anagnostou, Eleni, et al. (2016). "Changing Atmospheric CO<sub>2</sub> Concentration Was the Primary Driver of Early Cenozoic Climate." *Nature* **533**: 380-84 [doi:10.1038/nature17423].
- Andela, N., et al. (2017). "A Human-Driven Decline in Global Burned Area." *Science* **356**: 1356-62 [doi:10.1126/science.aal4108].
- Anderegg, William R. L., et al. (2010). "Expert Credibility in Climate Change." *Proceedings of the National Academy of Sciences* **107**: [doi:10.1073/pnas.1003187107].
- Anderegg, William R. L., et al. (2015). "Tropical Nighttime Warming as a Dominant Driver of Variability in the Terrestrial Carbon Sink." *Proceedings of the National Academy of Sciences* **112**: 15591-96 [doi:10.1073/pnas.1521479112].
- Anderegg, William R. L., et al. (2021). "Anthropogenic Climate Change Is Worsening North American Pollen Seasons." *Publications of the National Academy of Sciences* **118**: e2013284118 [doi.org/10.1073/pnas.2013284118].
- Anderson, Christopher (1992). "How Much Green in the Greenhouse?" *Nature* **356**: 369.
- Anderson, Kurt (2020). *Evil Geniuses. The Unmaking of America: A Recent History*. New York: Random House.
- Anderson, Neil R., and Alexander Malahoff (1977) *The Fate of Fossil Fuel CO<sub>2</sub> in the Oceans*. New York: Plenum.
- Andersen, S.O., et al. (2022). "Setting the Stage for Climate Action under the Montreal Protocol." *Eos, Transactions of the American Geophysical Union* **103** (18 Oct.) [doi.org/10.1029/2022EO220496].
- Anderson, Theodore L., et al. (2003). "Climate Forcing by Aerosols -- a Hazy Picture." *Science* **300**: 1103-04.
- Andersson, G. (1902). "Hasseln I Sverige Fordom Och Nu." *Sveriges Geoliska Undersökning, Afhand* **C2**.
- Andreae, Meinrat O. (1996). "Raising Dust in the Greenhouse." *Nature* **380**: 389-90.
- Andreae, Meinrat O. (2001). "The Dark Side of Aerosols." *Nature* **409**: 671-72.
- Andreae, Meinrat O., et al. (2005). "Strong Present-Day Aerosol Cooling Implies a Hot Future."

- Nature* **435**: 1187-90 [doi:10.1038/nature03671].
- Andreassen, K., et al. (2017). "Massive Blow-out Craters Formed by Hydrate-Controlled Methane Expulsion from the Arctic Seafloor." *Science* **356**: 948-53 [doi:10.1126/science.aal4500].
- Andresen, Steinar, and Shardul Agrawala (2002). "Leaders, Pushers and Laggards in the Making of the Climate Regime." *Global Environmental Change* **12**: 41-51.
- Andrews, John T. (2006). "Glaciers, Oceans, Atmosphere and Climate." In *Glacier Science and Environmental Change*, edited by Knight, Peter G., pp. 96-113. Malden, MA: Blackwell.
- Andrews, T., et al. (2012). "Forcing, Feedbacks and Climate Sensitivity in CMIP5 Coupled Atmosphere-Ocean Climate Models." *Geophysical Research Letters* **39**: L09712 [doi:10.1029/2012GL051607].
- Andrist, Ralph K. (1960). "Footprints of the Great Ice." *American Heritage* **11**.
- Ångström, Anders (1922). "Solar Constant, Sun-Spots, and Solar Activity." *Astrophysical J.* **55**: 24-29.
- Ångström, Anders (1929). "*Geografiska Annaler* **11**: 156-.
- Ångström, Anders (1970). "Apparent Solar Constant Variations and Their Relation to the Variability of Atmospheric Transmission." *Tellus* **22**: 205-18.
- Ångström, Knut (1900). "Über Die Bedeutung Des Wasserdampfes Und Der Kohlensäures Bei Der Absorption Der Erdatmosphäre." *Annalen der Physik* **4**: 720-32.
- Annan, James D. , and Julia C. Hargreaves (2006). "Using Multiple Observationally-Based Constraints to Estimate Climate Sensitivity." *Geophysical Research Letters* **33**: L06704 [doi:10.1029/2005GL025259].
- Anthes, Richard (1986). "Summary of Workshop on the NCAR Community Climate/Forecast Models, 14-26 July 1985, Boulder, Colorado." *Bulletin of the American Meteorological Society* **67**: 194-98.
- Antilla, Liisa (2005). "Climate of Scepticism: US Newspaper Coverage of the Science of Climate Change." *Global Environmental Change* **15**: 338-52.
- Antilla, Liisa (2008). "Self-Censorship and Science: A Geographical Review of Media Coverage of Climate Tipping Points." *Public Understanding of Science* **1**: 1-17.
- Appenzeller, Tim (1991). "Fire and Ice under the Deep-Sea Floor." *Science* **252**: 1790-92.

- Appenzeller, Tim, and Dennis R. Dimick (2004). "The Heat Is On." *National Geographic* **206**, no. 3 (Sept.), pp. 12-75.
- Arakawa, Akio (1966). "Computational Design for Long-Term Numerical Integration of the Equations of Fluid Motion: Two-Dimensional Incompressible Flow. Part I." *J. Computational Physics* **1**: 119-43 (reprinted *J. Comp. Phys.* (1997) **135**:103-14).
- Arakawa, Akio (1970). "Numerical Simulation of Large-Scale Atmospheric Motions." In *Numerical Solution of Field Problems in Continuum Physics (SIAM-AMS Conference)*, Vol. **2**, pp. 24-40. Providence, RI: American Mathematical Society.
- Arakawa, Akio, and Wayne Howard Schubert (1974). "Interaction of a Cumulus Cloud Ensemble with the Large-Scale Environment, Part I." *J. Atmospheric Sciences* **31**: 674-701.
- Arakawa, Akio, et al. (1994). "Yale Mintz, Atmospheric Sciences: Los Angeles." In *University of California: In Memoriam, 1993*, Oakland, CA: University of California Senate
- Arakawa, Akio (2000). "A Personal Perspective on the Early Years of General Circulation Modeling at UCLA." In *General Circulation Model Development*, edited by Randall, David A., pp. 1-65. San Diego, CA: Academic Press.
- Archer, D., and B. Buffett (2005). "Time-Dependent Response of the Global Ocean Clathrate Reservoir to Climatic and Anthropogenic Forcing." *Geochemistry, Geophysics and Geosystems* **6**: Q03002 [doi:10.1029/2004GC000854].
- Archer, David, and Raymond T. Pierrehumbert (2011) *The Warming Papers: The Scientific Foundation for the Climate Change Forecast*. Hoboken, NJ: Wiley-Blackwell.
- Ardanuy, P.E., et al. (1992). "Evidence of Sun-Climate-Greenhouse Gas Connections over the Last Decade." *Eos, Transactions of the American Geophysical Union* **73**: 245.
- Armour, Kyle C. (2016). "Projection and Prediction: Climate Sensitivity on the Rise." *Nature Climate Change* **6**: 896-97 [doi:10.1038/nclimate3079].
- Armour, Kyle C., et al. (2016). "Southern Ocean Warming Delayed by Circumpolar Upwelling and Equatorward Transport." *Nature Geoscience* **0**: 549-54 [doi:10.1038/geo2731].
- Armstrong McKay, David I., et al. (2022). "Exceeding 1.5°C Global Warming Could Trigger Multiple Climate Tipping Points." *Science* **377**: eabn7950 [doi:10.1126/science.abn7950].
- Arneth, Almut, et al. (2009). "Clean the Air, Heat the Planet?" *Science* **326**: 672-73 [doi:10.1126/science.1181568].

- Arnold, J.R., and W.F. Libby (1949). "Age Determinations by Radiocarbon Content: Checks with Samples of Known Age." *Science* **110**: 678-80.
- Arnold, James R., and Ernest C. Anderson (1957). "The Distribution of Carbon-14 in Nature." *Tellus* **9**: 28-32.
- Arnold, Neil (2002). "Solar Variability, Coupling between Atmospheric Layers and Climate Change." *Phil. Transactions of the Roy. Soc. Lond.* **360**: 2787-2804 [doi:10.1098/rsta.2002.1091].
- Arnone, John A., III, et al. (2008). "Prolonged Suppression of Ecosystem Carbon Dioxide Uptake after an Anomalously Warm Year." *Nature* **455**: 383-87 [doi:10.1038/nature07296].
- Arnscheidt, Constantin W., and Daniel H. Rothman (2021). "Asymmetry of Extreme Cenozoic Climate–Carbon Cycle Events." *Science Advances* **7**: 33 [doi:10.1126/sciadv.abg6864].
- Arrhenius, Gustaf (1997). "Carbon Dioxide Warming of the Early Earth." *Ambio* **26**: 12-16.
- Arrhenius, Svante (1896). "On the Influence of Carbonic Acid in the Air Upon the Temperature of the Ground." *Philosophical Magazine* **41**: 237-76.
- Arrhenius, Svante (1901a). "Über Die Wärmeabsorption Durch Kohlensäure Und Ihren Einfluss Auf Die Temperatur Der Erdoberfläche." *Förhandlingar Svenska Vetenskapsakademiens* **58**: 25-58.
- Arrhenius, Svante (1901b). "Über Die Wärmeabsorption Durch Kohlensäure." *Annalen der Physik* **4**: 690-705.
- Arrhenius, Svante (1908). *Worlds in the Making*. New York: Harper & Brothers.
- Arrigo, Kevin R. (2007). "Marine Manipulations." *Nature* **450**: 491-92.
- Aspray, William (1990). *John Von Neumann and the Origins of Modern Computing*. Cambridge, MA: MIT Press.
- Aston, Adam, and Burt Helm (2005). "The Race against Climate Change." *Business Week* (12 Dec.), pp. 59-66.
- Atkins, G.L. (1969). *Multicompartment Models for Biological Systems*. London: Methuen.
- Atwoli, Lukoye, et al. (2021). "Call for Emergency Action to Limit Global Temperature Increases, Restore Biodiversity, and Protect Health." *New England Journal of Medicine* **385**: 1134-37 [doi:10.1056/NEJMe2113200], online at <https://www.nejm.org/doi/full/10.1056/NEJMe2113200>.



- Atwood, Margaret (2003). *Oryx and Crake*. Garden City, NY: Doubleday.
- Atwood, Margaret (2009). *The Year of the Flood*. Garden City, NY: Doubleday.
- Ausubel, Jesse H. (1983). "Annex 2: Historical Note." In *Changing Climate. Report of the Carbon Dioxide Assessment Committee*, edited by National Research Council, Commission on Physical Sciences, Mathematics, and Resources. Board on Atmospheric Science and Climate, pp. 4881-91. Washington, DC: National Academy of Sciences.
- Ayers, Greg P., and Jill M. Cainey (2007). "The Claw Hypothesis: A Review of the Major Developments." *Environmental Chemistry* **4**: 366-74 [doi:10.1071/EN07080].
- Babiker, Mustafa, et al. (2002). "The Evolution of a Climate Regime: Kyoto to Marrakech and Beyond." *Environmental Science & Policy* **5**: 195-206 [doi:10.1016/S1462-9011(02)00035-7].
- Baccini, A., et al. (2017). "Tropical Forests Are a Net Carbon Source Based on Aboveground Measurements of Gain and Loss." *Science* **358**: 230-34 [doi:10.1126/science.aam5962].
- Bacigalupi, Paolo (2015). *The Water Knife*. New York: Knopf.
- Badash, Lawrence (2001). "Nuclear Winter: Scientists in the Political Arena." *Perspectives in Physics* **3**: 76-105.
- Badash, Lawrence (2009). *A Nuclear Winter's Tale: Science and Politics in the 1980s*. Cambridge, MA: MIT Press.
- Bader, D., et al. (2005). "A U.S. Interagency Distributed Climate Modeling Project." *Eos, Transactions of the American Geophysical Union* **86**: 309-10.
- Bader, J., et al. (2020). "Global Temperature Modes Shed Light on the Holocene Temperature Conundrum." *Nature Communications* **11**: 4726 [doi.org/10.1038/s41467-020-18478-6].
- Baer, F., et al. (1991) *Climate in Human Perspective: A Tribute to Helmut F. Landsberg*. Dordrecht: Kluwer Academic.
- Bailes, Kendall E. (1990). *Science and Russian Culture in an Age of Revolutions: V.I. Vernadsky and His Scientific School, 1863-1945*. Bloomington: Indiana University Press.
- Baker, Jonathan L., et al. (2017). "Holocene Warming in Western Continental Eurasia Driven by Glacial Retreat and Greenhouse Forcing." *Nature Geoscience* **10**: 430-36 [doi:10.1038/NGEO2953].
- Baker, Zeke (2017). "Climate State: Science-State Struggles and the Formation of Climate Science in the US from the 1930s to 1960s." *Social Studies of Science* **47**: 861-87

[<https://doi.org/10.1177/0306312717725205>].

- Balaguru, Karthik, et al. (2018). “Increasing Magnitude of Hurricane Rapid Intensification in the Central and Eastern Tropical Atlantic.” *Geophysical Research Letters* **45**: 4238-47 [doi:10.1029/2018GL077597].
- Balco, Greg (1999). “Hot Air and Congress.” *Eos, Transactions of the American Geophysical Union* **80**: 320.
- Baldwin, Betty, et al. (1976). “Stratospheric Aerosols and Climatic Change.” *Nature* **263**: 551-55.
- Baliunas, Sallie, and Robert Jastrow (1990). “Evidence for Long-Term Brightness Changes of Solar-Type Stars.” *Nature* **348**: 520-23.
- Baliunas, S.L., et al. (1992). “Long-Term Variability of Solar Total Irradiance: Studies of Solar-Type Stars.” *Eos, Transactions of the American Geophysical Union* **73**: 245.
- Ball, R. J., and G. P. Robinson (1982). “The Origin of Haze in the Central United States and Its Effect on Solar Radiation.” *J. Applied Meteorology* **21**: 171-188.
- Ballantyne, A. P., et al. (2012). “Increase in Observed Net Carbon Dioxide Uptake by Land and Oceans During the Past 50 Years.” *Nature* **488**: 70-72 [doi:10.1038/nature11299].
- Ballew, Matthew T., et al. (2019). “Climate Change in the American Mind: Data, Tools, and Trends.” *Environment: Science and Policy for Sustainable Development* **61**: 4-18 [https://doi.org/10.1080/00139157.2019.1589300].
- Ballard, J.G. (1962). *The Drowned World*. St. Paul, MN: Green Lion Books. Numerous reprints, e.g., NY: HarperPerennial, 2006.
- Balmaseda, Magdalena A., et al. (2013). “Distinctive Climate Signals in Reanalysis of Global Ocean Heat Content.” *Geophysical Research Letters* **40**: 1754-59 [doi:10.1002/grl.50382].
- Bamber, Jonathan L., et al. (2009). “Reassessment of the Potential Sea-Level Rise from a Collapse of the West Antarctic Ice Sheet.” *Science* **324**: 901-03 [doi:10.1126/science.1169335].
- Bamber, Jonathan L., et al. (2019). “Ice Sheet Contributions to Future Sea-Level Rise from Structured Expert Judgment.” *Publications of the National Academy of Sciences* **23**: 11195-11200 <https://doi.org/10.1073/pnas.1817205116>
- Bandara, Kanchana, et al. (2021). “Two Hundred Years of Zooplankton Vertical Migration Research.” *Biological Reviews* **96**: 1547-89 [doi.org/10.1111/brv.12715].

- Bar-On, Yinon M., et al. (2018). "The Biomass Distribution on Earth." *Proceedings of the National Academy of Sciences* **115**: 6506-11 [doi:10.1073/pnas.1711842115].
- Barber, D.C., et al. (1999). "Forcing of the Cold Event of 8,200 Years Ago by Catastrophic Drainage of Laurentide Lakes." *Nature* **400**: 344-48.
- Bard, Edouard (1999). "Ice Age Temperatures and Geochemistry." *Science* **284**: 1133-34.
- Bard, Edouard, and Martin Frank (2006). "Climate Change and Solar Variability: What's New under the Sun?" *Earth and Planetary Science Letters* **248**: 1-14 [doi:10.1016/j.epsl.2006.06.016].
- Bard, Edouard, et al. (1990). "Calibration of the 14C Timescale over the Past 30,000 Years Using Mass Spectrometric U-Th Ages from Barbados Corals." *Nature* **345**: 405-410.
- Bard, Edouard, et al. (2003). "Solar Irradiance During the Last 1200 Years Based on Cosmogenic Nuclides." *Tellus B* **52**: 985-92 [doi:10.1034/j.1600-0889.2000.d01-7.x].
- Barendsen, G. W., et al. (1957). "Yale Natural Radiocarbon Measurements III." *Science* **126**: 908-19.
- Barker, Stephen, et al. (2009). "Interhemispheric Atlantic Seesaw Response During the Last Deglaciation." *Nature* **457**: 1097-1103 [doi:10.1038/nature07770].
- Barletta, Valentina R., et al. (2018). "Observed Rapid Bedrock Uplift in Amundsen Sea Embayment Promotes Ice-Sheet Stability." *Science* **360**: 1335-39 [doi:10.1126/science.aao1447].
- Barnett, Jon (2001). *Security and Climate Change (Tyndall Center Working Paper No. 7)*. Norwich, UK, Tyndall Centre for Climate Change Research, University of East Anglia. pp. 17, online at [http://www.tyndall.ac.uk/publications/working\\_papers/wp7.pdf](http://www.tyndall.ac.uk/publications/working_papers/wp7.pdf).
- Barnett, Tim P., et al. (2001). "Detection of Anthropogenic Climate Change in the World's Oceans." *Science* **292**: 270-74.
- Barnett, Tim P., and Neil Adger (2005). *Security and Climate Change: Towards an Improved Understanding*, Oslo, Norway, online at <http://www.cicero.uio.no/humsec/papers/Barnett&Adger.pdf> ], Workshop on Human Security and Climate Change
- Barnett, Tim P., et al. (2005). "Penetration of Human-Induced Warming into the World's Oceans." *Science* **309**: 284-87 [doi:10.1126/science.1112418].
- Barnola, J.M., et al. (1987). "Vostok Ice Core Provides 160,000-Year Record of Atmospheric CO<sub>2</sub>." *Nature* **329**: 408-.

- Barreiss, David A., and Reid A. Bryson (1965). "Climatic Episodes and the Dating of the Mississippian Cultures." *Wisconsin Archeologist* **46**, no. 4 (Dec.), pp. 203-20.
- Barrett, Earl W. (1971). "Climate Change (Letter)." *Science* **171**: 983.
- Barrett, Earl W., and Helmut E. Landsberg (1975). "Inadvertent Weather and Climate Modification." *CRC Critical Reviews in Environmental Control* **6**: 15-90.
- Barron, E.J. (1987). "Eocene Equator-to-Pole Surface Ocean Temperatures: A Significant Climate Problem?" *Paleoceanography* **2**: 729-39.
- Barrows, Timothy T., et al. (2007). "Absence of Cooling in New Zealand and the Adjacent Ocean During the Younger Dryas Chronozone." *Science* **318**: 86-89 [doi:10.1126/science.1145873].
- Bartter, Martha A. (1988). *The Way to Ground Zero: The Atomic Bomb in American Science Fiction*. New York: Greenwood.
- Bassis, J. N., and C. C. Walker (2011). "Upper and Lower Limits on the Stability of Calving Glaciers from the Yield Strength Envelope of Ice." *Proceedings of the Royal Society A* **468**: 913-31 [https://doi.org/10.1098/rspa.2011.0422].
- Bastin, Jean-Francois, et al. (2019). "The Global Tree Restoration Potential." *Science* **365**: 76-79 [doi:10.1126/science.aax0848].
- Bates, J.R., et al. (1993) *Understanding Climate: Selected Works of Yale Mintz*. Hampton, VA: A. Deepak, Science & Technology Corp.
- Battle, M., et al. (2000). "Global Carbon Sinks and Their Variability Inferred from Atmospheric O<sub>2</sub> and [Delta]13c." *Science* **287**: 2467-70.
- Bauch, Henning A., et al. (2000). "Siberian Shelf Sediments Contain Clues to Paleoclimate Forcing." *Eos, Transactions of the American Geophysical Union* **81**: 233, 238.
- Bauer, Eva, et al. (2003). "Assessing Climate Forcings of the Earth System for the Past Millennium." *Geophysical Research Letters* **30**: 1276-80 [doi:10.1029/2002GL016639].
- Baxter, William Joseph (1953). *Today's Revolution in Weather*. New York: International Economic Research Bureau.
- Bassis, J. N., and C. C. Walker (2011). "Upper and Lower Limits on the Stability of Calving Glaciers from the Yield Strength Envelope of Ice." *Proceedings of the Royal Society A* **468**: 913-31 [https://doi.org/10.1098/rspa.2011.0422].
- Beck, Silke (2012). "Between Tribalism and Trust: The IPCC under the 'Public Microscope'."

- Nature and Culture* 7: 151-73 [<https://doi.org/10.3167/nc.2012.070203>].
- Beck, Silke, and Martin Mahoney (2018). "The IPCC and the New Map of Science and Politics." *Wiley Interdisciplinary Reviews: Climate Change* 9: e547 [<https://doi.org/10.1002/wcc.547>].
- Behrenfeld, Michael J., et al. (2006). "Climate-Driven Trends in Contemporary Ocean Productivity." *Nature* 444: 752-55 [doi:10.1038/nature05317].
- Bell, Alice (2021). *Our Biggest Experiment: An Epic History of the Climate Crisis*. Berkeley, CA: Counterpoint.
- Bell, P. R. (1982). "Methane Hydrate and the Carbon Dioxide Question." In *Carbon Dioxide Review 1982*, edited by Clark, William C., pp. 401-406. New York: Oxford University Press.
- Bellamy, Pat H., et al. (2005). "Carbon Losses from All Soils across England and Wales 1978-2003." *Nature* 437: 245-48 [doi:10.1038/nature04038].
- Bello, Francis (1954). "Climate: The Heat May Be Off." *Fortune* 50, (Aug.), p. 108ff.
- Bellouin, Nicolas, et al. (2005). "Global Estimate of Aerosol Direct Radiative Forcing from Satellite Measurements." *Nature* 438: 1138-41 [doi:10.1038/nature04348].
- Benarie, Michel (2000). "Aerosol Science and Military Research." In *History of Aerosol Science. Proceedings of the Symposium... Vienna, Austria, 1999*, edited by Preining, Othmar, and E. James Davis, pp. 147-50. Vienna: Akademie der Wissenschaften.
- Benestad, R. E. (2005). "A Review of the Solar Cycle Length Estimates." *Geophysical Research Letters* 32: L15714 [doi:10.1029/2005GL023621].
- Benestad, R.E., et al. (2016). "Learning from Mistakes in Climate Research." *Theoretical and Applied Climatology* 126: 699-703 [<https://doi.org/10.1007/s00704-015-1597-5>].
- Benestad, Rasmus E. (2017). "A Mental Picture of the Greenhouse Effect." *Theoretical and Applied Climatology* 128: 679-88, online at <https://link.springer.com/article/10.1007/S00704-016-1732-Y>.
- Bengtsson, Lennart , et al. (2009). "Will Extratropical Storms Intensify in a Warmer Climate?" *Journal of Climate* 22: 2276-2301 [doi:10.1175/2008JCLI2678.1].
- Benningfield, D. (2023). "Redefining 'Glacial Pace'." *Eos, Transactions of the American Geophysical Union* 104 (24 April) [doi:10.1029/2023EO230165].
- Bentley, Charles R. (1980). "Response of the West Antarctic Ice Sheet to CO<sub>2</sub> Induced Climatic

- Warming.” In *Environmental and Societal Consequences of a Possible CO<sub>2</sub>-Induced Climate Change*, Vol. 2, pp. 1-. Washington, DC: Dept. of Energy.
- Bentley, Charles R. (1982). “The West Antarctic Ice Sheet: Diagnosis and Prognosis.” In *Carbon Dioxide Research Conference. Proceedings*, Springfield, VA: NTIS.
- Bereiter, Bernhard, et al. (2018). “Mean Global Ocean Temperatures During the Last Glacial Transition.” *Nature* **553**: 39-44 [doi:10.1038/nature25152].
- Berg, M., and R. Lidskog (2018). “Pathways to Deliberative Capacity: The Role of the IPCC.” *Climatic Change* **148**: 11-24 [doi.org/10.1007/s10584-018-2180-8].
- Berger, A., and M.F. Loutre (2002). “An Exceptionally Long Interglacial Ahead?” *Science* **297**: 1287-88 [doi:10.1126/science.1076120].
- Berger, A.L. (1977). “Support for the Astronomical Theory of Climate Change.” *Nature* **269**: 44-45.
- Berger, A. L. (1978). “Long-Term Variations of Caloric Insolation Resulting from the Earth’s Orbital Elements.” *Quaternary Research* **9**: 139-67.
- Berger, A. L. (1988). “Milankovitch Theory and Climate.” *Reviews of Geophysics* **26**: 624-57.
- Bergthorsson, P., et al. (1955). “Routine Forecasting with the Barotropic Model.” *Tellus* **7**: 272-76.
- Berkner, L. V., and L. C. Marshall (1965). “On the Origin and Rise of Oxygen Concentration in the Earth’s Atmosphere.” *Journal of the Atmospheric Sciences* **22**: 225-61 [doi.org/10.1175/1520-0469(1965)022<0225:OTOARO 2.0.CO;2].
- Berner, Robert A., et al. (1983). “The Carbonate-Silicate Geochemical Cycle and Its Effect on Atmospheric Carbon Dioxide over the Past 100 Million Years.” *American J. Science* **283**: 641-83.
- Berner, Robert A. (1991). “A Model for Atmospheric CO<sub>2</sub> over Phanerozoic Time.” *American J. Science* **291**: 339-76.
- Berner, Robert A. (1995). “A.G. Högbom and the Development of the Concept of the Geochemical Carbon Cycle.” *American J. Science* **295**: 491-95.
- Berner, Werner, et al. (1980). “Information on the CO<sub>2</sub> Cycle from Ice Core Studies.” *Radiocarbon* **22**: 227-35.
- Bertagni, Matteo B., et al. (2022). “Risk of the Hydrogen Economy for Atmospheric Methane.” *Nature Communications* **13**: 7706 [doi:10.1038/s41467-022-35419-7].

- Best, A.I., et al. (2006). "Shallow Seabed Methane Gas Could Pose Coastal Hazard." *Eos, Transactions of the American Geophysical Union* **87**: 213, 217.
- Betancourt, Mark (2022). "Are We Entering the Golden Age of Climate Modeling?" *Eos, Transactions of the American Geophysical Union* **103** (Nov. 21) [doi.org/10.1029/2022EO220538].
- Beuermann, Christiane, and Jill Jäger (1996). "Climate Change Politics in Germany." In *Politics of Climate Change: A European Perspective*, edited by O'Riordan, Tim, and Jill Jäger, pp. 186-227. London: Routledge.
- Bhatia, Kieran (2018). "Projected Response of Tropical Cyclone Intensity and Intensification in a Global Climate Model." *Journal of Climate* **21**:8281-8303 [https://doi.org/10.1175/JCLI-D-17-0898.1].
- Bhatia, K.T., et al. (2018). "Projected Response of Tropical Cyclone Intensity and Intensification in a Global Climate Model." *Journal of Climate* **31**: 8281-8303 [doi:10.1175/JCLI-D-17-0898.1].
- Bhatia, Kieran T., et al. (2019). "Recent Increases in Tropical Cyclone Intensification Rates." *Nature Communications* **10**: 635 [doi:10.1038/s41467-019-08471-z].
- Bickel, J. Eric, and Lee Lane (2009). *An Analysis of Climate Engineering as a Response to Climate Change*, Copenhagen, Copenhagen Consensus Center, online at <http://fixtheclimate.com/> pp. 57.
- Billett, Simon (2009). "Dividing Climate Change: Global Warming in the Indian Mass Media." *Climatic Change* **99**: 1-16 [doi:1007/s10584-009-9605-3].
- Bindschadler, Robert A., and Charles R. Bentley (2002). "On Thin Ice?" *Scientific American* **287**, no. 6 (Dec.), pp. 98-105.
- Bindschadler, Robert A., et al. (2003). "Tidally Controlled Stick-Slip Discharge of a West Antarctic Ice Stream." *Science* **301**: 1087-89.
- Bindschadler, Robert A. (2006). "Hitting the Ice Sheets Where It Hurts." *Science* **311**: 1720-21 [doi:10.1126/science.1125226].
- Bjerknes, Jacob (1964). "Atlantic Air-Sea Interaction." *Advances in Geophysics* **10**: 1-82.
- Bjerknes, Jacob (1966). "A Possible Response of the Atmospheric Hadley Circulation to Equatorial Anomalies of Ocean Temperature." *Tellus* **18**: 820-29.
- Bjerknes, Jacob (1969). "Atmospheric Teleconnections from the Equatorial Pacific." *Monthly*

*Weather Review* **97**: 163-72.

- Bjerknes, V. (1921). "On the Dynamics of the Circular Vortex." *Geofysiske Publikasjoner* **2**: 1-88.
- Blackburn, T., et al. (2020). "Ice Retreat in Wilkes Basin of East Antarctica During a Warm Interglacial." *Nature* **583**: 554-59 [doi.org/10.1038/s41586-020-2484-5].
- Blackport, Russell, and James A. Screen (2020). "Weakened Evidence for Mid-Latitude Impacts of Arctic Warming." *Nature Climate Change* **10**: 1065-66 [doi.org/10.1038/s41558-020-00954-y].
- Blackstock, Jason J., and Jane C. S. Long (2010). "The Politics of Geoengineering." *Science* **327**: 527 [doi:10.1126/science.1183877].
- Blair, Thomas A. (1942). *Climatology, General and Regional*. New York: Prentice-Hall.
- Blake, Donald R., and F. Sherwood Rowland (1988). "Continuing Worldwide Increase in Tropospheric Methane, 1978 to 1987." *Science* **239**: 1129-31.
- Blanchon, Paul, et al. (2009). "Rapid Sea-Level Rise and Reef Back-Stepping at the Close of the Last Interglacial Highstand." *Nature* **458**: 881-84 [doi:10.1038/nature07933].
- Blankenship, D.D., et al. (1986). "Seismic Measurements Reveal a Saturated Porous Layer beneath an Active Antarctic Ice Stream." *Nature* **322**: 54-57.
- Bloch, M. R. (1965). "A Hypothesis for the Change of Ocean Levels Depending on the Albedo of the Polar Ice Caps." *Palaeogeography, Palaeoclimatology, Palaeoecology* **1**: 127-42.
- Bloom, A. Anthony, et al. (2010). "Large-Scale Controls of Methanogenesis Inferred from Methane and Gravity Spaceborne Data." *Science* **327**: 322-25 [doi:10.1126/science.1175176].
- Bloom, A.L., et al. (1974). "Quaternary Sea Level Fluctuations on a Tectonic Coast: New 230th/234u Dates from the Huon Peninsula, New Guinea." *Quaternary Research* **4**: 185-205.
- Blöschl, Günter, et al. (2019). "Changing Climate Both Increases and Decreases European River Floods." *Nature* **573**: 108-11 [https://doi.org/10.1038/s41586-019-1495-6].
- Bochow, Nils, et al. (2023). "Overshooting the Critical Threshold for the Greenland Ice Sheet." *Nature* **622**: 528-536 [doi:10.1038/s41586-023-06503-9].
- Bock, Lisa, and Ulrike Burkhardt (2019). "Contrail Cirrus Radiative Forcing for Future Air



- Traffic.” *Atmospheric Chemistry and Physics* **19**: 8163-74 [doi.org/10.5194/acp-19-8163-2019].
- Bodansky, Daniel (1994). “Prologue to the Climate Change Convention,” pp. 45-74 in *Negotiating Climate Change: The inside Story of the Rio Convention*, edited by Mintzer, Irving, and J.A. Leonard. Cambridge: Cambridge University Press.
- Bodansky, Daniel (1997). *The History and Legal Structure of the Global Climate Change Regime*. Potsdam: PIK.
- Boehmer-Christiansen, Sonja (1994a). “A Scientific Agenda for Climate Policy?” *Nature* **372**: 400-402.
- Boehmer-Christiansen, Sonja (1994b). “Global Climate Protection Policy: The Limits of Scientific Advice, Parts I and II.” *Global Environmental Change* **4**: 140-59, 185-200.
- Boer, G.J., et al. (1992). “Some Results from an Intercomparison of the Climates Simulated by 14 Atmospheric General Circulation Models.” *J. Geophysical Research* **97**: 12771-86.
- Boers, Niklas (2021). “Observation-Based Early-Warning Signals for a Collapse of the Atlantic Meridional Overturning Circulation.” *Nature Climate Change* **11**: 680-88 [doi.org/10.1038/s41558-021-01097-4].
- Boers, Niklas (2024). “Reply To: Evidence Lacking for a Pending Collapse of the Atlantic Meridional Overturning Circulation.” *Nature Climate Change* **14**: 43-47 [doi:10.1038/s41558-023-01878-z].
- Boettcher, Miranda, and Stefan Schäfer, eds. (2017). “Crutzen+10 Special Issue.” *Earth’s Future* **5** (Jan.).
- Bogard, Matthew J., et al. (2019). “Negligible Cycling of Terrestrial Carbon in Many Lakes of the Arid Circumpolar Landscape.” *Nature Geoscience* **12**: 180-85 [doi:10.1038/s41561-019-0299-5].
- Bohr, Christian (1899). “Definition Und Methode Zur Bestimmung Der Invasions- Und Evasionscoefficienten Bei Der Auflösung Von Gasen in Flüssigkeiten...” *Annalen der Physik und Chemie* **n.f. 68**: 500-525.
- Bolin, Bert (1950). “On the Influence of the Earth’s Orography on the General Character of the Westerlies.” *Tellus* **2**: 184-95.
- Bolin, Bert (1952). “Studies of the General Circulation of the Atmosphere.” *Advances in Geophysics* **1**: 87-118.
- Bolin, Bert, and Erik Eriksson (1959). “Changes in the Carbon Dioxide Content of the

- Atmosphere and Sea Due to Fossil Fuel Combustion.” In *The Atmosphere and the Sea in Motion*, edited by Bolin, Bert, pp. 130-42. New York: Rockefeller Institute Press.
- Bolin, Bert, and Erik Eriksson (1959) *The Atmosphere and the Sea in Motion: Scientific Contributions to the Rossby Memorial Volume*. New York: Rockefeller Institute Press.
- Bolin, Bert (1960). “On the Exchange of Carbon Dioxide between the Atmosphere and the Sea.” *Tellus* **12**: 274-81.
- Bolin, Bert, and C.D. Keeling (1963). “Large-Scale Atmospheric Mixing as Deduced from the Seasonal and Meridional Variations of Carbon Dioxide.” *J. Geophysical Research* **68**: 3899-3920.
- Bolin, Bert (1970). “The Carbon Cycle.” *Scientific American* **223**, no. 3 (Sept.), pp. 125-32.
- Bolin, Bert (1972). “Atmospheric Chemistry and Environmental Pollution.” In *Meteorological Challenges: A History*, edited by McIntyre, D.P., pp. 237-66. Ottawa: Information Canada.
- Bolin, Bert, and Robert J. Charlson (1976). “On the Role of the Tropospheric Sulfur Cycle in the Shortwave Radiative Climate of the Earth.” *Ambio* **5**: 47-54.
- Bolin, Bert (1977). “Changes of Land Biota and Their Importance for the Carbon Cycle.” *Science* **196**: 613-15.
- Bolin, Bert, et al. (1979) *The Global Carbon Cycle. SCOPE Report No. 13*. New York: John Wiley.
- Bolin, Bert, ed. (1981) *Carbon Cycle Modeling. SCOPE Report No. 16*. New York: John Wiley.
- Bolin, Bert, et al. (1986) *The Greenhouse Effect, Climatic Change, and Ecosystems. SCOPE Report No. 29*. Chichester: John Wiley.
- Bolin, Bert, et al. (1995). *IPCC Second Assessment Synthesis of Scientific-Technical Information Relevant to Interpreting Article 2 of the Unfccc*, Geneva, IPCC pp. 64.
- Bolin, Bert (2007). *A History of the Science and Politics of Climate Change. The Role of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.
- Bolle, Hans-Jürgen (2008). *International Radiation Commissions 1896 to 2008: Research into Atmospheric Radiation from IMO to IAMAS. IAMAS Publication Series No. 1*. Oberpfaffenhofen, Germany, online at <http://www.iamas.org/PDF%20files/IAMAS-PubSer-No1.pdf>: International Association of Meteorology and Atmospheric Sciences.
- Bolle, Hans-Jürgen (2009). “20th Century Radiation Research: Photon Interactions from

- Molecular Scale to Complex Structures.” In *Current Problems in Atmospheric Radiation (Irs 2008) Cp1100.*, edited by Nakajima, Teruyaki, and Marcia Akemi Yamasoe, pp. 1-6. Melville, NY: American Institute of Physics.
- Bolton, Patrick, et al. (2020). *The Green Swan: Central Banking and Financial Stability in the Age of Climate Change*. Basel: Bank for International Settlements, online at <https://www.bis.org/publ/othp31.pdf>.
- Bonan, Gordon B., et al. (1992). “Effects of Boreal Forest Vegetation on Global Climate.” *Nature* **359**: 716-18 [doi:10.1038/359716a0].
- Bond, Gerard, et al. (1992). “Evidence for Massive Discharges of Icebergs into the North Atlantic Ocean During the Last Glacial Period.” *Nature* **360**: 245-49.
- Bond, Gerard, et al. (1993). “Correlations between Climate Records from North Atlantic Sediments and Greenland Ice.” *Nature* **365**: 143-47.
- Bond, Gerard C., et al. (1997). “A Pervasive Millennial-Scale Cycle in North Atlantic Holocene and Glacial Climates.” *Science* **278**: 1257-66.
- Bond, Gerard C., et al. (2001). “Persistent Solar Influence on North Atlantic Climate During the Holocene.” *Science* **294**: 2130-36 [doi:10.1126/science.1065680].
- Bond, Gerard (2006). “The Interaction of Glaciers and Oceans in the Context of Changing Climate.” In *Glacier Science and Environmental Change*, edited by Knight, Peter G., pp. 126-32. Malden, MA: Blackwell.
- Bond, Tami C., et al. (2013). “Bounding the Role of Black Carbon in the Climate System: A Scientific Assessment.” *Journal of Geophysical Research: Atmospheres* **118** [doi: 10.1002/jgrd.50171].
- Bond-Lamberty, Ben, et al. (2018). “Globally Rising Soil Heterotrophic Respiration over Recent Decades.” *Nature* **560**: 80-83 [https://doi.org/10.1038/s41586-018-0358-x].
- Bond-Lamberty, Ben, et al. (2024). “Twenty Years of Progress, Challenges, and Opportunities in Measuring and Understanding Soil Respiration.” *Journal of Geophysical Research: Biogeosciences* **129**: E2023JG007637 [doi.org/10.1029/2023JG007637].
- Bony, Sandrine, et al. (2011). “Carbon Dioxide and Climate: Perspectives on a Scientific Assessment.” *WCRP Open Science Conference*: 21 pp., online at [http://www.wcrp-climate.org/conference2011/documents/LongTermClimateChange\\_Bony.pdf](http://www.wcrp-climate.org/conference2011/documents/LongTermClimateChange_Bony.pdf).
- Boos, William R. (2011). “Climate: Cold Winters from Warm Oceans.” *Nature* **471**: 584-86 [doi:10.1038/471584a].

- Booth, B.B.B., et al. (2012). "Aerosol Haze Implicated as a Prime Driver of Twentieth Century North Atlantic Climate Variability." *Nature* **484**: 228-32 [https://doi.org/10.1038/nature10946], available online at <http://centaur.reading.ac.uk/30590/>
- Bord, Richard J., et al. (1998). "Public Perceptions of Global Warming: United States and International Perspectives." *Climate Research* **11**: 75-84.
- Bord, Richard J., et al. (2000). "In What Sense Does the Public Need to Understand Global Climate Change?" *Public Understanding of Science* **9**: 205-18.
- Borisov, P. M. (1962). "The Problem of the Fundamental Amelioration of Climate." *Izvestia Vses. Geogr. Obshchestva (Voronezh)* **94**: 304-318.
- Born, Dorothea (2019). "Bearing Witness? Polar Bears as Icons for Climate Change Communication in *National Geographic*." *Environmental Communication* **13**: 649-63 [doi:10.1080/17524032.2018.1435557].
- Bostrom, Ann, et al. (1994). "What Do People Know About Climate Change? 1. Mental Models." *Risk Analysis* **14**: 959-70.
- Bostrom, Nick, and Milan M. Cirkovic (2008) *Global Catastrophic Risks*. New York: Oxford University Press.
- Boucher, Olivier (1999). "Air Traffic May Increase Cirrus Cloudiness." *Nature* **397**: 30-31.
- Boulton, C.A., et al. (2022). "Pronounced Loss of Amazon Rainforest Resilience since the Early 2000s." *Nature Climate Change* **12**: 271-78 [doi.org/10.1038/s41558-022-01287-8].
- Bourke, W. (1974). "A Multi-Level Spectral Model. I. Formulation and Hemispheric Integrations." *Monthly Weather Review* **102**: 687-701.
- Bousquet, Philippe, et al. (2000). "Regional Changes in Carbon Dioxide Fluxes of Land and Oceans since 1980." *Science* **290**: 1342-46.
- Bousquet, Philippe, et al. (2006). "Contribution of Anthropogenic Natural Sources to Atmospheric Methane Variability." *Nature* **443**: 439-43 [doi:10.1038/nature05132].
- Bova, Samantha, et al. (2021). "Seasonal Origin of the Thermal Maxima at the Holocene and the Last Interglacial." *Nature* **589**: 548-53 [doi:/10.1038/s41586-020-03155-x].
- Boville, Byron A., and Peter R. Gent (1998). "The NCAR Climate System Model, Version One." *Journal of Climate* **11**: 1115-30.
- Bowen, G.J. (1966). "Oxygen Isotopes as Climatic Indicators." *Earth-Science Reviews* **2**: 199-

224.

- Bowen, Mark (2005). *Thin Ice. Unlocking the Secrets of Climate in the World's Highest Mountains*. New York: Henry Holt.
- Bowen, Mark (2007). *Censoring Science: Inside the Political Attack on Dr. James Hansen and the Truth of Global Warming*. New York: Dutton.
- Box, J. E., et al. (2012). "Greenland Ice Sheet Albedo Feedback: Thermodynamics and Atmospheric Drivers." *Cryosphere* **6**: 821-39 [doi:10.5194/tc-6-821-2012].
- Box, Jason E., et al. (2022). "Greenland Ice Sheet Climate Disequilibrium and Committed Sea-Level Rise." *Nature Climate Change* **12**: 800-813 [doi:10.1038/s41558-022-01441-2].
- Boyce, Daniel G., et al. (2010). "Global Phytoplankton Decline over the Past Century." *Nature* **466**: 591-96 [doi:10.1038/nature09268]
- Boyd, Philip W., et al. (2000). "A Mesoscale Phytoplankton Bloom in the Polar Southern Ocean Stimulated by Iron Fertilization." *Nature* **407**: 695-702.
- Boykoff, Maxwell T., and Jules M. Boykoff (2004). "Balance as Bias: Global Warming and the US Prestige Press." *Global Environmental Change* **14**: 125-36.
- Boykoff, Maxwell T. (2007). "Flogging a Dead Norm? Newspaper Coverage of Anthropogenic Climate Change in the United States and United Kingdom from 2003 to 2006." *Area - Institute of British Geographers* **39**: 470-81.
- Boykoff, Maxwell T., and Jules M. Boykoff (2007). "Climate Change and Journalistic Norms: A Case-Study of US Mass-Media Coverage." *Geoforum* **38**: 1190-1204 [doi:10.1016/j.geoforum.2007.01.008].
- Boykoff, Maxwell T. (2008). "Lost in Translation? United States Television News Coverage of Anthropogenic Climate Change, 1995–2004." *Climatic Change* **86**: 1-11 [doi:10.1007/s10584-007-9299-3].
- Boykoff, Maxwell T. (2009). "We Speak for the Trees: Media Reporting on the Environment." *Annual Review of Environment and Resources* **34**: 431-57 [doi:10.1146/annurev.environ.051308.084254].
- Boykoff, Maxwell T. (2011). *Who Speaks for the Climate? Making Sense of Mass Media Reporting on Climate Change*. Cambridge: Cambridge University Press.
- Boykoff, Maxwell T. (2014). "Media Discourse on the Climate Slowdown." *Nature Climate Change* **4**: 156-58 [doi:10.1038/nclimate2156].

- Boyle, Edward A., and Lloyd D. Keigwin (1982). "Deep Circulation of the North Atlantic over the Last 200,000 Years: Geochemical Evidence." *Science* **218**: 784-87.
- Boyle, Edward A., and Lloyd D. Keigwin (1987). "North Atlantic Thermohaline Circulation During the Past 20,000 Years Linked to High-Latitude Surface Temperature." *Nature* **330**: 35-40.
- Boyle, Edward A. (1988a). "Cadmium: Chemical Tracer of Deepwater Paleoceanography." *Paleoceanography* **3**: 471-89.
- Boyle, Edward A. (1988b). "Vertical Oceanic Nutrient Fractionation and Glacial/Interglacial CO<sub>2</sub> Cycles." *Nature* **331**: 55-56.
- Boyle, T.C. (2000). *A Friend of the Earth*. New York: Viking
- Bradley, Raymond S. (1985). *Quaternary Paleoclimatology: Methods of Paleoclimatic Reconstruction*. Boston: Allen & Unwin.
- Bradley, Raymond S. (1999). *Paleoclimatology: Reconstructing Climates of the Quaternary*. San Diego, CA: Harcourt Academic Press.
- Bradley, Raymond S. (2011). *Global Warming and Political Intimidation: How Politicians Cracked Down on Scientists as the Earth Heated Up*. Amherst: University of Massachusetts Press.
- Bradley, Wilmot H. (1929). "The Varves and Climate of the Green River Epoch." *U.S. Geological Survey Professional Papers* **158E**: 85-110.
- Brancato, V., et al. (2020). "Grounding Line Retreat of Denman Glacier, East Antarctica, Measured with COSMO-SkyMed Radar Interferometry Data." *Geophysical Research Letters* **47**: 10pp. [doi.org/10.1029/2019GL086291].
- Branch, Glenn (2019). "Science Teachers in the Hot Seat: Climate Change Education in a Polarized Society." *American Educator* (Winter 2019/2020), online at <https://www.aft.org/ae/winter2019-2020/branch>.
- Brasseur, G. P., and E. Roeckner (2005). "Impact of Improved Air Quality on the Future Evolution of Climate." *Geophysical Research Letters* **32**: L23704 [doi:10.1029/2005GL023902].
- Bray, A.J. (1991). "The Ice Age Cometh. Remembering the Scare of Global Cooling." *Policy Review* **58**, (Fall), pp. 82-84.
- Bray, D., and H. von Storch (2016). *The Bray and Von Storch 5th International Survey of Climate Scientists 2015/2016*. Geesthacht, Germany: Helmholtz-Zentrum Geesthacht,

- HZG Report 2016-2, online at [https://www.academia.edu/26328070/The\\_Bray\\_and\\_von\\_Storch\\_5\\_th\\_International\\_Survey\\_of\\_Climate\\_Scientists\\_2015\\_2016](https://www.academia.edu/26328070/The_Bray_and_von_Storch_5_th_International_Survey_of_Climate_Scientists_2015_2016).
- Bray, J.R. (1959). "An Analysis of the Possible Recent Change in Atmospheric Carbon Dioxide Concentration." *Tellus* **11**: 220-30.
- Breecker, D. O., et al. (2010). "Atmospheric CO<sub>2</sub> Concentrations During Ancient Greenhouse Climates Were Similar to Those Predicted for A.D. 2100." *Publications of the National Academy of Sciences* **107**: 576-80 [doi:10.1073/pnas.0902323106].
- Breitburg, Denise, et al. (2018). "Declining Oxygen in the Global Ocean and Coastal Waters." *Science* **359**: eeam7240 [doi:10.1126/science.aam7240].
- Breitburg, Denise L, et al. (2018). *The Ocean Is Losing Its Breath: Declining Oxygen in the World's Ocean and Coastal Waters*. Paris: UNESCO, online at <https://unesdoc.unesco.org/ark:/48223/pf0000265196>.
- Breitmeier, Helmut, et al. (2006). *Analyzing International Environmental Regimes: From Case Study to Database*. Cambridge, MA: MIT Press.
- Brennan, M. Kathleen, and Gregory J. Hakim (2022). "Reconstructing Arctic Sea Ice over the Common Era Using Data Assimilation." *Journal of Climate* **35**: 1231-47 [doi.org/10.1175/JCLI-D-21-0099.1].
- Brenton, Tony (1994). *The Greening of Machiavelli: The Evolution of International Environmental Politics*. London: Earthscan; Royal Institute of International Affairs.
- Brewer, Peter G. (1997). "Ocean Chemistry of the Fossil Fuel Signal: The Haline Signature of 'Business as Usual'." *Geophysical Research Letters* **24**: 1367-69, pdf online at <https://agupubs.onlinelibrary.wiley.com/doi/pdf/10.1029/97GL01179>.
- Brewer, Peter G. (2013). "A Short History of Ocean Acidification Science in the 20th Century: A Chemist's View." *Biogeosciences* **10**: 7411-22 [doi:10.5194/bg-10-7411-2013], pdf online at <https://www.biogeosciences.net/10/7411/2013/bg-10-7411-2013.pdf>
- Bretz, J. Harlen (1923). "The Channeled Scablands of the Columbia Plateau." *J. Geology* (Nov.-Dec.).
- Brienen, R.J.W., et al. (2015). "Long-Term Decline of the Amazon Carbon Sink." *Nature* **519**: 344-48 [doi:10.1038/nature14283].
- Brimblecombe, Peter (1995). "History of Air Pollution." In *Composition, Chemistry, and Climate of the Atmosphere*, edited by Singh, Hanwant B., pp. 1-18. New York: Van Nostrand Reinhold.

- Broberg, C., et al. (2018). "Crop Quality under Rising Atmospheric CO<sub>2</sub>." *Current Opinion in Plant Biology* **45**: 262-67 [<https://doi.org/10.1016/j.pbi.2018.06.001>].
- Broecker, Wallace S. (1957) "Application of radiocarbon to oceanography and climate chronology," PhD Thesis, Columbia University, New York.
- Broecker, Wallace S., et al. (1960a). "Evidence for an Abrupt Change in Climate Close to 11,000 Years Ago." *American J. Science* **258**: 429-48.
- Broecker, Wallace S., et al. (1960b). "Natural Radiocarbon in the Atlantic Ocean." *J. Geophysical Research* **65**: 2903-31.
- Broecker, Wallace S. (1966). "Absolute Dating and the Astronomical Theory of Glaciation." *Science* **151**: 299-304.
- Broecker, Wallace S. (1968). "In Defense of the Astronomical Theory of Glaciation." *Meteorological Monographs* **8**: 139-41.
- Broecker, Wallace S., et al. (1968). "Milankovitch Hypothesis Supported by Precise Dating of Coral Reefs and Deep-Sea Sediments." *Science* **159**: 297-300 [[doi:10.1126/science.159.3812.297](https://doi.org/10.1126/science.159.3812.297)].
- Broecker, Wallace S., and Jan van Donk (1970). "Insolation Changes, Ice Volumes and the O18 Record in Deep-Sea Cores." *Reviews of Geophysics and Space Physics* **8**: 169-98.
- Broecker, Wallace S., et al. (1971). "Carbon Dioxide—Man's Unseen Artifact." In *Impingement of Man on the Oceans*, edited by Hood, Donald W., pp. 287-324. New York: Wiley-International.
- Broecker, Wallace S. (1975). "Climatic Change: Are We on the Brink of a Pronounced Global Warming?" *Science* **189**: 460-64.
- Broecker, Wallace S., et al. (1978). "An Estimate of the Upwelling Rate in the Equatorial Atlantic Based on the Distribution of Bomb Radiocarbon." *J. Geophysical Research* **83**: 6179-86.
- Broecker, Wallace S. (1979). "Revised Estimate for the Radiocarbon Age of North Atlantic Deep Water." *J. Geophysical Research* **84**: 3218-26.
- Broecker, Wallace S., et al. (1979). "Fate of Fossil Fuel Carbon Dioxide and the Global Carbon Budget." *Science* **206**: 409-18.
- Broecker, Wallace S., et al. (1980). "Modeling the Radiocarbon System." *Radiocarbon* **22**: 565-98.



- Broecker, Wallace S. (1981). "Geochemical Tracers and Ocean Circulation." In *Evolution of Physical Oceanography: Scientific Surveys in Honor of Henry Stommel*, edited by Warren, Bruce A., and Carl Wunsch, pp. 434-60. Cambridge, MA: MIT Press.
- Broecker, Wallace S. (1982a). "Glacial to Interglacial Changes in Ocean Chemistry." *Progress in Oceanography* **11**: 151-97.
- Broecker, Wallace S. (1982b). "Ocean Chemistry During Glacial Time." *Geochimica et Cosmochimica Acta* **46**: 1689-1705.
- Broecker, Wallace S., and T.H. Peng (1982). *Tracers in the Sea*. Palisades, NY: Eldigio.
- Broecker, Wallace S., et al. (1985). "Does the Ocean-Atmosphere System Have More Than One Stable Mode of Operation?" *Nature* **315**: 21-25.
- Broecker, Wallace S. (1987a). "Unpleasant Surprises in the Greenhouse?" *Nature* **328**: 123-26.
- Broecker, Wallace S. (1987b). "The Biggest Chill." *Natural History* (Oct.), pp. 74-82.
- Broecker, Wallace S., and George H. Denton (1989). "The Role of Ocean-Atmosphere Reorganizations in Glacial Cycles." *Geochimica et Cosmochimica Acta* **53**: 2465-2501.
- Broecker, Wallace S., et al. (1989). "Routing of Meltwater from the Laurentide Ice Sheet During the Younger Dryas Cold Episode." *Nature* **341**: 318-21.
- Broecker, Wallace S., and George H. Denton (1990). "The Role of Ocean-Atmosphere Reorganizations in Glacial Cycles." *Quaternary Science Reviews* **9**: 305-41.
- Broecker, Wallace S., et al. (1990). "A Salt Oscillator in the Glacial Atlantic? I. The Concept." *Paleoceanography* **5**: 469-77.
- Broecker, Wallace S. (1991). "The Great Ocean Conveyor." *Oceanography* **4**: 79-89.
- Broecker, Wallace S. (1992). "Global Warming on Trial." *Natural History* (April), pp. 6-14.
- Broecker, Wallace S., et al. (1992). "Origin of the Northern Atlantic's Heinrich Events." *Climate Dynamics* **6**: 265-73.
- Broecker, Wallace S. (1995a). "Cooling the Tropics." *Nature* **376**: 212-13.
- Broecker, Wallace S. (1995b). *The Glacial World According to Wally*. Palisades, NY: Lamont-Doherty Earth Observatory.
- Broecker, Wallace S. (1997). "Thermohaline Circulation, the Achilles Heel of Our Climate System: Will Man-Made CO<sub>2</sub> Upset the Current Balance?" *Science* **278**: 1582-88.

- Broecker, Wallace S (1998). "Paleocean Circulation During the Last Deglaciation: A Bipolar Seesaw?" *Paleoceanography* **13**: 119-21 [ doi:10.1029/97PA03707].
- Broecker, Wallace S. (1999). "Climate Change Prediction." *Science* **283**: 179.
- Broecker, Wallace S. (2000). "Converging Paths Leading to the Role of the Oceans in Climate Change." *Annual Review of Energy and the Environment* **25**: 1-19.
- Broecker, Wallace S. (2004). "Future Global Warming Scenarios (Letter)." *Science* **304**: 388.
- Broecker, Wallace S. (2006). "Was the Younger Dryas Triggered by a Flood?" *Science* **312**: 1146-47.
- Broecker, Wallace S., and Robert Kunzig (2008). *Fixing Climate: What Past Climate Changes Reveal About the Current Threat—and How to Counter It*. New York: Hill and Wang.
- Broecker, Wally [Wallace S.] (2010). *The Great Ocean Conveyor: Discovering the Trigger for Abrupt Climate Change*. Princeton, NJ: Princeton University Press.
- Broecker, Wallace S., et al. (2010). "Putting the Younger Dryas Cold Event into Context." *Quaternary Science Reviews* **29**: 1078-81 [doi:10.1016/j.quascirev.2010.02.019].
- Broecker, Wally [Wallace S.] (2012). "The Carbon Cycle and Climate Change: Memoirs of My 60 Years in Science " *Geochemical Perspectives* **1**: 221-351.
- Broecker, Wallace S. (2017). "When Climate Change Predictions Are Right for the Wrong Reasons." *Climatic Change* **142**: 1-6 [<https://doi.org/10.1007/s10584-017-1927-y>].
- Bronselaer, Ben, et al. (2018). "Change in Future Climate Due to Antarctic Meltwater." *Nature* **564**: 53-58 [<https://doi.org/10.1038/s41586-018-0712-z>].
- Brooks, C.E.P. (1922a). *The Evolution of Climate*. London: Benn (reprinted NY, AMS Press,1978).
- Brooks, C.E.P. (1922b). "A Period of Warm Winters in Europe." *Meteorological Magazine* **57**, (June), pp. 203-05.
- Brooks, C.E.P. (1925). "The Problem of Mild Polar Climates." *Quarterly J. Royal Meteorological Society* **51**: 83-94.
- Brooks, C.E.P. (1926). *Climate through the Ages: A Study of the Climatic Factors and Their Variations*. New York: R.V. Coleman.
- Brooks, C.E.P. (rev. ed. 1949). *Climate through the Ages: A Study of the Climatic Factors and Their Variations*. London: Benn.

- Brooks, C.E.P. (1950a). "Selective Annotated Bibliography on Climatic Changes." *Meteorological Abstracts and Bibliography* **1**: 446-75.
- Brooks, C.E.P. (1950b). "Climatic Fluctuations and the Circulation of the Atmosphere." *Weather* **5**: 113-119 [doi:10.1002/j.1477-8696.1950.tb01161.x]
- Brooks, C.E.P. (1951). "Geological and Historical Aspects of Climatic Change." In *Compendium of Meteorology*, edited by Malone, Thomas F., pp. 1004-18. Boston: American Meteorological Association.
- Brooks, C.E.P. (1955). "Present Position of Theories of Climatic Change." *Meteorological Magazine* (June), pp. 204-06.
- Brooks, Harvey, and Alan McDonald (2000). "The International Institute for Applied Systems Analysis, the Tap Project, and the Rains Model." In *Systems, Experts, and Computers. The Systems Approach in Management and Engineering*, edited by Hughes, Thomas P., and Agatha C. Hughes, pp. 413-31. Cambridge, MA: MIT Press.
- Brovkin, Victor, et al. (2009). "Geoengineering Climate by Stratospheric Sulfur Injections: Earth System Vulnerability to Technological Failure." *Climatic Change* **92**: 243-59 [doi:10.1007/s10584-008-9490-1].
- Brown, Andrew, et al. (2012). "Unified Modeling and Prediction of Weather and Climate: A 25-Year Journey." *Bulletin of the American Meteorological Society* **93**: 1865-77 [doi.org/10.1175/BAMS-D-12-00018.1].
- Brown, Harrison (1954). *The Challenge of Man's Future*. New York: Viking.
- Brown, Hugh A. (1948). *Popular Awakening Concerning the Impending Flood*. Published by the author.
- Brückner, E. (1890). *Klimaschwankungen Seit 1700, Nebst Bemerkungen Über Die Klimaschwankungen Der Diluvialzeit*. Vienna: Hölzel.
- Brulle, Robert J., et al. (2012). "Shifting Public Opinion on Climate Change: An Empirical Assessment of Factors Influencing Concern over Climate Change in the U.S., 2002-2010." *Climatic Change* **112**: 169-88 [doi: 10.1007/s10584-012-0403-y].
- Brulle, Robert J. (2014). "Institutionalizing Delay: Foundation Funding and the Creation of US Climate Change Counter-Movement Organizations." *Climatic Change* **122**: 681-94 [doi:10.1007/s10584-013-1018-7].
- Brulle, Robert J. (2018). "The Climate Lobby: A Sectoral Analysis of Lobbying Spending on Climate Change in the USA, 2000 to 2016." *Climatic Change* **149**: 289-303 [https://doi.org/10.1007/s10584-018-2241-z].

- Brulle, Robert J. (2021). "Networks of Opposition: A Structural Analysis of U.S. Climate Change Countermovement Coalitions 1989–2015." *Sociological Inquiry* **91**: 603-24. [doi:10.1111/soin.12333].
- Brulle, Robert J., and Kari Marie Norgaard (2019). "Avoiding Cultural Trauma: Climate Change and Social Inertia, , Doi: 10.1080/09644016.2018.1562138." *Environmental Politics* **28**: 886-908 [doi.org/10.1080/09644016.2018.1562138], online at <https://pages.uoregon.edu/norgaard/pdf/Avoiding-Cultural-Trauma-Brulle-Norgaard-2019.pdf>.
- Brunner, Manuela I., et al. (2021). "An Extremeness Threshold Determines the Regional Response of Floods to Changes in Rainfall Extremes." *Communications Earth & Environment* **2**: 173 [doi:10.1038/s43247-021-00248-x].
- Bryan, Frank (1986). "High-Latitude Salinity Effects and Interhemispheric Thermohaline Circulations." *Nature* **323**: 301-304.
- Bryan, Kirk, and Michael D. Cox (1968). "A Nonlinear Model of an Ocean Driven by Wind and Differential Heating. Parts I and II." *J. Atmospheric Sciences* **25**: 945-78.
- Bryan, Kirk (1969a). "Climate and the Ocean Circulation. III. The Ocean Model." *Monthly Weather Review* **97**: 806-27.
- Bryan, Kirk (1969b). "A Numerical Method for the Study of the Circulation of the World Ocean." *J. Computational Physics* **4**: 347-76.
- Bryan, Kirk, et al. (1975). "A Global Ocean-Atmosphere Climate Model. Part II. The Oceanic Circulation." *J. Physical Oceanography* **5**: 30-46.
- Bryan, Kirk, and Michael J. Spelman (1985). "The Ocean's Response to a CO<sub>2</sub>-Induced Warming." *J. Geophysical Research* **90**: 11,679-88.
- Bryan, Kirk, et al. (1988). "Interhemispheric Asymmetry in the Transient Response of a Coupled Ocean-Atmosphere Model to a CO<sub>2</sub> Forcing." *J. Physical Oceanography* **18**: 851-67 [doi:10.1175/1520-0485(1988)018<0851>].
- Bryden, Harry L., et al. (2005). "Slowing of the Atlantic Meridional Overturning Circulation at 25°N." *Nature* **438**: 655-57 [doi:10.1038/nature04385].
- Bryson, Reid A. (1967). "Is Man Changing the Climate of the Earth?" *Saturday Review* **13**, (1 April), pp. 52-55.
- Bryson, Reid A. (1968). "'All Other Factors Being Constant...' A Reconciliation of Several Theories of Climate Change." *Weatherwise* **21**: 56-61ff.

- Bryson, Reid A., and David A. Barreis (1968). "Climatic Change and the Mill Creek Culture of Iowa." *J. Iowa Archeological Society* **15-16**: 1-358.
- Bryson, Reid A., and Wayne M. Wendland (1970). "Climatic Effects of Atmospheric Pollution." In *Global Effects of Environmental Pollution*, edited by Singer, S. F., pp. 130-38. New York: Springer-Verlag.
- Bryson, Reid A., et al. (1970). "The Character of Late-Glacial and Postglacial Climatic Changes (Symposium, 1968)." In *Pleistocene and Recent Environments of the Central Great Plains (University of Kansas Department of Geology, Special Publication)*, Vol. **3**, edited by Dort, Wakefield, Jr., and J. Knox Jones, Jr., pp. 53-74. Lawrence, Kan.: University of Kansas Press.
- Bryson, Reid A. (1973). *Climatic Modification of Air Pollution, 2, the Sahelian Effect*. Madison, Wis.: University of Wisconsin - Madison Institute for Environmental Studies, Report 9.
- Bryson, Reid A. (1974). "A Perspective on Climatic Change." *Science* **184**: 753-60
- Bryson, Reid A., and John E. Kutzbach (1974). "Variance Spectrum of Holocene Climatic Spectrum in the North Atlantic Sector." *J. Atmospheric Sciences* **31**: 1958-73.
- Bryson, Reid A., and W.M. Wendland (1975). "Climatic Effects of Atmospheric Pollution." In *The Changing Global Environment*, edited by Singer, S.Fred, pp. 139-47. Boston: Reidel.
- Bryson, Reid A., and Gerald J. Dittberner (1976). "A Non-Equilibrium Model of Hemispheric Mean Surface Temperature." *J. Atmospheric Sciences* **33**: 2094-2106.
- Bryson, Reid A., and G.J. Dittberner (1977). "Reply." *Journal of Atmospheric Science* **34**: 1821024.
- Bryson, Reid A., and Thomas J. Murray (1977). *Climates of Hunger: Mankind and the World's Changing Weather*. Madison: University of Wisconsin Press.
- Bryson, Reid A., and Brian M. Goodman (1980). "Volcanic Activity and Climatic Changes." *Science* **207**: 1041-43.
- Bryson, Reid A. (1994). "The Discovery of the Jetstream." *Wisconsin Academy Review* **40**: 15-17.
- Bryson, Reid A. (1997). "On the Paradigm of Climatology: An Essay." *Bulletin of the American Meteorological Society* **78**: 449-55.
- Brysson, Keynyn, et al. (2013). "Climate Change Prediction: Erring on the Side of Least Drama?" *Global Environmental Change* **23**: 327-37 [doi: 10.1016/j.gloenvcha.2012.10.008].

- Budd, William F. (1981). "The Importance of Ice Sheets in Long Term Changes of Climate and Sea Level." In *Sea Level, Ice and Climatic Change. Proceedings of the Symposium... 7-8 December 1979*, edited by Allison, Ian, pp. 441-471. Washington, DC: International Association of Hydrological Sciences (publication no. 131).
- Budd, William F., and I.N. Smith (1981). "The Growth and Retreat of Ice Sheets in Response to Orbital Radiation Changes." In *Sea Level, Ice and Climatic Change. Proceedings of the Symposium... 7-8 December 1979*, edited by Allison, Ian, pp. 369-409. Washington, DC: International Association of Hydrological Sciences (publication no. 131).
- Budyko, Mikhail I. (1961) In *Water-Heat Balance Symposium of the 3rd Congress of the Geographical Society of the USSR*, pp. 218.
- Budyko, Mikhail I. (1962). "Some Ways of Influencing the Climate. (in Russian)." *Meteorologiya i Gidrologiya* **2**: 3-8.
- Budyko, Mikhail I. (1968). "On the Origin of Glacial Epochs [in Russian]." *Meteorologiya i Gidrologiya* **2**: 3-8.
- Budyko, Mikhail I. (1969). "The Effect of Solar Radiation Variations on the Climate of the Earth." *Tellus* **21**: 611-19.
- Budyko, Mikhail I. (1971). *Climate and Life*. Leningrad:
- Budyko, Mikhail I. (1972). "The Future Climate." *Eos, Transactions of the American Geophysical Union* **53**: 868-74.
- Budyko, Mikhail I. (1974a). *Izmeniya Klimata*. Leningrad: Gidrometeoizdat.
- Budyko, Mikhail I. (1974b). "Metod Vozdeystviya Na Klimat (Method of Influencing the Climate)." *Meteorologiya i Gidrologiya* **2**: 91-97.
- Budyko, Mikhail I., and I. L. Korol (1975). "Man's Impact on the Global Climate." In *Proceedings of the WMO/IAMAP Symposium on Long-Term Climatic Fluctuations, Norwich, Aug. 1975 (WMO Doc. 421)*, edited by WMO), World Meteorological Organization (pp. 465-71. Geneva: World Meteorological Organization.
- Budyko, Mikhail I., and O. A. Drozdov (1976). "Man and Climate (in Russian)." *Vestnik Leningradskoyo Universiteta -- Geologiya-Geografiya* **12**: 33-41.
- Budyko, Mikhail I. (1977). *Climatic Changes. Translation of Izmeniia Klimata (Leningrad: Gidrometeoizdat, 1974)*. Washington, DC: American Geophysical Union.
- Bugden, Dylan (2022). "Denial and Distrust: Explaining the Partisan Climate Gap." *Climatic Change* **170**: 34.

- Burkhardt, Ulrike, and Bernd Kärcher (2011). “Global Radiative Forcing from Contrail Cirrus.” *Nature Climate Change* **1**: 54-58 [doi:10.1038/NCLIMATE1068].
- Burdick, Alan (2001). “Here Comes the Sun.” *New York Times Magazine*: 9-10.
- Burgess, Matthew G., et al. (2021). “IPCC Baseline Scenarios Have over-Projected CO<sub>2</sub> Emissions and Economic Growth.” *Environmental Research Letters* **16**: 014016 [doi:10.1088/1748-9326/abccd2].
- Burkart, Katrin G., et al. (2021). “Estimating the Cause-Specific Relative Risks of Non-Optimal Temperature on Daily Mortality: A Two-Part Modelling Approach Applied to the Global Burden of Disease Study.” *The Lancet* **398**: 685-97 [doi.org/10.1016/S0140-6736(21)01700-1].
- Burke, Marshall, et al. (2015). “Global Non-Linear Effect of Temperature on Economic Production.” *Nature* **527**: 235-39 [doi:10.1038/nature15725].
- Burns, Stephen J., et al. (2011). “Milankovitch-Paced Termination II in a Nevada Speleothem?” *Geophysical Research Letters* **38**: L18701 [doi:10.1029/2011GL048560].
- Busch, Timo, and Lena Judick (2021). “Climate Change—That Is Not Real! A Comparative Analysis of Climate-Sceptic Think Tanks in the USA and Germany.” *Climatic Change* **164**: 18.
- Business Week (1976). “The World’s Climate Is Getting Worse.” *Business Week* (2 Aug.), p. 49.
- Business Week (1977). “CO<sub>2</sub> Pollution May Change the Fuel Mix.” *Business Week* (8 Aug.), p. 25.
- Business Week (1978). “The Human Factor in Modifying the Weather.” *Business Week* (27 Feb.), p. 64.
- Business Week (2006). “Global Warming.” *Business Week* no. 4014 (December 18), p. 102.
- Butler, Colin D. (2018). “Climate Change, Health and Existential Risks to Civilization: A Comprehensive Review (1989–2013).” *International Journal of Environmental Research and Public Health* **15**: 2266 [doi:10.3390/ijerph15102266].
- Butler, Octavia E (1993). *Parable of the Sower*. New York: Four Walls Eight Windows.
- Byers, Horace R. (1959). “Carl-Gustaf Rossby, the Organizer.” In *The Atmosphere and the Sea in Motion*, edited by Bolin, Bert, pp. 56-59. New York: Rockefeller Institute Press.
- Byers, Horace R. (1974). “History of Weather Modification.” In *Weather and Climate Modification*, edited by Hess, W.N., pp. 3-44. New York: John Wiley.

- Byers, Horace R. (1976). "The Founding of the Institute of Meteorology at the University of Chicago." *Bulletin of the American Meteorological Society* **57**: 1343-45.
- Byrne, Gerry (2003). "Sun Fuels Debate on Climate Change." *New Scientist* **178**, no. 2390 (April 12), pp. 14-15.
- Byrne, Michael P., and Paul A. O’Gorman (2015). "The Response of Precipitation Minus Evapotranspiration to Climate Warming: Why the ‘Wet-Get-Wetter, Dry-Get-Drier’ Scaling Does Not Hold over Land." *Journal of Climate* **28**: 8078-92 [doi.org/10.1175/JCLI-D-15-0369.1].
- Caballero, Rodrigo, and Matthew Huber (2013). "State-Dependent Climate Sensitivity in Past Warm Climates and Its Implications for Future Climate Projections." *Proceedings of the National Academy of Sciences* **110**: 14162-67 [doi.org/10.1073/pnas.1303365110].
- Caesar, L., et al. (2018). "Observed Fingerprint of a Weakening Atlantic Ocean Overturning Circulation." *Nature* **556**: 191-96 [doi:10.1038/s41586-018-0006-5].
- Caesar, L., et al. (2021). "Current Atlantic Meridional Overturning Circulation Weakest in Last Millennium." *Nature Geoscience* **14**: 118-20 [doi.org/10.1038/s41561-021-00699-z].
- Caillon, Nicolas, et al. (2003). "Timing of Atmospheric CO<sub>2</sub> and Antarctic Temperature Changes across Termination III." *Science* **299**: 1728-31 [doi:10.1126/science.1078758].
- Caldeira, Ken, and Michael E. Wickett (2003). "Oceanography: Anthropogenic Carbon and Ocean pH." *Nature* **425**: 365 [doi:10.1038/425365a].
- Caldeira, Ken, and Govindasamy Bala (2017). "Reflecting on 50 Years of Geoengineering Research." *Earth’s Future* **5**: 10-17 [doi:10.1002/2016EF000454].
- Calder, Nigel (1975). *The Weather Machine*. New York: Viking.
- Calder, Nigel (1997). *The Manic Sun*.
- Callaghan, Max W., et al. (2020). "A Topography of Climate Change Research." *Nature Climate Change* **10**: 118-23 [doi:10.1038/s41558-019-0684-5].
- Callendar, G.S. (1938). "The Artificial Production of Carbon Dioxide and Its Influence on Climate." *Quarterly J. Royal Meteorological Society* **64**: 223-40.
- Callendar, G.S. (1939). "The Composition of the Atmosphere through the Ages." *Meteorological Magazine* **74**: 33-39.
- Callendar, G.S. (1940). "Variations in the Amount of Carbon Dioxide in Different Air Currents." *Quarterly J. Royal Meteorological Society* **66**: 395-400.



- Callendar, G.S. (1941). "Infra-Red Absorption by Carbon Dioxide, with Special Reference to Atmospheric Radiation." *Quarterly J. Royal Meteorological Society* **67**: 263-75.
- Callendar, G.S. (1949). "Can Carbon Dioxide Influence Climate?" *Weather* **4**: 310-14.
- Callendar, G.S. (1958). "On the Amount of Carbon Dioxide in the Atmosphere." *Tellus* **10**: 243-48.
- Callendar, G.S. (1961). "Temperature Fluctuations and Trends over the Earth." *Quarterly J. Royal Meteorological Society* **87**: 1-12.
- Callendar (1965). "Mr. G.S. Callendar." *Quarterly J. Royal Meteorological Society* **91**: 112.
- Camill, P. (2005). "Permafrost Thaw Accelerates in Boreal Peatlands During Late-20th Century Climate Warming." *Climatic Change* **68**: 135-52.
- Camp, Charles D. , and Ka Kit Tung (2007). "Surface Warming by the Solar Cycle as Revealed by the Composite Mean Difference Projection." *Geophysical Research Letters* **34**: L14703 [doi:10.1029/2007GL030207].
- Campbell, Donald T. (1974). "Evolutionary Epistemology." In *The Philosophy of Karl Popper*, edited by Schilpp, P.A., pp. 413-63. La Salle, IL: Open Court.
- Campbell, J. E., et al. (2017). "Large Historical Growth in Global Terrestrial Gross Primary Production." *Nature* **544**: 84-87 [doi:10.1038/nature22030].
- Campbell, Kurt M. , et al. (2007). *The Age of Consequences: The Foreign Policy and National Security Implications of Global Climate Change*, Washington, DC, Center for Strategic & International Studies.
- Campbell, L. M., et al. (2009). "Beyond Baselines: Rethinking Priorities for Ocean Conservation." *Ecology and Society* **14** (1), online at <https://www.jstor.org/stable/26268047>.
- Canadell, Josep G., et al. (2007). "Contributions to Accelerating Atmospheric CO<sub>2</sub> Growth from Economic Activity, Carbon Intensity, and Efficiency of Natural Sinks." *Publications of the National Academy of Sciences* **104**: 18866-70 [doi:10.1073/pnas.0702737104].
- Cane, Mark A, et al. (1997). "Twentieth-Century Sea Surface Temperature Trends." *Science* **275**: 957-60 [doi:10.1126/science.275.5302.957].
- Cane, Mark A., and Michael Evans (2000). "Do the Tropics Rule?" *Science* **290**: 1107-8.
- Cao, Long, and Ken Caldeira (2010). "Atmospheric Carbon Dioxide Removal: Long-Term Consequences and Commitment." *Environmental Research Letters* **5**: 024011

[doi:10.1088/1748-9326/5/2/024011].

- Carey, John (2004). "Global Warming." *Business Week* no. 3896 (16 Aug.), pp. 60-69.
- Carey, John (2007). "Climate Wars: Episode Two." *Business Week* no. 4031 (April 23), pp. 90-92.
- Carleton, Tamma, et al. (2022). "Valuing the Global Mortality Consequences of Climate Change Accounting for Adaptation Costs and Benefits." *Quarterly Journal of Economics* **137**: 2037-2105 [doi:10.1093/qje/qjac020].
- Carlson, Anders E., et al. (2021). "Absence of West Antarctic-Sourced Silt at ODP Site 1096 in the Bellingshausen Sea During the Last Interglaciation: Support for West Antarctic Ice-Sheet Deglaciation." *Quaternary Science Reviews* **261**: 106939 [doi.org/10.1016/j.quascirev.2021.106939].
- Carmichael, Jason T., et al. (2017). "The Great Divide: Understanding the Role of Media and Other Drivers of the Partisan Divide in Public Concern over Climate Change in the USA, 2001–2014." *Climatic Change* **141**: 599-612 [doi:10.1007/s10584-017-1908-1].
- Carpenter, Kent E., et al. (2008). "One-Third of Reef-Building Corals Face Elevated Extinction Risk from Climate Change and Local Impact." *Science* **321**: 560-63 [doi:10.1126/science.1159196].
- Carson, D.J. (1999). "Climate Modeling: Achievement and Prospects." *Quarterly J. Royal Meteorological Society* **125**: 1-27.
- Carson, Rachel L. (1951, rev. ed. 1961). *The Sea around Us*. New York: Oxford University Press.
- Carter, D.J.T., and L. Draper (1988). "Has the North-East Atlantic Become Rougher?" *Nature* **332**: 494.
- Carvalho, Anabela, and Jacquelin Burgess (2005). "Cultural Circuits of Climate Change in UK Broadsheet Newspapers, 1985-2003." *Risk Analysis* **25**: 1457-69 [doi:10.1111/j.1539-6924.2005.00692.x].
- Casado, Mathieu, et al. (2023). "The Quandary of Detecting the Signature of Climate Change in Antarctica." *Nature Climate Change* **13**: 1082–88 [doi:10.1038/s41558-023-01791-5].
- Catania, G. A., et al. (2020). "Future Evolution of Greenland's Marine Terminating Outlet Glaciers." *Journal of Geophysical Research: Earth Surface* **125**: e2018JF004873 [doi.org/10.1029/2018JF004873].

- CCSP (U.S. Climate Change Science Program) [P.U. Clark, A.J. Weaver, et al.] (2008). *Abrupt Climate Change. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research*. Reston, VA: U.S. Geological Survey.
- Center for International Environmental Law and the Heinrich Boell Foundation (2022). *IPCC Unsummarized: Unmasking Clear Warnings on Overshoot, Techno-Fixes, and the Urgency of Climate Justice*, Geneva and Washington, DC, pp. 34. Online at [https://www.ciel.org/wp-content/uploads/2022/04/IPCC-Unsummarized\\_Unmasking-Clear-Warnings-on-Overshoot-Techno-fixes-and-the-Urgency-of-Climate-Justice.pdf](https://www.ciel.org/wp-content/uploads/2022/04/IPCC-Unsummarized_Unmasking-Clear-Warnings-on-Overshoot-Techno-fixes-and-the-Urgency-of-Climate-Justice.pdf).
- Ceppi, Paulo, and Peer Nowack (2021). “Observational Evidence That Cloud Feedback Amplifies Global Warming.” *Publications of the National Academy of Sciences* **118**: e2026290118 [[doi.org/10.1073/pnas.2026290118](https://doi.org/10.1073/pnas.2026290118)].
- Cerling, Thure E. (1991). “Carbon Dioxide in the Atmosphere; Evidence from Cenozoic and Mesozoic Paleosols.” *American Journal of Science* **291**: 377-400.
- Cesana, G.V., and A.D. Del Genio (2021). “Observational Constraint on Cloud Feedbacks Suggests Moderate Climate Sensitivity.” *Nature Climate Change* **11**: 213-18 [[doi.org/10.1038/s41558-020-00970-y](https://doi.org/10.1038/s41558-020-00970-y)].
- Cess, Robert D. (1976). “Climate Change: An Appraisal of Atmospheric Feedback Mechanisms Employing Zonal Climatology.” *J. Atmospheric Sciences* **33**: 1831-43.
- Cess, Robert D., and Gerald L. Potter (1984). “A Commentary on the Recent CO<sub>2</sub>-Climate Controversy.” *Climatic Change* **6**: 365-76.
- Cess, Robert D., et al. (1989). “Interpretation of Cloud-Climate Feedback as Produced by 14 Atmospheric General Circulation Models.” *Science* **245**: 513-16.
- Cess, Robert D., et al. (1990). “Intercomparison and Interpretation of Climate Feedback Processes in 19 Atmospheric General Circulation Models.” *J. Geophysical Research* **95**: 16601-15.
- Cess, R. D., et al. (1993). “Uncertainties in Carbon Dioxide Radiative Forcing in Atmospheric General Circulation Models.” *Science* **262**: 1252-55 [[doi:10.1126/science.262.5137.1252](https://doi.org/10.1126/science.262.5137.1252)].
- Cess, Robert D., et al. (1995). “Absorption of Solar Radiation by Clouds: Observations Vs. Models.” *Science* **267**: 496-99.
- Chagnon, Stanley A., et al. (1992). “Shifts in Perception of Climate Change: A Delphi Experiment Revisited.” *Bulletin of the American Meteorological Society* **73**: 1623-27.

- Chamberlin, Thomas C. (1897). "A Group of Hypotheses Bearing on Climatic Changes." *J. Geology* **5**.
- Chamberlin, Thomas C. (1898). "The Influence of Great Epochs of Limestone Formation Upon the Constitution of the Atmosphere." *J. Geology* **6**: 609-21.
- Chamberlin, Thomas C. (1899). "An Attempt to Frame a Working Hypothesis of the Cause of Glacial Periods on an Atmospheric Basis." *J. Geology* **7**: 545-84, 667-85, 751-87.
- Chamberlin, Thomas C. (1906). "On a Possible Reversal of Deep-Sea Circulation and Its Influence on Geologic Climates." *J. Geology* **14**: 363-73.
- Chamberlin, Thomas C. (1923). "Study of the Fundamental Problems of Geology." *Carnegie Institution Year Book* **22**: 325, 330-32.
- Chambers, F.M., and S.A. Brain (2002). "Paradigm Shifts in Late-Holocene Climatology?" *The Holocene* **12**: 239-49.
- Chambers, Frank, and Michael Ogle (2002) *Climate Change: Critical Concepts in the Environment and Physical Geography*, 4 vols. London and New York: Rutledge.
- Chan, Duo, et al. (2019). "Correcting Datasets Leads to More Homogeneous Early-Twentieth-Century Sea Surface Warming." *Nature* **571**: 393-97 [<https://doi.org/10.1038/s41586-019-1349-2>].
- Chand, Savin S., et al. (2022). "Declining Tropical Cyclone Frequency under Global Warming." *Nature Climate Change*: 655-61 [[doi.org/10.1038/s41558-022-01388-4](https://doi.org/10.1038/s41558-022-01388-4)].
- Chandrasekhar, Subrahmanyam (1950). *Radiative Transfer*. Oxford: Clarendon.
- Chang, Hai, et al. (2009). "Ice Age Terminations." *Science* **326**: 248-52 [[doi:10.1126/science.1177840](https://doi.org/10.1126/science.1177840)].
- Changnon, Stanley A. (1996). "Applied Climatology: A Glorious Past, an Uncertain Future." In *Historical Essays on Meteorology 1919-1995*, edited by Fleming, James R., pp. 379-93. Boston: American Meteorological Society.
- Chapin, F.S., III, et al. (2005). "Role of Land-Surface Changes in Arctic Summer Warming." *Science* **310**: 657-60 [[doi:10.1126/science.1117368](https://doi.org/10.1126/science.1117368)].
- Chapman, Sydney (1959). *IGY: Year of Discovery. The Story of the International Geophysical Year*. Ann Arbor: University of Michigan Press.
- Chappellaz, J., et al. (1990). "Ice-Core Record of Atmospheric Methane over the Past 160,000 Years." *Nature* **345**: 127-31.

- Chappellaz, J., et al. (1993). "Synchronous Changes in Atmospheric CH<sub>4</sub> and Greenland Climate between 40 and 8 Kyr Bp." *Nature* **366**: 443-45.
- Chappellaz, J., et al. (1997). "CH<sub>4</sub> and Delta-18O of O<sub>2</sub> Records from Antarctic and Greenland Ice: A Clue for Stratigraphic Disturbance in the Bottom Part of the Greenland Ice Core Project and the Greenland Ice Sheet Project 2 Ice Cores." *J. Geophysical Research* **102**: 26547-57.
- Charlock, Thomas P., and William D. Sellers (1980). "Aerosol Effects on Climate: Calculations with Time-Dependent and Steady-State Radiative-Convective Models." *J. Atmospheric Sciences* **37**: 1327-41.
- Charlock, Thomas P., et al. (1993). "Review of Recent Research on the Climatic Effect of Aerosols." In *Aerosol Effects on Climate*, edited by Jennings, S. Gerard, pp. 233-74. Tucson: University of Arizona Press.
- Charlson, Robert J., et al. (1972). "Aerosol Concentrations: Effect on Planetary Temperatures (Exchange of Letters)." *Science* **175**: 96.
- Charlson, Robert J., et al. (1987). "Oceanic Phytoplankton, Atmospheric Sulphur, Cloud Albedo and Climate." *Nature* **326**: 655-61.
- Charlson, Robert J., et al. (1990). "Sulphate Aerosol and Climate." *Nature* **348**: 22.
- Charlson, Robert J., et al. (1991). "Perturbation of the Northern Hemisphere Radiative Balance by Backscattering from Anthropogenic Sulfate Aerosols." *Tellus* **43AB**: 152-63.
- Charlson, Robert J., et al. (1992). "Climate Forcing by Anthropogenic Aerosols." *Science* **255**: 423-30.
- Charlson, Robert J., and Tom M. L. Wigley (1994). "Sulfate Aerosol and Climate Change." *Scientific American* (Feb.), pp. 48-57.
- Charlson, Robert J. (1998). "Direct Climate Forcing by Anthropogenic Sulfate Aerosols: The Arrhenius Paradigm a Century Later." In *The Legacy of Svante Arrhenius. Understanding the Greenhouse Effect*, edited by Rodhe, Henning, and Robert Charlson, pp. 59-71. Stockholm: Royal Swedish Academy of Sciences.
- Charlson, Robert J. (2005). "A Stone Age Greenhouse." *Nature* **438**: 165-66.
- Charney, Jule G. (1949). "On a Physical Basis for Numerical Prediction of Large-Scale Motions in the Atmosphere." *J. Meteorology* **6**: 371-85.
- Charney, Jule G., and A. Eliassen (1949). "A Numerical Method for Predicting the Perturbations of the Middle Latitude Westerlies." *Tellus* **1**: 38-54.

- Charney, Jule G., et al. (1950). "Numerical Integration of the Barotropic Vorticity Equation." *Tellus* **2**: 237-54.
- Charney, Jule G. (1975). "Dynamics of Deserts and Drought in the Sahel." *Quarterly J. Royal Meteorological Society* **101**: 193-202.
- Charnock, Henry (1998). "Ocean-Atmosphere Interactions." In *Sciences of the Earth. An Encyclopedia of Events, People, and Phenomena*, Vol. **2**, edited by Good, Gregory A., pp. 623-25. New York: Garland.
- Chen, J.L., et al. (2006). "Satellite Gravity Measurements Confirm Accelerated Melting of Greenland Ice Sheet." *Science* **313**: 1958-60 [doi:10.1126/science.1129007].
- Chen, J. L., et al. (2009). "Accelerated Antarctic Ice Loss from Satellite Gravity Measurements." *Nature Geoscience* **2**: 859 -62 [doi:10.1038/ngeo694].
- Chen, Xian Yao, and Ka-Kit Tung (2014). "Varying Planetary Heat Sink Led to Global-Warming Slowdown and Acceleration." *Science* **345**: 897-903 [doi:10.1126/science.1254937].
- Chen, Xian Yao, et al. (2017). "The Increasing Rate of Global Mean Sea-Level Rise During 1993–2014." *Nature Climate Change* **7**: 492-95 [doi:10.1038/nclimate3325].
- Chen, Xian Yao, and Ka-Kit Tung (2024). "Evidence Lacking for a Pending Collapse of the Atlantic Meridional Overturning Circulation." *Nature Climate Change* **14**: 40-42 [doi:10.1038/s41558-023-01877-0].
- Cheng, Lijing, et al. (2019). "How Fast Are the Oceans Warming?" *Science* **363**: 128-29 [doi:10.1126/science.aav7619].
- Chiang, John C. H., and Athanasios Koutavas (2004). "Tropical Flip-Flop Connections." *Nature* **432**: 684-85.
- Chiang, J. C. H., and A. R. Friedman (2012). "Extratropical Cooling, Interhemispheric Thermal Gradients, and Tropical Climate Change." *Annual Review of Earth and Planetary Sciences* **40**: 383-412 [doi.org/10.1146/annurev-earth-042711-105545].
- Chisholm, Sallie W. (2000). "Stirring Times in the Southern Ocean." *Nature* **407**: 685-87.
- Choat, Brendan, et al. (2012). "Global Convergence in the Vulnerability of Forests to Drought." *Nature* **491**: 752-55 [doi:10.1038/nature11688].
- Christ, Andrew J., et al. (2021). "A Multimillion-Year-Old Record of Greenland Vegetation and Glacial History Preserved in Sediment beneath 1.4 km of Ice at Camp Century." *Publications of the National Academy of Sciences* **118**: e2021442118 [doi.org/10.1073/pnas.2021442118].

- Christ, Andrew J., et al. (2023). “Deglaciation of Northwestern Greenland During Marine Isotope Stage 11.” *Science* **381**: 330-35 [doi:10.1126/science.ade4248].
- Christensen, Matthew W., and Graeme L Stephens (2011). “Microphysical and Macrophysical Responses of Marine Stratocumulus Polluted by Underlying Ships: Evidence of Cloud Deepening.” *Journal of Geophysical Research: Atmospheres* **116**: D03201 [doi.org/10.1029/2010JD014638].
- Christensen, T. R., et al. (2004). “Thawing Sub-Arctic Permafrost: Effects on Vegetation and Methane Emissions.” *Geophysical Research Letters* **31**: L04501.
- Christianson, Gale E. (1999). *Greenhouse: The 200-Year Story of Global Warming*. New York: Walker.
- Christie, Maureen (2000). *The Ozone Layer. A Philosophy of Science Perspective*. Cambridge: Cambridge University Press.
- Christy, J.R., and R.W. Spencer (1992). “*J. Climate* **5**: 858-.
- Christy, J.R., et al. (1997). “How Accurate Are Satellite “Thermometers”?” *Nature* **389**: 342-43.
- Christy, John R., et al. (1998). “Analysis of the Merging Procedure for the Msu Daily Temperature Time Series.” *J. Climate* **11**: 2016-41.
- Christy, John R., and Roy W. Spencer (2005). “Correcting Temperature Data Sets.” *Science* 972-73. [doi:10.1126/science.310.5750.972].
- Church, John A., and Neil J. White (2006). “20th Century Acceleration in Global Sea-Level Rise.” *Geophysical Research Letters* **33**: L01602 [doi:10.1029/2005GL024826.]
- Chylek, P., and James A. Coakley, Jr. (1974). “Aerosols and Climate.” *Science* **183**: 75-77.
- Chylek, Petr, et al. (2022). “Annual Mean Arctic Amplification 1970–2020: Observed and Simulated by CMIP6 Climate Models.” *Geophysical Research Letters* **49**: e2022GL099371 [doi.org/10.1029/2022GL099371].
- Cicerone, Ralph J., et al. (1974). “Stratospheric Ozone Destruction by Man-Made Chlorofluoromethanes.” *Science* **185**: 1165-66.
- Cicerone, Ralph J. (1999). “Atmospheric Chemistry and the Earth System.” In *Atmospheric Chemistry and Global Change*, edited by Brasseur, Guy P., et al., pp. 19-20. New York: Oxford University Press.
- Cicerone, Ralph J. (2003). “Response on Receiving Roger Revelle Medal.” *Eos, Transactions of the American Geophysical Union* **84**: 80.

- Clark, David A., et al. (2003). "Tropical Rain Forest Tree Growth and Atmospheric Carbon Dynamics Linked to Interannual Temperature Variation During 1984-2000." *Proceedings of the National Academy of Sciences* **100**: 5852-57.
- Clark, Peter U., et al. (1999). "Northern Hemisphere Ice-Sheet Influences on Global Climate Change." *Science* **286**: 1104-11.
- Clark, Peter U., et al. (2002). "Sea-Level Fingerprinting as a Direct Test for the Source of Global Meltwater Pulse 1a." *Science* **295**: 2438-41.
- Clark, Peter U., et al. (2008). *Abrupt Climate Change. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. Synthesis and Assessment Product Sap 3.4*. Reston, VA: U.S. Geological Survey.
- Clark, Peter U., et al. (2016). "Consequences of Twenty-First-Century Policy for Multi-Millennial Climate and Sea-Level Change." *Nature Climate Change* **6**, 360-69 [doi:10.1038/nclimate2923].
- Clark, Stuart (2010). "Quiet Sun Puts Europe on Ice." *New Scientist* **206**, no. 2756 (April 17-23), pp. 6-7.
- Clarke, Frank Wigglesworth (4th ed., 1920). *The Data of Geochemistry*. Washington, DC: Govt. Printing Office.
- Clayton, Susan (2018). "Mental Health Risk and Resilience among Climate Scientists." *Nature Climate Change* **8**: 260-61 [doi:10.1038/s41558-018-0123-z].
- Clement, Amy C., et al. (2009). "Observational and Model Evidence for Positive Low-Level Cloud Feedback." *Science* **325**: 460-64 [doi:10.1126/science.1171255].
- Clement, Amy, et al. (2015). "The Atlantic Multidecadal Oscillation without a Role for Ocean Circulation." *Science* **350**: 320-24 [doi:10.1126/science.aab3980].
- CLIMAP project members (A. McIntyre, et al.) (1976). "The Surface of the Ice-Age Earth." *Science* **191**: 1131-37.
- CLIMAP project members (1981). *Seasonal Reconstruction of the Earth's Surface at the Last Glacial Maximum*, Boulder, CO, Geological Society of America
- CLIMAP project members (1984). "The Last Interglacial Ocean." *Quaternary Research* **21**: 123-224.
- Climate Research Board, National Academy of Sciences (1979). *Carbon Dioxide and Climate: A Scientific Assessment*, Washington, DC, National Academy of Sciences



- Cline, R.M., and J.D. Hays (1976) *Investigation of Late Quaternary Paleoceanography and Paleoclimatology*. Boulder, CO: Geological Society of America Memoir 145.
- Cliver, E. W., and E. W. Bierly (1997). “History on the Web: An Experiment in the Geosciences.” *Eos, Transactions of the American Geophysical Union* **78**: 521-22
- Cliver, E.W., et al. (1998). “Solar Variability and Climate Change: Geomagnetic Aa Index and Global Surface Temperature.” *Geophysical Research Letters* **25**: 1035-38..
- CNA corporation, Military Advisory Board (Gen. Gordon R. Sullivan, chair) (2007). *National Security and the Threat of Climate Change*. Alexandria, VA: CNA corporation.
- Coady, David, et al. (2017). “How Large Are Global Fossil Fuel Subsidies?” *World Development* **91**: 11-27 [doi:<https://doi.org/10.1016/j.worlddev.2016.10.004>].
- Coakley, James A., Jr., et al. (1983). “The Effect of Tropospheric Aerosols on the Earth’s Radiation Budget: A Parameterization for Climate Models.” *J. Atmospheric Sciences* **40**: 116-38.
- Coakley, James A., Jr., and P. Chylek (1975). “The Two-Stream Approximation in Radiative Transfer: Including the Angle of the Incident Radiation.” *J. Atmospheric Sciences* **32**: 409-18.
- Coakley, James A., Jr., et al. (1987). “Effect of Ship-Stack Effluents on Cloud Reflectivity.” *Science* **237**: 1020-22.
- Coate, Kenneth H., et al. (1996). “A Massive Phytoplankton Bloom Induced by an Ecosystem-Scale Iron Fertilization Experiment in the Equatorial Pacific Ocean.” *Nature* **383**: 495-501.
- Cobb, William E., and Howard J. Wells (1970). “The Electrical Conductivity of Ocean Air and Its Correlation to Global Atmospheric Pollution.” *J. Atmospheric Sciences* **27**: 814-19.
- Cohen, Bernard L. (1983). *Before It’s Too Late: A Scientist’s Case for Nuclear Energy*. New York: Plenum.
- Cohen, Judah, et al. (2014). “Recent Arctic Amplification and Extreme Mid-Latitude Weather.” *Nature Geoscience* **7**: 627-37 [doi:[10.1038/ngeo2234](https://doi.org/10.1038/ngeo2234)].
- Cohen, Judah, et al. (2018). “Warm Arctic Episodes Linked with Increased Frequency of Extreme Winter Weather in the United States.” *Nature Communications* **9**, no. 869 [doi:[10.1038/s41467-018-02992-9](https://doi.org/10.1038/s41467-018-02992-9)], online at <https://www.nature.com/articles/s41467-018-02992-9>.

- Cohen, J., et al. (2020). "Divergent Consensuses on Arctic Amplification Influence on Midlatitude Severe Winter Weather." *Nature Climate Change* **10**: 20-29 [doi.org/10.1038/s41558-019-0662-y].
- COHMAP project members (1988). "Climatic Changes of the Last 18,000 Years: Observations and Model Simulations." *Science* **241**: 1043-52.
- Colinvaux, Paul A. (1964). "Origin of Ice Ages: Pollen Evidence from Arctic Alaska." *Science* **145**: 707-08.
- Coll, Steve (2012). *Private Empire. Exxonmobil and American Power*. New York: Penguin Press.
- Colón, Ferdinand (1960). *The Life of the Admiral Christopher Columbus, by His Son, Ferdinand*. London: Folio Society.
- Commission on Marine Science, Engineering and Resources (1969). *Our Nation and the Sea. A Plan for National Action*. Washington, DC: United States Government Printing Office.
- Commoner, Barry (1966). *Science and Survival*. London: Gollancz.
- Conover, John H. (1966). "Anomalous Cloud Lines." *J. Atmospheric Sciences* **23**: 778-85.
- Conservation Foundation, The (1963). *Implications of Rising Carbon Dioxide Content of the Atmosphere*. New York: The Conservation Foundation.
- Conway, Erik M. (2008). *Atmospheric Science at NASA: A History*. Baltimore, MD: Johns Hopkins University Press.
- Cook, John, et al. (2013). "Quantifying the Consensus on Anthropogenic Global Warming in the Scientific Literature." *Environmental Research Letters* **8**: 024024 [doi:10.1088/1748-9326/8/2/024024].
- Cook, J. Gordon (1957). *Our Astonishing Atmosphere*. New York: Dial.
- Coon, Carleton S. (1953). "Climate and Race." In *Climatic Change*, edited by Shapley, Harlow, pp. 13-34. Cambridge, MA: Harvard University Press.
- Coope, G. Russell, et al. (1971). "Fossil Coleoptera as Indicators of Climatic Fluctuations During the Last Glaciation in Britain." *Palaeogeography, Palaeoclimatology, Palaeoecology* **10**: 87-101.
- Coope, G. Russell, and J. A. Brophy (1972). "Late Glacial Environmental Changes Indicated by a Coleopteran Succession from North Wales." *Boreas* **1**: 97-142.

- Coope, G. Russell (1977). "Fossil Coleopteran Assemblages as Sensitive Indicators of Climatic Changes During the Devensian (Last) Cold Stage." *Philosophical Transactions of the Royal Society of London* **B280**: 313-40.
- Corfee-Morlot, Jan , et al. (2008). "Global Warming in the Public Sphere." *Philosophical Transactions of the Royal Society A* **365**: 2741-76 [Doi:10.1098/rsta.2007.2084].
- Corner, Adam, et al. (2015). *Climate Visuals: Seven Principles for Visual Climate Change Communication*. Oxford: Climate Outreach (online at <https://www.climatevisuals.org/sites/default/files/2018-03/Climate-Visuals-Report-Seven-principles-for-visual-climate-change-communication.pdf>).
- Coughlan, R. (1950). "That Infernal Weather." *Life* **29**, (31 July), pp. 74-76+.
- Coumou, Dim, and Stefan Rahmstorf (2012). "A Decade of Weather Extremes." *Nature Climate Change* **2**: 491-96 [doi:10.1038/nclimate1452].
- Coumou , Dim , et al. (2015). "The Weakening Summer Circulation in the Northern Hemisphere Mid-Latitudes." *Science* **348**: 324-27 [doi:10.1126/science.1261768].
- Coumou, Dim, et al. (2018). "The Influence of Arctic Amplification on Mid-Latitude Summer Circulation." *Nature Communications* **9**, no. 2959 [<https://doi.org/10.1038/s41467-018-05256-8>].
- Council on Environmental Quality (1970). "Man's Inadvertent Modification of Weather and Climate." (Chapter 5 of the *First Annual Report of the Council on Environmental Quality*, Aug. 1970, Pp. 93-104). *Bulletin of the American Meteorological Society* **51**: 1043-47.
- Council on Environmental Quality (1980). *The Global 2000 Report to the President of the U.S. Vol. 2, the Technical Report*. Washington, DC: U.S. Govt. Printing Office.
- Coupe, Joshua, et al. (2019). "Nuclear Winter Responses to Nuclear War between the United States and Russia in the Whole Atmosphere Community Climate Model Version 4 and the Goddard Institute for Space Studies Model." *Journal of Geophysical Research: Atmospheres* **124**: 8522-43 [<https://doi.org/10.1029/2019JD030509>].
- Couzin, Jennifer (1999). "Landscape Changes Make Regional Climate Run Hot and Cold." *Science* **283**: 317-19.
- Covey, C., et al. (1984). "Global Atmospheric Effects of Massive Smoke Injections from a Nuclear War: Results from General Circulation Model Simulations." *Nature* **308**: 21-25.

- Covey, Kristofer, et al. (2021). "Carbon and Beyond: The Biogeochemistry of Climate in a Rapidly Changing Amazon." *Frontiers in Forests and Global Change* **4**: 11 [doi.org/10.3389/ffgc.2021.6].
- Cowen, Robert C. (1960). *Frontiers of the Sea: The Story of Oceanographic Exploration*. Garden City, NY: Doubleday.
- Cowtan, Kevin, and Robert G. Way (2013). "Coverage Bias in the Hadcrut4 Temperature Series and Its Impact on Recent Temperature Trends." *Quarterly J. Royal Meteorological Society* **140**: 11476-62 [doi: 10.1002/qj.2297].
- Cox, John D. (2005). *Climate Crash. Abrupt Climate Change and What It Means for Our Future*. Washington, DC: Joseph Henry Press.
- Cox, M.D. (1975). "A Baroclinic Numerical Model of the World Ocean: Preliminary Results." In *Numerical Models of World Ocean Circulation*, edited by Reid, R.O., et al., pp. 107-18. Washington, DC: National Academy of Sciences.
- Cox, Peter M., et al. (2000). "Acceleration of Global Warming Due to Carbon-Cycle Feedbacks in a Coupled Climate Model." *Nature* **408**: 184-87.
- Cox, Peter M., and Chris Jones (2008). "Illuminating the Modern Dance of Climate and CO<sub>2</sub>." *Science* **321**: 1642-44 [doi:10.1126/science.1158907].
- Cox, Peter M., et al. (2008). "Increasing Risk of Amazonian Drought Due to Decreasing Aerosol Pollution." *Nature* **453**: 212-15 [doi:10.1038/nature06960].
- Cox, Peter M., et al. (2018). "Emergent Constraint on Equilibrium Climate Sensitivity from Global Temperature Variability." *Nature* **553**: 319-322 [doi:10.1038/nature25450].
- Craig, Harmon (1954). "Carbon 13 in Plants and the Relationship between Carbon 13 and Carbon 14 Variations in Nature." *J. Geology* **62**: 115-49.
- Craig, Harmon (1957a). "The Natural Distribution of Radiocarbon and the Exchange Times of CO<sub>2</sub> between Atmosphere and Sea." *Tellus* **9**: 1-17.
- Craig, Harmon, ed. (1957b) *Proceedings. Conference on Recent Research in Climatology, Scripps Institution of Oceanography, La Jolla, California, March 25-26, 1957*. La Jolla, CA: University of California Water Resources Center, Contribution no. 8.
- Craig, H.B., and C.C. Chou (1982). "Methane: The Record in Polar Ice Cores." *Geophysical Research Letters* **9**: 1221-24.
- Crary, A. P., et al. (1955). "Evidences of Climate Change from Ice Island Studies." *Science* **122**: 1171-73.

- Crawford, Elisabeth (1996). *Arrhenius: From Ionic Theory to the Greenhouse Effect*. Canton, MA: Watson Publishing - Science History.
- Crawford, Elisabeth (1997). "Arrhenius' 1896 Model of the Greenhouse Effect in Context." *Ambio* **26**: 6-11.
- Cressman, George P. (1996). "The Origin and Rise of Numerical Weather Prediction." In *Historical Essays on Meteorology 1919-1995*, edited by Fleming, James R., pp. 21-39. Boston: American Meteorological Society.
- Crichton, Michael (2004). *State of Fear*. New York: HarperCollins.a].
- Croll, James (1864). "On the Physical Cause of the Change of Climate During Geological Epochs." *Philosophical Magazine* **28**: 121-37.
- Croll, James (1875). *Climate and Time in Their Geological Relations. A Theory of Secular Changes of the Earth's Climate*. New York: Appleton.
- Croll, James (1886). *Discussion on Climate and Cosmology*. New York: Appleton.
- Crowe, P.R. (1971). *Concepts in Climatology*. New York: St. Martin's.
- Crowley, Thomas J. (1992). "North Atlantic Deep Water Cools the Southern Hemisphere." *Paleoceanography* **7**: 489-97.
- Crowley, Thomas J. (2000a). "Causes of Climate Change over the Past 1000 Years." *Science* **289**: 270-77 [doi:10.1126/science.289.5477.270].
- Crowley, Thomas J. (2000b). "CLIMAP SSTs Re-Revisited." *Climate Dynamics* **16**: 241-55.
- Crowley, Thomas J. (2002). "Cycles, Cycles Everywhere." *Science* **295**: 1473-74.
- Crowley, Thomas J., and Gerald R. North (1991). *Paleoclimatology*. New York: Oxford University Press.
- Crowther, T. W., et al. (2016). "Quantifying Global Soil Carbon Losses in Response to Warming." *Nature* **540**: 104-108 [doi:10.1038/nature20150].
- Crucifix, Michel, and André Berger (2006). "How Long Will Our Interglacial Be?" *Eos, Transactions of the American Geophysical Union* **87**: 352-53.
- Crutzen, Paul J. (1970). "The Influence of Nitrogen Oxides on the Atmospheric Ozone Content." *Quarterly J. Royal Meteorological Society* **96**: 320-25. "Biomass Burning as a Source of the Atmospheric Gases CO, H<sub>2</sub>, N<sub>2</sub>O, CH<sub>3</sub>Cl, and COS." *Nature* **282**: 253-56.

- Crutzen, Paul J., et al. (1979). "Biomass Burning as a Source of the Atmospheric Gases CO, H<sub>2</sub>, N<sub>2</sub>O, CH<sub>3</sub>Cl, and COS." *Nature* 282: 253-56.
- Crutzen, Paul J., and John W. Birks (1982). "The Atmosphere after a Nuclear War: Twilight at Noon." *Ambio* 11: 114-25.
- Crutzen, Paul J., and Eugene F. Stuermer (2000). "The 'Anthropocene'." *IGBP Newsletter* no. 41 (May): 17-18, pdf at <http://www.igbp.net/download/18.316f18321323470177580001401/1376383088452/NL41.pdf>.
- Crutzen, Paul J. (2002). "Geology of Mankind." *Nature* 415: 23 [doi.org/10.1038/415023]
- Crutzen, Paul (2006). "Albedo Enhancement by Stratospheric Sulfur Injections: A Contribution to Resolve a Policy Dilemma?" *Climatic Change* 77: 211-19 [doi:10.1007/s10584-006-9101-y].
- Crutzen, Paul J., et al. (2008). "N<sub>2</sub>O Release from Agro-Biofuel Production Negates Global Warming Reduction by Replacing Fossil Fuels." *Atmospheric Chemistry and Physics* 8: 389-95.
- Csatho, Beata M., et al. (2014). "Laser Altimetry Reveals Complex Pattern of Greenland Ice Sheet Dynamics." *Proceedings of the National Academy of Sciences* 52: 18478-18483 [doi: 10.1073/pnas.1411680112].
- Cubasch, Ulrich, et al. (1992). "Time-Dependent Greenhouse Warming Computations with a Coupled Ocean-Atmosphere Model." *Climate Dynamics* 8: 55-69 [doi:10.1007/BF00209163].
- Cuff, Madeline (2023). "A Mystery in the Pacific." *New Scientist* 259: 37-39, online at <https://www.newscientist.com/article/mg25934500-100-something-strange-is-happening-in-the-pacific-and-we-must-find-out-why/>.
- Cuffey, Kurt M. (2004). "Into an Ice Age." *Nature* 431: 133-34.
- Cunningham, Stuart A., et al. (2007). "Temporal Variability of the Atlantic Meridional Overturning Circulation at 26.5° N." *Science* 317: 935-38 [doi:10.1126/science.1141304].
- Curry, Judith A., et al. (1995). "Sea Ice-Albedo Climate Feedback Mechanism." *Journal of Climate* 9: 240-47.
- Curry, Judith A., et al. (2006). "Mixing Politics and Science in Testing the Hypothesis That Greenhouse Warming Is Causing a Global Increase in Hurricane Intensity." *Bulletin of the American Meteorological Society* 87: 1025-37 [doi:10.1175/BAMS-87-8-1025].

- Curry, Ruth, et al. (2003). "A Change in the Freshwater Balance of the Atlantic Ocean over the Past Four Decades." *Nature* **426**: 826-29.
- Curry, Ruth, and Cecilie Mauritzen (2005). "Dilution of the Northern North Atlantic Ocean in Recent Decades." *Science* **308**: 1772-74 [doi:10.1126/science.1109477].
- Curry, W. B., and G. P. Lohmann (1982). "Carbon Isotope Changes in Benthic Foraminifera from the Western South Atlantic: Reconstruction of Glacial Abyssal Circulation Patterns." *Quaternary Research* **18**: 218-35.
- Czerney, Franz von (1881). *Die Veränderlichkeit Des Klimas Und Ihre Ursachen*. Vienna:
- Dahan, Amy (2010). "Putting the Earth System in a Numerical Box? The Evolution from Climate Modeling toward Global Change." *Studies in History and Philosophy of Modern Physics* **41**: 282-92 [doi:10/1016/j.shpsb.2010.08.002].
- Dahan-Dalmedico, Amy (2001). "History and Epistemology of Models: Meteorology (1946-1963) as a Case Study." *Archive for History of Exact Sciences* **55**: 395-422.
- Dahan-Dalmedico, Amy (2007). "Models and Simulations in Climate Change. Historical, Epistemological, Anthropological and Political Aspects." In *Science without Laws: Model Systems, Cases, Exemplary Narratives*, edited by Angela N. H. Creager, Elizabeth Lunbeck and M. Norton Wise, pp. 123-. Durham, NC: Duke University Press.
- Dahan-Dalmedico, Amy (2008). "Climate Expertise: Between Scientific Credibility and Geopolitical Imperatives." *Interdisciplinary Science Reviews* **33**: 71-81 [doi:10.1179/030801808X259961].
- Dai, Aiguo, et al. (2001). "Climates of the Twentieth and Twenty-First Centuries Simulated by the NCAR Climate System Model." *Journal of Climate* **14**: 485-519.
- Dai, Aiguo (2011). "Drought under Global Warming: A Review." *Wiley Interdisciplinary Reviews: Climate Change* **2**: 45-65 [doi: 10.1002/wcc.81].
- Dai, Aiguo (2012). "Increasing Drought under Global Warming in Observations and Models." *Nature Climate Change* **3**: 52-58 [doi:10.1038/nclimate1633].
- Dalby, D., and R. J. Harrison Church (1973) *Drought in Africa. Report of Symposium, 19 July 1973*. London: Centre for African Studies, University of London.
- Dalmedico, Amy SEE See Amy Dahan-Dalmedico."
- Damon, Paul E., and Steven M. Kunen (1976). "Global Cooling?" *Science* **193**: 447-53.

- Damon, Paul E., and Steven M. Kunen (1978). "Reply to Letter Concerning the Paper 'Global Cooling?'" *Climatic Change* **1**: 387-89.
- Damon, Paul E., and Peter Laut (2004). "Pattern of Strange Errors Plagues Solar Activity and Terrestrial Climate Data." *Eos, Transactions of the American Geophysical Union* **85**: 370, 374.
- Danabasoglu, Gokhan, and Jean-François Lamarque (2021). "Building a Better Model to View Earth's Interacting Processes." *Eos, Transactions of the American Geophysical Union* **102** (March 15) [doi.org/10.1029/2021EO155818].
- Dangendorf, Sönke, et al. (2017). "Reassessment of 20th Century Global Mean Sea Level Rise." *Proceedings of the National Academy of Sciences* **114**: 5946-51 [doi:10.1073/pnas.1616007114].
- Dangendorf, Sönke, et al. (2019). "Persistent Acceleration in Global Sea-Level Rise since the 1960s." *Nature Climate Change* **9**: 705-10 [doi.org/10.1038/s41558-019-0531-8].
- Dansgaard, Willi (1954). "The O18 Abundance in Fresh Water." *Geochimica et Cosmochimica Acta* **6**: 241-60.
- Dansgaard, Willi (1964). "Stable Isotopes in Precipitation." *Tellus* **16**: 436-68.
- Dansgaard, Willi, and Henrik Tauber (1969). "Glacier Oxygen-18 Content and Pleistocene Ocean Temperatures." *Science* **166**: 499-502.
- Dansgaard, Willi, et al. (1969). "One Thousand Centuries of Climatic Record from Camp Century on the Greenland Ice Sheet." *Science* **166**: 377-81.
- Dansgaard, Willi, et al. (1971). "Climatic Record Revealed by the Camp Century Ice Core." In *The Late Cenozoic Glacial Ages*, edited by Turekian, K. K., pp. 37-56. New Haven, CT: Yale University Press.
- Dansgaard, Willi, et al. (1972). "Speculations About the Next Glaciation." *Quaternary Research* **2**: 396-98.
- Dansgaard, Willi, et al. (1973). "Stable Isotope Glaciology." *Meddelelser om Grønland* **197**: 1-53.
- Dansgaard, Willi, et al. (1982). "A New Greenland Deep Ice Core." *Science* **218**: 1273-77.
- Dansgaard, Willi, et al. (1984). "North Atlantic Climatic Oscillations Revealed by Deep Greenland Ice Cores." In *Climate Processes and Climate Sensitivity. (Geophysical Monograph 29, Maurice Ewing Vol. 5)*, edited by Hansen, James E., and Taro Takahashi, pp. 288-98. Washington, DC: American Geophysical Union.



- Dansgaard, Willi, and H. Oeschger (1989). “*The Environmental Record in Glaciers and Ice Sheets*, edited by Oeschger, H., and C.C. Langway, Jr., pp. 287-318. Chichester, UK: Wiley.
- Dansgaard, Willi, et al. (1989). “The Abrupt Termination of the Younger Dryas Climate Event.” *Nature* **339**: 532-34.
- Dansgaard, Willi, et al. (1993). “Evidence for General Instability of Climate from a 250-Kyr Ice-Core Record.” *Nature* **364**: 218-220.
- Dansgaard, Willi (2005). *Frozen Annals. Greenland Ice Sheet Research*. Copenhagen: Dept. of Geophysics of the Niels Bohr Institute at the University of Copenhagen, online at <http://www.iceandclimate.nbi.ku.dk/publications/FrozenAnnals.pdf> .
- D’arge, Ralph C., and K.C. Kogiku (1973). “Economic Growth and the Environment.” *Review of Economic Studies* **40**: 61-77.
- David, E.E., Jr. (1984). “Inventing the Future: Energy and the CO<sub>2</sub> ‘Greenhouse’ Effect.” In *Climate Processes and Climate Sensitivity. (Geophysical Monograph 29, Maurice Ewing Vol. 5)*, edited by Hansen, James E., and Taro Takahashi, pp. 1-5. Washington, DC: American Geophysical Union.
- Davidson, Keay (1999). *Carl Sagan. A Life*. New York: John Wiley.
- Davies, C.N. (1970). “Editorial.” *J. Aerosol Science* **1**: 1.
- Davies, Richard J., et al. (2024). “Long-Distance Migration and Venting of Methane from the Base of the Hydrate Stability Zone.” *Nature Geoscience* **17**: 32-37 [doi:10.1038/s41561-023-01333-w].
- Davis, Curt H., et al. (2005). “Snowfall-Driven Growth in East Antarctic Ice Sheet Mitigates Recent Sea-Level Rise.” *Science* **308**: 1898-1901 [doi:10.1126/science.1110662].
- Davis, Mary E., et al. (1995). “Recent Ice Core Climate Records from the Cordillera Blanca, Peru.” *Annals of Glaciology* **21**: 225-30.
- Davis, William Morris (1933). “Climate Changes and the Last Glacial Period.” *Science Suppl.* **77**, (10 March), p. 9.
- Dawkins, Richard (1976, 2nd ed. 1989). *The Selfish Gene*. Oxford: Oxford University Press.
- Dawson, Eliza J., et al. (2024). “Heterogeneous Basal Thermal Conditions Underpinning the Adélie-George V Coast, East Antarctica.” *Geophysical Research Letters* **51**: E2023GL105450 [doi.org/10.1029/2023GL105450].

- De Angelis, Hernan, and Pedro Skvarca (2003). "Glacier Surge after Ice Shelf Collapse." *Science* **299**: 1560-62.
- Degroot, Dagomar (2018). "Climate Change and Conflict." In *The Palgrave Handbook of Climate History*, edited by Sam White, et al., pp. 367-85. London: Palgrave MacMillan.
- De Marchi, Luigi (1895). *Le Cause Dell'era Glaciale*. Pavia: R. Istituto Lombardo.
- de Vries, H. L. (1958). "Variation in Concentration of Radiocarbon with Time and Location on Earth." *Proceedings Koninlijke Nederlandse Akademie Wetenschappen B*, **61**: 94-102.
- Deacon, G.E.R. (1957). "The Oceans." In *The Earth and Its Atmosphere*, edited by Bates, D.R., pp. 74-87. New York: Basic Books.
- DeConto, Robert M. , and David Pollard (2016). "Contribution of Antarctica to Past and Future Sea-Level Rise." *Nature* **531**: 591-97 [doi:10.1038/nature17145].
- Defant, A. (1921). "Die Zirkulation Der Atmosphäre in Den Gemässigten Breiten Der Erde." *Geografiska Annaler* **3**: 209-66.
- DeFries, Ruth, et al. (Sept. 2019). *The Missing Economic Risks in Assessments of Climate Change Impacts*. London: Grantham Research Institute on Climate Change and the Environment (15pp.) , online at <http://www.lse.ac.uk/GranthamInstitute/publication/the-missing-economic-risks-in-assessments-of-climate-change-impacts/>.
- Del Genio, Anthony D., et al. (1991). "Simulations of the Effect of a Warmer Climate on Atmospheric Humidity." *Nature* **251**: 382-85.
- Delmas, R. J., et al. (1980). "Polar Ice Evidence That Atmospheric CO<sub>2</sub> 20,000 Yr Bp Was 50% of Present." *Nature* **284**: 155-57.
- deMenocal, Peter, et al. (2000). "Coherent High- and Low-Latitude Climate Variation During the Holocene Warm Period." *Science* **288**: 2198-2202.
- Denman, K.L., et al. (2007). "Couplings between Changes Inthe Climate System and Biogeochemistry." In *Climate Change 2007: The Physical Basis of Climate Change. Contribution of Working Group I to the Fourth Assessment Report of the IPCC*, edited by Solomon, Susan, et al., pp. 500-587. Cambridge and New York: Cambridge University.
- Dennett, Daniel C. (1995). *Darwin's Dangerous Idea. Evolution and the Meanings of Life*. New York: Simon & Schuster.
- Denton, George H., and Wibjörn Karlén (1973). "Holocene Climatic Variations--Their Pattern and Possible Cause." *Quaternary Research* **3**: 155-205.

- Denton, George H., and Terence J. Hughes (1981). *The Last Great Ice Sheets*. New York: Wiley.
- Denton, George H., et al. (2010). “The Last Glacial Termination.” *Science* **328**: 1652-56 [doi:10.1126/science.1184119].
- De Pryck, Kari, and Mike Hulme (Eds.) (2022) *A Critical Assessment of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press, online at <https://www.cambridge.org/core/books/critical-assessment-of-the-intergovernmental-panel-on-climate-change/41595DD505026B0DAB58F975C03594E6>.
- Derwent, R. (1990). *Trace Gases and Their Relative Contribution to the Greenhouse Effect. Report Aere-R13716*, Harwell, Oxon, UK, Atomic Energy Research Establishment p. 95.
- Derwent, R., et al. (2006). “Global Environmental Impacts of the Hydrogen Economy.” *International Journal of Nuclear Hydrogen Production and Applications* **1**: 57-67 [doi:10.1504/IJNHPA.2006.009869].
- Descals, Adrià, et al. (2022). “Unprecedented Fire Activity above the Arctic Circle Linked to Rising Temperatures.” *Science* **378**: 532-37 [doi:10.1126/science.abn9768].
- Deser, Clara, et al. (2010). “The Seasonal Atmospheric Response to Projected Arctic Sea Ice Loss in the Late Twenty-First Century.” *Journal of Climate* **23**: 333-51 [doi.org/10.1175/2009JCLI3053.1].
- Deser, C., et al. (2012). “Communication of the Role of Natural Variability in Future North American Climate.” *Nature Climate Change* **2**: 775-79 [doi:10.1038/nclimate1562].
- Dessler, A.E., et al. (2008). “Water-Vapor Climate Feedback Inferred from Climate Fluctuations, 2003–2008.” *Geophysical Research Letters* **35**: L20704 [doi:10.1029/2008GL035333].
- Dessler, Andrew E., and Steven C. Sherwood (2009). “A Matter of Humidity.” *Science* **323**: 1020-21 [doi:10.1126/science.1171264].
- Dessler, Andrew E. (2010). “A Determination of the Cloud Feedback from Climate Variations over the Past Decade.” *Science* **330**: 1523-27 [doi:10.1126/science.119254].
- Dessler, Andrew E., and Edward A. Parson (3rd edition, 2019). *The Science and Politics of Climate Change. A Guide to the Debate*. Cambridge: Cambridge University Press.
- Detweiler, R. P., and Charles A. S. Hall (1988). “Tropical Forests and the Global Carbon Cycle.” *Science* **239**: 42-47.
- DeVorkin, David (1990). “Defending a Dream: Charles Greeley Abbot’s Years at the Smithsonian.” *J. for History of Astronomy* **21**: 121-36.

- Dewar, W. K., et al. (2006). "Does the Marine Biosphere Mix the Ocean?" *Journal of Marine Research* **64**: 541-61.
- Diamond, Jared (2004 - paperback reprint Penguin, 2005). *Collapse: How Societies Choose to Fail or Succeed*. New York: Viking.
- Dick, Philip K. (1965). *The Three Stigmata of Palmer Eldritch*. New York: Doubleday.
- Dick, Steven J. (1998). *Life on Other Worlds: The 20th-Century Extraterrestrial Life Debate*. Cambridge: Cambridge University Press.
- Dickens, Gerald R., et al. (1995). "Dissociation of Oceanic Methane Hydrate as a Cause of the Carbon Isotope Excursion at the End of the Paleocene." *Paleoceanography* **10**: 965-71.
- Dickens, Gerald R. (2003). "Rethinking the Global Carbon Cycle with a Large, Dynamic and Microbially Mediated Gas Hydrate Capacitor." *Earth and Planetary Science Letters* **213**: 169-83 [doi:10.1016/S0012-821X(03)00325-X].
- Dickinson, Robert E. (1975). "Solar Variability and the Lower Atmosphere." *Bulletin of the American Meteorological Society* **56**: 1240-48.
- Dickinson, Robert E., and Ralph J. Cicerone (1986). "Future Global Warming from Atmospheric Trace Gases." *Nature* **319**: 109-15.
- Dickinson, Robert E. (1989). "Use of Numerical Models to Project Greenhouse Gas-Induced Warming in Polar Regions." In *Ozone Depletion, Greenhouse Gases, and Climate Change. Proceedings of a Joint Symposium*, edited by National Research Council, Commission on Physical Sciences, Mathematics and Resources, Board on Atmospheric Sciences and Climate, Committee on Global Change, pp. 98-102. Washington, DC: National Academy Press.
- Dickinson, Robert E., et al. (1989). "A Regional Climate Model for Western United States." *Climatic Change* **15**: 383-422.
- Dickson, Andrew G. (1992). "The Development of the Alkalinity Concept in Marine Chemistry." *Marine Chemistry* **40**: 49-63.
- Dickson, Bob, et al. (2002). "Rapid Freshening of the Deep North Atlantic Ocean over the Past Four Decades." *Nature* **416**: 832-37.
- Dieng, H. B., et al. (2017). "New Estimate of the Current Rate of Sea Level Rise from a Sea Level Budget Approach." *Geophysical Research Letters* **44**: 3744-51 [doi:10.1002/2017GL073308].

- Diffenbaugh, Noah S. , et al. (2017). “Quantifying the Influence of Global Warming on Unprecedented Extreme Climate Events.” *Publications of the National Academy of Sciences* **114**: 4881-86 [doi:10.1073/pnas.1618082114].
- Diffenbaugh, Noah S., and Marshall Burke (2019). “Global Warming Has Increased Global Economic Inequality.” *Publications of the National Academy of Sciences* **116**: 9808-13 [https://doi.org/10.1073/pnas.1816020116].
- Dines, W.H. (1917). “The Heat Balance of the Atmosphere.” *J. Royal Meteorological Society* **43**: 151-58.
- Dingle, A. Nelson (1954). “The Carbon Dioxide Exchange between the North Atlantic Ocean and the Atmosphere.” *Tellus* **6**: 342-350.
- Dispensa, Jaclyn Marisa, and Robert J. Brulle (2003). “Media’s Social Construction of Environmental Issues: Focus on Global Warming - a Comparative Study.” *International Journal of Sociology and Social Policy* **23**: 74-105.
- Ditlevsen, Peter, and Susanne Ditlevsen (2023). “Warning of a Forthcoming Collapse of the Atlantic Meridional Overturning Circulation.” *Nature Communications* **14**: 4254 [doi:10.1038/s41467-023-39810-w].
- Dixon, R.K., et al. (1994). “Carbon Pools and Flux of Global Forest Ecosystems.” *Science* **263**: 185-90.
- Dlugokencky, E. J., et al. (2009). “Observational Constraints on Recent Increases in the Atmospheric CH<sub>4</sub> Burden.” *Geophysical Research Letters* **36**: L18803 [doi:10.1029/2009GL039780].
- Do, Hong X., et al. (2017). “A Global-Scale Investigation of Trends in Annual Maximum Streamflow.” *Journal of Hydrology* **552**: 28-43 [https://doi.org/10.1016/j.jhydrol.2017.06.015].
- Doake, C.S.M., and D.G. Vaughan (1991). “Rapid Disintegration of the Wordie Ice Shelf in Response to Atmospheric Warming.” *Nature* **350**: 328-30.
- Doake, C.S.M., et al. (1998). “Breakup and Conditions for Stability of the Northern Larsen Ice Shelf, Antarctica.” *Nature* **391**: 778-80.
- Doe, Bruce R. (1999). “A Potomac Perspective on the Growing Global Greenhouse.” *Eos, Transactions of the American Geophysical Union* **80**: 1, 4-5.
- Doel, Ron (1996). *Solar System Astronomy in America. Communities, Patronage and Interdisciplinary Science, 1920-1960*. Cambridge: Cambridge University Press.

- Doel, Ron (1997). "The Earth Sciences and Geophysics." In *Science in the Twentieth Century*, edited by Krige, John, and Dominique Pestre, pp. 361-88. London: Harwood Academic.
- Doel, Ronald E. (1998). "Geophysics in Universities." In *Sciences of the Earth. An Encyclopedia of Events, People, and Phenomena*, Vol. 1, edited by Good, Gregory A., pp. 380-84. New York: Garland.
- Doel, Ron (2002). "Why Value History?" *Eos, Transactions of the American Geophysical Union* **83**: 544-45.
- Doel, Ron (2003). "Constituting the Postwar Earth Sciences: The Military's Influence on the Environmental Sciences in American after 1945." *Social Studies of Science* **33**: 635-66.
- Doel, Ronald E., et al., eds. (2016) *Exploring Greenland: Cold War Science and Technology on Ice*. London, NY: Palgrave Macmillan.
- Doerr, Stefan H., and Cristina Santín (2016). "Global Trends in Wildfire and Its Impacts: Perceptions Versus Realities in a Changing World." *Philosophical Transactions of the Royal Society* **B371**: 20150345 [doi:10.1098/rstb.2015.0345].
- Doherty, Sarah J. (2009). "Initiative to Improve Process Representation in Chemistry-Climate Models." *Eos, Transactions of the American Geophysical Union* **90**: 206-207.
- Doherty, T. J., and S. Clayton (2011). "The Psychological Impacts of Global Climate Change." *American Psychologist* **66**: 265-76 [doi.org/10.1037/a0023141].
- Dole, Malcolm (1936). "The Relative Atomic Weight of Oxygen in Water and in Air." *Journal of Chemical Physics* **4**: 268-75 [doi:10.1063/1.1749834].
- Domestic Council, Environmental Resources Committee, Subcommittee on Climate Change (1974). *A United States Climate Program*. Washington, DC: Domestic Council.
- Donat, Markus G., et al. (2016). "More Extreme Precipitation in the World's Dry and Wet Regions." *Nature Climate Change* **6**: 508-13 [doi:10.1038/nclimate2941].
- Doney, Scott C. (2006). "Plankton in a Warmer World." *Nature* **444**: 695-96.
- Doney, Scott C., and David S. Schimel (2007). "Carbon and Climate System Coupling on Timescales from the Precambrian to the Anthropocene." In *Annual Review of Environment and Resources*, Vol. 32, edited by Matson, Pamela A., and Ashok Gadgil, pp. 31-66. Palo Alto, CA: Annual Reviews.
- Doney, Scott C., et al. (2009). "Ocean Acidification: The Other CO<sub>2</sub> Problem." *Annual Review of Marine Science* **1**: 169-92 [doi.org/10.1146/annurev.marine.010908.163834].

- Donn, W.L., and D.M. Shaw (1966). "The Heat Budgets of an Ice-Free and Ice-Covered Arctic Ocean." *J. Geophysical Research* **71**: 1087-93.
- Doolittle, W. Ford (1999). "Phylogenetic Classification and the Universal Tree." *Science* **284**: 2124-28.
- Doose, Katja (2022). "Modelling the Future: Climate Change Research in Russia During the Late Cold War and Beyond, 1970s–2000." *Climatic Change* **171**: 6.
- Doran, P.T., and M. Kendall Zimmerman (2009). "Examining the Scientific Consensus on Climate Change." *Eos, Transactions of the American Geophysical Union* **90**: 22-23 [doi:10.1029/2009EO030002].
- Dorrepaal, Ellen, et al. (2009). "Carbon Respiration from Subsurface Peat Accelerated by Climate Warming in the Subarctic." *Nature* **460**: 616-19 [doi:10.1038/nature08216].
- Dörries, Matthias (2008). "The 'Winter' Analogy Fallacy: From Superbombs to Supervolcanoes." *History of Meteorology* **4**: 41-56.
- Dörries, Matthias (2011). "The Politics of Atmospheric Sciences: 'Nuclear Winter' and Global Climate Change." *Osiris* **26**: 198-223.
- Dotto, Lydia, and Harold Schiff (1978). *The Ozone War*. Garden City, NY: Doubleday.
- Douglass, Andrew Ellicott (1936). *Climatic Cycles and Tree-Growth: A Study of the Annual Rings of Trees in Relation to Climate and Solar Activity*. Washington, DC: Carnegie Institution of Washington.
- Douglass, David H. , et al. (2008). "A Comparison of Tropical Temperature Trends with Model Predictions." *International Journal of Climatology* **28**: 1693-1701 [doi:10.1002/joc.1651].
- Douville, H., and M. Plazzotta (2017). "Midlatitude Summer Drying: An Underestimated Threat in CMIP5 Models?" *Geophysical Research Letters* **44**: 9967-75 [doi:10.1002/2017GL075353].
- Downs, Anthony (1972). "Up and Down with Ecology—the Issue-Attention Cycle." *Public Interest* **28**: 38-50.
- Drijfhout, Sybren, et al. (2015). "Catalogue of Abrupt Shifts in Intergovernmental Panel on Climate Change Climate Models." *Proceedings of the National Academy of Sciences* **112**: E5777-86 [doi:10.1073/pnas.1511451112].
- Dronia, Horst (1967). "Der Stadteinfluss Auf Den Weltweiten Temperaturtrend." *Meteorologische Abhandlungen* **74**: 1-65.

- Drozdov, O. A. (1966). "On the Variation of Precipitation over the Northern Hemisphere with Variation of the Temperature of the Polar Basin (in Russian)." *Trudy Glavnoi Geofizicheskoi Observatorii (Leningrad)* **138**: 3-16.
- Dry, Sarah (2019). *Water World: The Story of the Scientists Who Unravelled the Mysteries of Our Seas, Glaciers, and Atmosphere—and Made the Planet Whole*. Chicago: University of Chicago Press.
- Drysdale, R.N., et al. (2009). "Evidence for Obliquity Forcing of Glacial Termination II." *Science* **325**: 1527-31 [doi:10.1126/science.1170371].
- Dubois, Eugene (1895). *The Climates of the Geological Past and Their Relation to the Evolution of the Sun*. London: Sonnenschein.
- Duce, R.A., et al. (1980). "Long-Range Atmospheric Transport of Soil Dust from Asia to the Tropical North Pacific: Temporal Variability." *Science* **209**: 1522-24.
- Ducklow, Hugh W, et al. (2001). "Upper Ocean Carbon Export and the Biological Pump." *Oceanography* **14**: 50-58.
- Dudok de Wit, Thierry, et al. (Eds.) (2015) *Earth's Climate Response to a Changing Sun*. Les Ulis, France: EDP Sciences. Online at [https://www.edp-open.org/images/stories/books/fulldl/Earths\\_climate\\_response\\_to\\_a\\_changing\\_Sun.pdf](https://www.edp-open.org/images/stories/books/fulldl/Earths_climate_response_to_a_changing_Sun.pdf).
- Dudok de Wit, T., et al. (2018). "Better Data for Modeling the Sun's Influence on Climate." *Eos, Transactions of the American Geophysical Union* **99** (Sept. 4), online at <https://eos.org/project-updates/better-data-for-modeling-the-suns-influence-on-climate>.
- Duffy, Katharyn A., et al. (2021). "How Close Are We to the Temperature Tipping Point of the Terrestrial Biosphere?" *Science Advances* **7**: eaay1052 [doi:10.1126/sciadv.aay1052].
- Duncombe, J. (2021). "Climate Change and Extreme Weather Linked in U.N. Climate Report." *Eos, Transactions of the American Geophysical Union* **102** (Aug. 25), online at <https://doi.org/10.1029/2021EO162326>.
- Dunlap, Riley E., and Aaron M. McCright (2008). "A Widening Gap: Republican and Democratic Views on Climate Change." *Environment* (Sept./Oct.).
- Dunlap, Riley E. , and Peter J. Jacques (2013). "Climate Change Denial Books and Conservative Think Tanks : Exploring the Connection." *American Behavioral Scientist* **57**: 699-731 [doi: 10.1177/0002764213477096] .
- Dunne, Eimear M., et al. (2016). "Global Atmospheric Particle Formation from CERN Cloud Measurements." *Science* **354**: 1119-24 [doi:10.1126/science.aaf2649].



- Dunne, John P. (2022). "Fall and Rise of the Phytoplankton." *Nature Climate Change* **12**: 708-9 [doi:10.1038/s41558-022-01439-w].
- Duplessy, J.C., et al. (1988). "Deepwater Source Variations During the Last Climatic Cycle and Their Impact on the Global Deepwater Circulation." *Paleoceanography* **3**: 343-60.
- Durkee, Philip A, et al. (2000). "The Monterey Area Ship Track Experiment." *Journal of the Atmospheric Sciences* **57**: 2523-41 [doi.org/10.1175/1520-0469(2000)057<2523:TMASTE>2.0.CO;2].
- Dutton, A., and K. Lambeck (2012). "Ice Volume and Sea Level During the Last Interglacial." *Science* **337**: 216-19 [doi: 10.1126/science.1205749].
- Dutton, A., et al. (2015). "Sea-Level Rise Due to Polar Ice-Sheet Mass Loss During Past Warm Periods." *Science* **349**: 153 [doi:10.1126/science.aaa4019].
- Dyer, James M. (1995). "Assessment of Climatic Warming Using a Model of Forest Species Migration." *Ecological Modelling* **79**: 199-219 [doi:10.1016/0304-3800(94)00038-J].
- Dyonisius, M. N., et al. (2020). "Old Carbon Reservoirs Were Not Important in the Deglacial Methane Budget." *Science* **367**: 907-10 [doi:10.1126/science.aax0504].
- Dyurgerov, Mark B., and Mark F. Meier (2000). "Twentieth-Century Climate Change: Evidence from Small Glaciers." *Proceedings of the National Academy of Sciences* **97**: 1406-11.
- Eady, E.T. (1957). "Climate." In *The Earth and Its Atmosphere*, edited by Bates, D.R., pp. 113-29. New York: Basic Books.
- Easterbrook, Steve M. (2023). *Computing the Climate. How We Know What We Know About Climate Change*. Cambridge: Cambridge University Press.
- Easterling, David R., et al. (1997). "Maximum and Minimum Temperature Trends for the Globe." *Science* **277**: 364-67.
- Easterling, David R., et al. (2000). "Observed Climate Variability and Change of Relevance to the Biosphere." *J. Geophysical Research* **105**: 20,101-20,114.
- Easterling, D.R., and M.F. Wehner (2009). "Is the Climate Warming or Cooling?" *Geophysical Research Letters* **36**: L08706 [doi:10.1029/2009GL037810].
- Eastham, Sebastian, et al. (2021). "Improving Models for Solar Climate Intervention Research," [doi.org/10.1029/2021eo156087] "*Eos, Transactions of the American Geophysical Union* **102** (March 19) [doi.org/10.1029/2021EO156087].

- Economist* (2000). "Beyond the Hague." *Economist* **357**, no. 8199 (2 Dec.), pp. 19-20.
- Eddy, Jack A. (1975a). "Proceedings of the Workshop: The Solar Constant and the Earth's Atmosphere," edited by Zirin, H., and J. Walter, pp. 98-108. Big Bear City, CA: Big Bear Observatory.
- Eddy, Jack A. (1975b). "The Case of the Missing Sunspots." *Bulletin of the American Astronomical Society* **7**: 365. Summarized in Zirin et al. (1976)
- Eddy, Jack A. (1976). "The Maunder Minimum." *Science* **192**: 1189-1202.
- Eddy, Jack A. (1977a). "The Case of the Missing Sunspots." *Scientific American* **236**, no. 5 (May), pp. 80-92.
- Eddy, Jack A. (1977b). "Climate and the Changing Sun." *Climatic Change* **1**: 173-90.
- Eddy, Jack A. (1977c). "Historical Evidence for the Existence of the Solar Cycle." In *The Solar Output and Its Variation*, edited by White, Oran R., pp. 51-71. Boulder, CO: Colorado Associated University Press.
- Eddy, Jack A. (1980). "The Maunder Minimum: A Reappraisal." *Solar Physics* **87**.
- Eddy, Jack A. (1983). "The Solar Constant - an Editorial." *Climatic Change* **5**: 207-09.
- Edwards, Paul N. (1999). "Global Climate Science, Uncertainty and Politics: Data-Laden Models, Model-Filtered Data." *Science as Culture* **8**: 437-72.
- Edwards, Paul N. (2000a). "The World in a Machine: Origins and Impacts of Early Computerized Global System Models." In *Systems, Experts, and Computers. The Systems Approach in Management and Engineering*, edited by Hughes, Thomas P., and Agatha C. Hughes, pp. 221-53. Cambridge, MA: MIT Press.
- Edwards, Paul N. (2000b). "A Brief History of Atmospheric General Circulation Modeling." In *General Circulation Model Development*, edited by Randall, David A., pp. 67-90. San Diego, CA: Academic Press.
- Edwards, Paul N. (2001). "Representing the Global Atmosphere: Computer Models, Data, and Knowledge About Climate Change." In *Changing the Atmosphere. Expert Knowledge and Environmental Governance*, edited by Miller, Clark A., and Paul N. Edwards, pp. 31-65. Cambridge, MA: MIT Press.
- Edwards, Paul N. (2004). "'A Vast Machine': Standards as Social Technology." *Science* **304**: 827-28 [doi:10.1126/science.1099290].

- Edwards, Paul N. (2010). *A Vast Machine: Computer Models, Climate Data, and the Politics of Global Warming*. Cambridge, MA: MIT Press.
- Edwards, Paul N. (2011). "History of Climate Modeling." *WIREs Climate Change* **2**: 128-139 [doi:10.1002/wcc.95].
- Edwards, Paul N. (2022). "Peer Review." In *A Critical Assessment of the Intergovernmental Panel on Climate Change*, edited by Kari De Pryck and Mike Hulme, pp. 96-104. Cambridge: Cambridge University Press. [doi:10.1017/9781009082099.014]
- Edwards, Paul N., and Stephen H. Schneider (2001). "Self-Governance and Peer Review in Science-for-Policy: The Case of the IPCC Second Assessment Report." In *Changing the Atmosphere. Expert Knowledge and Environmental Governance*, edited by Miller, Clark A., and Paul N. Edwards, pp. 219-46. Cambridge, MA: MIT Press.
- Edwards, Tamsin L., et al. (2019). "Revisiting Antarctic Ice Loss Due to Marine Ice-Cliff Instability." *Nature* **566**: 58-64 [https://doi.org/10.1038/s41586-019-0901-4].
- Egan, Patrick J., and Megan Mullin (2016). "Recent Improvement and Projected Worsening of Weather in the United States." *Nature* **532**: 357-60 [doi:10.1038/nature17441].
- Egbert, G.D., and R.D. Ray (2000). "Significant Dissipation of Tidal Energy in the Deep Ocean Inferred from Satellite Altimeter Data." *Nature* **405**: 775-78.
- Ehhalt, D. H. (1974). "The Atmospheric Cycle of Methane." *Tellus* **26**: 58-70.
- Ehrlich, Paul R., and Anne H. Ehrlich (1970). *Population, Resources, Environment: Issues in Human Ecology*. San Francisco: Freeman.
- Ehrlich, Paul R., and J. P. Holdren (1971). "Impact of Population Growth." *Science* **171**: 1212-14.
- Ehrlich, Paul R., et al. (1977). *Ecoscience: Population, Resources, Environment*. San Francisco: W.H. Freeman.
- Ehrlich, Paul R., et al. (1983). "Long-Term Biological Consequences of Nuclear War." *Science* **222**: 1293-1300.
- Ehrlich, Paul R., et al. (1984). *The Cold and the Dark: The World after Nuclear War*. New York: W.W. Norton.
- Ekholm, Nils (1901). "On the Variations of the Climate of the Geological and Historical Past and Their Causes." *Quarterly J. Royal Meteorological Society* **27**: 1-61.

- Ekström, Göran, et al. (2006). "Seasonality and Increasing Frequency of Greenland Glacial Earthquakes." *Science* **311**: 1756-58 [doi:10.1126/science.1122112].
- Eliassen, E., et al. (1970). *On a Numerical Method for Integration of the Hydrodynamical Equations with a Spectral Representation of the Horizontal Fields*. Copenhagen: Institut for Teoretisk Meteorologi, Københavns Universitet.
- Eliassen, Arnt, and Ernst Kleinschmidt (1957). "Dynamic Meteorology." In *Geophysik II (Vol. 48 of Handbuch Der Physik)*, edited by Bartels, J., pp. 1-154. Berlin: Springer.
- Elizabeth, Yoseph, et al. (2023). "Tundra Fire Increases the Likelihood of Methane Hotspot Formation in the Yukon-Kuskokwim Delta, Alaska, USA." *Environmental Research Letters* **18**: 104042 [doi:10.1088/1748-9326/acf50b].
- Elliott, William P. (1977-89) In his papers at NOAA Air Resources Lab, Silver Springs, MD.
- Elliott, William P., et al. (1985). "An Estimate of the Biotic Contribution to the Atmospheric CO<sub>2</sub> Increase Based on Direct Measurements at Mauna Loa Observatory." *J. Geophysical Research* **90**: 3741-46.
- Elsig, Joachim, et al. (2009). "Stable Isotope Constraints on Holocene Carbon Cycle Changes from an Antarctic Ice Core." *Nature* **461**: 507-10 [doi: 10.1038/nature08393].
- Elsner, James B., et al. (2008). "The Increasing Intensity of the Strongest Tropical Cyclones." *Nature* **455**: 92-95 [doi:10.1038/nature07234].
- Emanuel, Kerry A. (1987). "The Dependence of Hurricane Intensity on Climate." *Nature* **326**: 483-85.
- Emanuel, Kerry A. (2005a). "Increasing Destructiveness of Tropical Cyclones over the Past 30 Years." *Nature* **436**: 686-88 [doi:10.1038/nature03906].
- Emanuel, Kerry A. (2005b). *Divine Wind: The History and Science of Hurricanes*. New York: Oxford University Press.
- Emanuel, Kerry (2017). "Will Global Warming Make Hurricane Forecasting More Difficult?" *Bulletin of the American Meteorological Society* **98**: 495-501 [doi.org/10.1175/BAMS-D-16-0134.1].
- Emanuel, William R., et al. (1985). "Climatic Change and the Broad-Scale Distribution of Terrestrial Ecosystem Complexes." *Climatic Change* **7**: 29-43.
- Emiliani, Cesare (1955). "Pleistocene Temperature Variations in the Mediterranean." *Quaternaria* **2**: 87-98.

- Emiliani, Cesare (1955b). "Pleistocene Temperatures." *J. Geology* **63**: 538-78.
- Emiliani, Cesare (1956). "Note on Absolute Chronology of Human Evolution." *Science* **123**: 924-26.
- Emiliani, Cesare (1957). "Temperature and Age Analysis of Deep-Sea Cores." *Science* **125**: 383-87.
- Emiliani, Cesare (1958a). "Ancient Temperatures." *Scientific American* **198**, no. 2 (Feb.), pp. 54-63.
- Emiliani, Cesare (1958b). "Pleistocene Temperatures." *J. Geology* **66**: 264-.
- Emiliani, Cesare, and Johannes Geiss (1959). "On Glaciations and Their Causes." *Geologisches Rundschau* **46**: 576-601.
- Emiliani, Cesare (1966a). "Isotopic Paleotemperatures." *Science* **154**: 851-57.
- Emiliani, Cesare (1966b). "Paleotemperature Analysis of Caribbean Cores... And a Generalized Temperature Curve for the Past 425,000 Years." *J. Geology* **74**: 109-125.
- Emiliani, Cesare (1969). "Interglacial High Sea Levels and the Control of Greenland Ice by the Precession of the Equinoxes." *Science* **166**: 1503-04.
- Emiliani, Cesare (1972). "Quaternary Paleotemperatures and the Duration of High-Temperature Intervals." *Science* **178**: 398-401..
- Emiliani, Cesare, et al. (1975). "Paleoclimatological Analysis of Late Quaternary Cores From the Northeastern Gulf of Mexico." *Science* **189**: 1083-88.
- Emiliani, Cesare (1980). "Ice Sheets and Ice Melts." *Natural History* **89**: 82-91.
- Emiliani, Cesare (1992). "Pleistocene Paleotemperatures." *Science* **257**: 1462.
- Empson, Martin (2019). *System Change Not Climate Change*. London: Bookmarks.
- Engel, Leonard (1953). "The Weather Is *Really* Changing." *New York Times Magazine* (12 July), p. 7ff.
- England, Matthew H., et al. (2014). "Recent Intensification of Wind-Driven Circulation in the Pacific and the Ongoing Warming Hiatus." *Nature Climate Change* **4**: 222-27 [doi:10.1038/nclimate2106].
- EPICA community members (Eric Wolff et al.) (2004). "Eight Glacial Cycles from an Antarctic Ice Core." *Nature* **429**: 623-28.

- EPICA community members (2006). "One-to-One Coupling of Glacial Climate Variability in Greenland and Antarctica." *Nature* **444**: 195-98 [doi:10.1038/nature05301].
- Epstein, Samuel, et al. (1970). "Antarctic Ice Sheet: Stable Isotope Analyses of Byrd Station Cores and Interhemispheric Climatic Implications." *Science* **168**: 1570-72.
- Ereaut, Gill, and Nat Segnit (2006). *Warm Words. How Are We Telling the Climate Story and Can We Tell It Better?*, London, Institute for Public Policy Research, 32pp., online at <http://www.ippr.org/publicationsandreports/publication.asp?id=485>.
- Ericson, David B., et al. (1955). "Coiling Direction of *Globorotalia Truncatulinoides* in Deep-Sea Cores." *Deep Sea Research* **2**: 152-58.
- Ericson, David B., et al. (1956). "Late-Pleistocene Climates and Deep-Sea Sediments." *Science* **124**: 385-89.
- Ericson, David B., and Goesta Wollin (1964). *The Deep and the Past*. New York: Knopf.
- Ericson, David B., and Goesta Wollin (1968). "Pleistocene Climates and Chronology in Deep-Sea Sediments." *Science* **162**: 1227-34.
- Eriksson, Erik (1954). "Report on an Informal Conference in Atmospheric Chemistry Held at the Meteorological Institute, University of Stockholm, May 24-26, 1954." *Tellus* **6**: 302-07.
- Eriksson, Erik, and Pierre Welander (1956). "On a Mathematical Model of the Carbon Cycle in Nature." *Tellus* **8**: 155-75.
- Eriksson, Erik (1968). "Air-Ocean-Icecap Interactions in Relations to Climatic Fluctuations and Glaciation Cycles." *Meteorological Monographs* **8**: 68-92.
- Erlandson, Dawn (1994). "The BTU Tax Experience: What Happened and Why It Happened." *Pace Environmental Law Review* **12**: 173-84, online at <https://digitalcommons.pace.edu/cgi/viewcontent.cgi?article=1528&context=pehr>.
- Estrada-Oyuela, Raúl (2009). "Copenhagen Needs a Strong Lead Negotiator." *Nature* **461**: 1056-57.
- Etkins, Robert, and Edward S. Epstein (1982). "The Rise of Global Mean Sea Level as an Indication of Climate Change." *Science* **215**: 287-89.
- Evans, D.L., and H.J. Freeland (1977). "Letter (with Reply)." *Science* **198**: 528-30.
- Ewing, Maurice, and William L. Donn (1956a). "A Theory of Ice Ages." *Science* **123**: 1061-65.

- Ewing, Maurice, and William L. Donn (1956b). *Polar Wandering and Continental Drift*, pp. 94-99. Tulsa, OK: Society of Economic Paleontologists and Mineralogists.
- Ewing, Maurice, and William L. Donn (1958). "A Theory of Ice Ages, II." *Science* **127**: 1159-62.
- Eyring, V., et al. (2006). "Assessment of Temperature, Trace Species, and Ozone in Chemistry-Climate Model Simulations of the Recent Past." *J. Geophysical Research* **111**: D22308 [doi:10.1029/2006JD007327].
- Fabricius, Katharina E., et al. (2011). "Losers and Winners in Coral Reefs Acclimatized to Elevated Carbon Dioxide Concentrations." *Nature Climate Change* **1**: 165-69 [doi:10.1038/nclimate1122].
- Faegre, A. (1972). "An Intransitive Model of the Earth-Atmosphere-Ocean System." *J. Applied Meteorology* **11**: 4-6.
- Faegri, Knot, et al. (2nd ed., 1964). *Textbook of Pollen Analysis*. New York: Hafner.
- Fagan, Brian (2000). *The Little Ice Age. How Climate Made History, 1300-1850*. New York: Basic.
- Fairbanks, R. G., and R.K. Matthews (1978). "The Marine Oxygen Isotope Record in Pleistocene Coral, Barbados, West Indies." *Quaternary Research* **10**: 181-96.
- Fairbridge, Rhodes W. (2009). "History of Paleoclimatology." In *Encyclopedia of Paleoclimatology and Ancient Environments*, edited by Vivien Gornitz, pp. 414-28 [doi:10.1007/978-1-4020-4411-3\_104]. Dordrecht: Springer Netherlands.
- Falkowski, P., et al. (2000). "The Global Carbon Cycle: A Test of Our Knowledge of Earth as a System." *Science* **290**: 291-96.
- Faller, Alan J. (1956). "A Demonstration of Fronts and Frontal Waves in Atmospheric Models." *J. Meteorology* **13**: 1-4.
- Farman, J.C., et al. (1985). "Large Losses of Total Ozone in Antarctica Reveal Seasonal Clox/NOx Interaction." *Nature* **315**: 207-10.
- Farrell, Justin (2015). "Network Structure and Influence of the Climate Change Counter-Movement." *Nature Climate Change* **6**: 370-74 [doi:10.1038/nclimate2875].
- Farrera, I., et al. (1999). "Tropical Climates at the Last Glacial Maximum: A New Synthesis of Terrestrial Palaeoclimate Data. I. Vegetation, Lake-Levels and Geochemistry." *Climate Dynamics* **15**: 823-56.

- Fasullo, John T., and Kevin E. Trenberth (2012). "A Less Cloudy Future: The Role of Subtropical Subsidence in Climate Sensitivity." *Science* **338**: 792-94 [doi: 10.1126/science.1227465].
- Fasullo, J. T., et al. (2016). "Is the Detection of Accelerated Sea Level Rise Imminent?" *Scientific Reports* **6**: 31245 [doi:10.1038/srep31245].
- Fauria, M. Macias, et al. (2009). "Unprecedented Low Twentieth Century Winter Sea Ice Extent in the Western Nordic Seas since A.D. 1200." *Climate Dynamics* **34**: 781-95 [doi:10.1007/s00382-009-0610-z].
- Favier, L., et al. (2014). "Retreat of Pine Island Glacier Controlled by Marine Ice-Sheet Instability." *Nature Climate Change* **4**: 117-121 [doi:10.1038/nclimate2094].
- Federal Council for Science and Technology, Interdepartmental Committee for Atmospheric Sciences (1974). *Report of the Ad Hoc Panel on the Present Interglacial*. Washington, DC:
- Federov, A.V., et al. (2006). "The Pliocene Paradox (Mechanisms for a Permanent El Niño)." *Science* **312**: 1485-89 [doi:10.1126/science.1122666].
- Fedorov, E. K. (1962). "Modifications of Meteorological Processes." *Izvestia* **9**.
- Feinberg, Matthew , and Robb Willer (2010). "Apocalypse Soon? Dire Messages Reduce Belief in Global Warming by Contradicting Just World Beliefs." online at <http://willer.berkeley.edu/FeinbergWiller2011.pdf>.
- Feldman, T.S. (1993). "The Ancient Climate in the Eighteenth and Early Nineteenth Century." In *Science and Nature. Essays in the History of the Environmental Sciences*, edited by Shortland, Michael, Oxford: British Society for the History of Science.
- Feldmann, Johannes, and Anders Levermann (2015). "Collapse of the West Antarctic Ice Sheet after Local Destabilization of the Amundsen Basin." *Proceedings of the National Academy of Sciences* **112**: 14191-96 [doi:10.1073/pnas.1512482112].
- Feng, Liang, et al. (2022). "Tropical Methane Emissions Explain Large Fraction of Recent Changes in Global Atmospheric Methane Growth Rate." *Nature communications* **13**: 1378 [doi.org/10.1038/s41467-022-28989-z].
- Fenton, Lori K., et al. (2009). "Global Warming and Climate Forcing by Recent Albedo Changes on Mars." *Nature* **446**: 646-649 [doi:10.1038/nature05711].
- Fermi, E., et al. (1965). "Studies of Non Linear Problems (Los Alamos Document La-1940, May 1955)." In *Enrico Fermi, Collected Papers. Vol. 2, United States 1939-1954*, edited by Amaldi, H., et al., pp. 978-88. Chicago: University of Chicago Press.



- Ferrari, Raffaele (2014). "Oceanography: What Goes Down Must Come Up." *Nature* **513**: 179-80 [doi:10.1038/513179a].
- Ferrari, Raffaele, et al. (2016). "Turning Ocean Mixing Upside Down." *Journal of Physical Oceanography* **46**: 2239-61 [https://doi.org/10.1175/JPO-D-15-0244.1].
- Ferris, Timothy (2010). *The Science of Liberty: Democracy, Reason, and the Laws of Nature*. New York: HarperCollins.
- Feulner, Georg, and Stefan Rahmstorf (2010). "On the Effect of a New Grand Minimum of Solar Activity on the Future Climate on Earth." *Geophysical Research Letters* **37**: L05707 [doi:10.1029/2010GL042710].
- Feulner, Georg (2012). "The Faint Young Sun Problem." *Reviews of Geophysics* **50** [https://doi.org/10.1029/2011RG000375], pdf online at <https://agupubs.onlinelibrary.wiley.com/doi/pdf/10.1029/2011RG000375>.
- Feygina, I., et al. (2010). "System Justification, the Denial of Global Warming, and the Possibility of 'System-Sanctioned Change'." *Personality and Social Psychology Bulletin* **36**: 326-38 [doi: 10.1177/0146167209351435].
- Ficklin, Darren L., et al. (2022). "Hydrological Intensification Will Increase the Complexity of Water Resource Management." *Earth's Future* **10**: e2021EF002487 [doi.org/10.1029/2021EF002487].
- Figueres, Christiana, and Tom Rivett-Carnac (2020). *The Future We Choose: Surviving the Climate Crisis*. New York: Knopf.
- Findlay, Alyssa, and Bronwyn Wake (2021). "10 Years of *Nature Climate Change*." *Nature Climate Change* **11**: 286-91 [doi.org/10.1038/s41558-021-01019-4].
- Finkbeiner, Ann (2006). *The Jasons. The Secret History of Science's Postwar Elite*. New York: Viking.
- Firestone, R.B., et al. (2007). "Evidence for an Extraterrestrial Impact 12,900 Years Ago That Contributed to the Megafaunal Extinctions and the Younger Dryas Cooling." *Publications of the National Academy of Sciences* **104**: 16016-21 [doi:10.1073/pnas.0706977104].
- Fischer, E. M., and R. Knutti (2015). "Anthropogenic Contribution to Global Occurrence of Heavy-Precipitation and High-Temperature Extremes." *Nature Climate Change* **5**: 560-64 [doi:10.1038/nclimate2617].
- Fischer, Hubertus, et al. (1999). "Ice Core Records of Atmospheric CO<sub>2</sub> around the Last Three Glacial Terminations." *Science* **283**: 1712-14 [doi:10.1126/science.283.5408.1712].

- Fischer, Hubertus, et al. (2018). "Palaeoclimate Constraints on the Impact of 2°C Anthropogenic Warming and Beyond." *Nature Geoscience* **11**: 474-85 [doi.org/10.1038/s41561-018-0146-0].
- Fisher, Arthur (1988). "One Model to Fit All." *Mosaic* **19**: 52-59.
- Fisher, Dana R., and Sohana Nasrin (2020). "Climate Activism and Its Effects." *Wiley Interdisciplinary Reviews: Climate Change*: e683 [doi.org/10.1002/wcc.683].
- Flannery, Tim (2006). *The Weather Makers*. New York: Atlantic Monthly Press.
- Fleagle, Robert G. (1992a). "From the International Geophysical Year to Global Change." *Reviews of Geophysics* **30**: 305-13.
- Fleagle, Robert G. (1992b). "The U.S. Government Response to Global Change: Analysis and Appraisal." *Climatic Change* **20**: 57-81.
- Fleagle, Robert G. (1994). *Global Environmental Change: Interactions of Science, Policy, and Politics in the United States*. Westport, CT: Praeger.
- Fleagle, Robert G. (2001). *Eyewitness: Evolution of the Atmospheric Sciences*. Boston: American Meteorological Society.
- Fleitmann, D. , et al. (2009). "Timing and Climatic Impact of Greenland Interstadials Recorded in Stalagmites from Northern Turkey." *Geophysical Research Letters* **36**: L19707 [doi:10.1029/2009GL040050].
- Fleming, James R. (1990). *Meteorology in America, 1800-1870*. Baltimore, MD: Johns Hopkins University Press.
- Fleming, James R. (1998). *Historical Perspectives on Climate Change*. New York: Oxford University Press.
- Fleming, James R (1999). "Joseph Fourier, the 'Greenhouse Effect', and the Quest for a Universal Theory of Terrestrial Temperatures." *Endeavour* **23**: 72-75.
- Fleming, James R. (2000). "T.C. Chamberlin, Climate Change, and Cosmogony." *Studies in History and Philosophy of Modern Physics* **31B**: 293-308.
- Fleming, James R. (2006). "The Pathological History of Weather and Climate Modification: Three Cycles of Promise and Hype." *Historical Studies in the Physical Sciences* **37**: 3-25 [doi:10.1525/hsp.2006.37.1.3].
- Fleming, James R. (2007a). "The Climate Engineers." *Wilson Quarterly* **31**: 46-60.

- Fleming, James R. (2007b). *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, MA: American Meteorological Society.
- Fleming, James R. (2008). "Climate Change and Anthropogenic Greenhouse Warming: A Selection of Key Articles, 1824-1995, with Interpretive Essays.": [http://nsdl.library.cornell.edu/websites/wiki/index.php/PALE\\_ClassicArticles/GlobalWarming.html](http://nsdl.library.cornell.edu/websites/wiki/index.php/PALE_ClassicArticles/GlobalWarming.html)
- Fleming, James R. (2010). *Fixing the Sky: The Checkered History of Weather and Climate Control*. New York: Columbia University Press.
- Fleming, James R., and Vladimir Jankovic (2011) *Klima (Osiris Vol. 26)*. Chicago: University of Chicago Press.
- Fleming, James R. (2016). *Inventing Atmospheric Science: Bjerknes, Rossby, Wexler, and the Foundations of Modern Meteorology*. Cambridge, MA: MIT Press.
- Fletcher, Benjamin J., et al. (2008). "Atmospheric Carbon Dioxide Linked with Mesozoic and Early Cenozoic Climate Change." *Nature Geoscience* **1**: 43-48 [doi:10.1038/ngeo.2007.2].
- Fletcher, J. O., ed. (1966) *Symposium on the Arctic Heat Budget and Atmospheric Circulation. Proceedings*. Santa Monica, CA: RAND Corp.
- Flint, Richard F., and Herbert G. Dorsey, Jr. (1945). "Iowan and Tazewell Drifts and the North American Ice-Sheet." *American J. Science* **243**: 627-36.
- Flint, Richard F. (1955). "Rates of Advance and Retreat of the Margin of the Late-Wisconsin Ice Sheet." *American J. Science* **253**: 249-55.
- Flohn, Hermann (1974). "Background of a Geophysical Model of the Initiation of the Next Glaciation." *Quaternary Research* **4**: 385-404.
- Flohn, Hermann (1979). "On Time Scales and Causes of Abrupt Paleoclimatic Events." *Quaternary Research* **12**: 135-149.
- Flores, Bernardo M., et al. (2024). "Critical Transitions in the Amazon Forest System." *Nature* **626**: 555-64 [doi:10.1038/s41586-023-06970-0].
- Flowers, E.C., et al. (1969). "Atmospheric Turbidity over the United States, 1961-1966." *J. Applied Meteorology* **8**: 955-62.
- Flückiger, J., et al. (1999). "Variations in Atmospheric N<sub>2</sub>O Concentration During Abrupt Climatic Changes" *Science* **285**: 227-30 [doi:10.1126/science.285.5425.227].

- Foley, Jonathan A. (1994). "The Sensitivity of the Terrestrial Biosphere to Climatic Change: A Simulation of the Middle Holocene." *Global Biogeochemical Cycles* **84**: 505-25.
- Foley, Jonathan A., et al. (1994). "Feedbacks between Climate and Boreal Forests During the Holocene Epoch." *Nature* **371**: 54.
- Foley, Jonathan A. (2005). "Tipping Points in the Tundra." *Science* **310**: 627-28 [doi:10.1126/science.1120104].
- Fonselius, Stig, et al. (1955). "Microdetermination of CO<sub>2</sub> in the Air, with Current Data for Scandinavia." *Tellus* **7**: 258-65.
- Fonselius, Stig, et al. (1956). "Carbon Dioxide Variations in the Atmosphere." *Tellus* **8**: 176-83.
- Fontaine, Sébastien, et al. (2007). "Stability of Organic Carbon in Deep Soil Layers Controlled by Fresh Carbon Supply." *Nature* **450**: 277-80 [doi:10.1038/nature06275].
- Foote, Eunice (1856). "Circumstances Affecting the Heat of the Sun's Rays." *American Journal of Science and Arts* **22**: 382-83.
- Forget, François, and Raymond T. Pierrehumbert (1997). "Warming Early Mars with Carbon Dioxide Clouds That Scatter Infrared Radiation." *Science* **278**: 1273-76 [doi:10.1126/science.278.5341.1273].
- Forister, M. L., et al. (2021). "Fewer Butterflies Seen by Community Scientists across the Warming and Drying Landscapes of the American West." *Science* **371**: 1042-45 [doi:10.1126/science.abb3363].
- Forster, M., et al. (2007). "Changes in Atmospheric Constituents and in Radiative Forcing." In *Climate Change 2007: The Physical Basis of Climate Change. Contribution of Working Group I to the Fourth Assessment Report of the IPCC*, edited by Solomon, Susan, et al., pp. 130-234. Cambridge and New York: Cambridge University Press.
- Forster, Piers (2017). "In Retrospect: Half a Century of Robust Climate Models." *Nature* **545**: 296-97 [doi:10.1038/545296a].
- Foster, Gavin L., et al. (2017). "Very Large Release of Mostly Volcanic Carbon During the Palaeocene-Eocene Thermal Maximum." *Nature* **548**: 573-77 [doi:10.1038/nature23646].
- Foster, Grant, and Stefan Rahmstorf (2011). "Global Temperature Evolution 1979-2010." *Environmental Research Letters* **6**: [doi:10.1088/1748-9326/6/4/044022].
- Foukal, Peter (2002). "A Comparison of Variable Solar Total and Ultraviolet Irradiance Outputs in the 20th Century." *Geophysical Research Letters* **29**: 10.1029/2002GL015474.

- Foukal, Peter (2003). "Can Slow Variations in Solar Luminosity Provide Missing Link between Sun and Climate?" *Eos, Transactions of the American Geophysical Union* **84**: 205, 208.
- Foukal, Peter, et al. (2004). "A Stellar View on Solar Variations and Climate." *Science* **306**: 68-69.
- Foukal, Peter, et al. (2006). "Variations in Solar Luminosity and Their Effect on the Earth's Climate." *Nature* **443**: 161-66 [doi:10.1038/nature05072].
- Fourier, Joseph (1824). "Remarques Générales Sur Les Températures Du Globe Terrestre Et Des Espaces Planétaires." *Annales de Chemie et de Physique* **27**: 136-67.
- Fourier, Joseph (1827). "Mémoire Sur Les Températures Du Globe Terrestre Et Des Espaces Planétaires." *Mémoires de l'Académie Royale des Sciences* **7**: 569-604.
- Fourier, Joseph (1890). *Oeuvres De Fourier*. Paris: Gauthier-Villars.
- Fowler, A. M., and K. J. Hennessy (1995). "Potential Impacts of Global Warming on the Frequency and Magnitude of Heavy Precipitation " *Natural Hazards* **11**: 283-303 [doi:10.1007/BF00613411].
- Fox, Douglas (2010). "Could East Antarctica Be Headed for Big Melt?" *Science* **328**: 1630-31.
- Francis, Jennifer A., and Elias Hunter (2006). "New Insight into the Disappearing Arctic Sea Ice." *Eos, Transactions of the American Geophysical Union* **87**: 509-11.
- Francis, Jennifer A. , and Stephen J. Vavrus (2012). "Evidence Linking Arctic Amplification to Extreme Weather in Mid-Latitudes." *Geophysical Research Letters* **39**: L06801-6 [doi:10.1029/2012GL051000].
- Francis, Jennifer A., and Stephen J. Vavrus (2015). "Evidence for a Wavier Jet Stream in Response to Rapid Arctic Warming." *Environmental Research Letters* **10**: L06801 [doi:10.1088/1748-9326/10/1/014005] online at <http://iopscience.iop.org/article/10.1088/1748-9326/10/1/014005/pdf>.
- Frank, David C., et al. (2010). "Ensemble Reconstruction Constraints on the Global Carbon Cycle Sensitivity to Climate." *Nature* **463**: 527-30 [doi:10.1038/nature08769].
- Franklin, Benjamin (1784). "Meteorological Imaginations and Conjectures (Paper Read 1784)." *Memoirs of the Literary and Philosophical Society of Manchester* **2nd ed., 1789**: 373-77. REPRINTED *Weatherwise* 35, 262 (1982).
- Franta, Benjamin (2018). "Early Oil Industry Knowledge of CO<sub>2</sub> and Global Warming." *Nature Climate Change* **8**: 1024-25 [doi:10.1038/s41558-018-0349-9].

- Franta, Benjamin (2021). "Early Oil Industry Disinformation on Global Warming." *Environmental Politics* **30**: 663-68 [doi.org/10.1080/09644016.2020.1863703]
- Franta, Benjamin (2021). "Weaponizing Economics: Big Oil, Economic Consultants, and Climate Policy Delay." *Environmental Politics* **31**: 555-75 [doi:10.1080/09644016.2021.1947636], online at <https://www.tandfonline.com/doi/full/10.1080/09644016.2021.1947636>.
- Franta, Benjamin (2022). "Weaponizing Economics: Big Oil, Economic Consultants, and Climate Policy Delay." *Environmental Politics* **31**: 555-575.
- Franz, Wendy E. (1997). *The Development of an International Agenda for Climate Change: Connecting Science to Policy* (IASA Interim Report IR-97-034) Online at <http://www.iiasa.ac.at/admin/pub/documents/ir-97-034.ps>, Laxenburg, Austria, International Institute for Applied Systems Analysis pp. 35.
- Fraser, P.J., et al. (1986). "Termites and Global Methane: Another Assessment." *J. Atmospheric Chemistry* **4**: 295-310 [doi:10.1007/BF00053806].
- Frederikse, T., et al. (2020). "The Causes of Sea-Level Rise since 1900." *Nature* **584**: 393-97 [doi.org/10.1038/s41586-020-2591-3].
- Free, Melissa, and Alan Robock (1999). "Global Warming in the Context of the Little Ice Age." *Journal of Geophysical Research* **104**: 19057-70.
- Freeman, Kenneth P., and Kuo-Nan Liou (1979). "Climatic Effects of Cirrus Clouds." *Advances in Geophysics* **21**: 231-87.
- Fricker, H.A., et al. (2007). "An Active Subglacial Water System in West Antarctica Mapped from Space." *Science* **315**: 1544-48 [doi:10.1126/science.1136897].
- Friedan, Betty (1958). "The Coming Ice Age." *Harper's* **217**, (Sept.), pp. 39-45.
- Friedlingstein, P., et al. (2001). "Positive Feedback between Future Climate Change and the Carbon Cycle." *Geophysical Research Letters* **28**: 1543-46.
- Friedlingstein, P., et al. (2006). "Climate-Carbon Cycle Feedback Analysis, Results from the C<sup>4</sup>MIP Model Intercomparison." *Journal of Climate* **19**: 3337-53.
- Friedlingstein, Pierre, et al. (2019). "Global Carbon Budget 2019." *Earth System Science Data* **11**: 1783-1838 [doi.org/10.5194/essd-11-1783-2019].
- Friedman, Robert Marc (1989). *Appropriating the Weather: Vilhelm Bjerknes and the Construction of a Modern Meteorology*. Ithaca, NY: Cornell University Press.

- Friedrich, Tobias, et al. (2016). “Nonlinear Climate Sensitivity and Its Implications for Future Greenhouse Warming.” *Science Advances* **2**: e1501923 [doi:10.1126/sciadv.1501923].
- Friel, Howard (2010). *The Lomborg Deception: Setting the Record Straight About Global Warming*. New Haven, CT: Yale University Press.
- Frieling, J., et al. (2019). “Widespread Warming before and Elevated Barium Burial During the Paleocene-Eocene Thermal Maximum: Evidence for Methane Hydrate Release?” *Paleoceanography and Paleoclimatology* **34**: 546-66 [doi.org/10.1029/2018PA003425].
- Friis-Christensen, Eigil, and K. Lassen (1991). “Length of the Solar Cycle: An Indicator of Solar Activity Closely Associated with Climate.” *Science* **254**: 698-700.
- Friis-Christensen, Eigil, and K. Lassen (1992). “Solar Variability and Temperature Changes.” *Eos, Transactions of the American Geophysical Union* **73**: 245.
- Friis-Christensen, Eigil, and Henrik Svensmark (1997). “What Do We Really Know About the Sun-Climate Connection?” *Advances in Space Research* **20**: 913-921.
- Fritts, H.C. (1962). “An Approach to Dendroclimatology: Screening by Means of Multiple Regression Techniques.” *Journal of Geophysical Research* **67**: 1413-20.
- Fritts, H.C. (rev. ed., 1976). *Tree Rings and Climate*. London: Academic Press Caldwell, NJ: Blackburn Press, 2001.
- Fritts, H.C. (1991). *Reconstructing Large-Scale Climatic Patterns from Tree Ring Data*. Tucson: University of Arizona Press.
- Fröhlich, C. (1977). “Contemporary Measures of the Solar Constant.” In *The Solar Output and Its Variation*, edited by White, Oran R., Boulder, CO: Colorado Associated University Press.
- Froitzheim, Nikolaus, et al. (2021). “Methane Release from Carbonate Rock Formations in the Siberian Permafrost Area During and after the 2020 Heat Wave.” *Proceedings of the National Academy of Sciences* **118**: e2107632118 [doi.org/10.1073/pnas.2107632118].
- From, Eric, and Charles D. Keeling (1986). “Reassessment of Late 19th-Century Atmospheric Carbon Dioxide Variations.” *Tellus* **38B**: 87-105.
- Froyd, K.D., et al. (2022). “Dominant Role of Mineral Dust in Cirrus Cloud Formation Revealed by Global-Scale Measurements.” *Nature Geoscience* **15**: 177-83 [doi.org/10.1038/s41561-022-00901-w].
- Fu, Qiang, et al. (2004). “Contribution of Stratospheric Cooling to Satellite-Inferred Tropospheric Temperature Trends.” *Nature* **429**: 55-57.

- Fuchs, N.A. (1964). *The Mechanics of Aerosols*. Oxford: Pergamon.
- Fultz, Dave (1949). "A Preliminary Report on Experiments with Thermally Produced Lateral Mixing in a Rotating Hemispheric Shell of Liquid." *J. Meteorology* **6**: 17-33.
- Fultz, Dave (1952). "On the Possibility of Experimental Models of the Polar-Front Wave." *J. Meteorology* **9**: 379-84.
- Fultz, Dave, et al. (1959). "Studies of Thermal Convection in a Rotating Cylinder with Some Implications for Large-Scale Atmospheric Motions." *Meteorological Monographs* **4**: 1-104.
- Fultz, Dave, et al. (1964). *Experimental Investigations of the Spectrum of Thermal Convective Motions in a Rotating Annulus*, Chicago, Dept. of Geophysical Sciences, University of Chicago.
- Füssel, Hans-Martin, and Richard J.T. Klein (2006). "Climate Change Vulnerability Assessments: An Evolution of Conceptual Thinking." *Climactic Change* **75**: 301-29 [doi:10.1007/s10584-006-0329-3].
- Galaasen, Eirik Vinje, et al. (2014). "Rapid Reductions in North Atlantic Deep Water During the Peak of the Last Interglacial Period." *Science* **343**: 1129-32. [doi: 10.1126/science.1248667].
- Galaasen, Eirik Vinje, et al. (2020). "Interglacial Instability of North Atlantic Deep Water Ventilation." *Science* **367**: 1485-89 [doi:10.1126/science.aay6381].
- Gams, H., and R. Nordhagen (1923). "Postglaziale Klimasänderungen [Sp?] Und Erdkrustenbewegungen in Mitteleuropa." *Mitteilungen der Geographischen Gesellschaft in München* **16**.
- Ganopolski, Andrey, and Stefan Rahmstorf (2001). "Rapid Changes of Glacial Climate Simulated in a Coupled Climate Model." *Nature* **409**: 153-58.
- Garb, Yaakov Jerome (1985). "The Use and Misuse of the Whole Earth Image." *Whole Earth Review* no. 45 (March), pp. 18-25.
- Garbe, J., et al. (2020). "The Hysteresis of the Antarctic Ice Sheet." *Nature* **585**: 538-44 [doi.org/10.1038/s41586-020-2727-5].
- Garcia, Rolando R., et al. (2012). "'World Avoided' Simulations with the Whole Atmosphere Community Climate Model." *Journal of Geophysical Research Atmospheres* **117**: D23303 [doi.org/10.1029/2012JD018430].



- Garner, Andra J. (2023). "Observed Increases in North Atlantic Tropical Cyclone Peak Intensification Rates." *Scientific Reports* **13**: 16299 [doi:10.1038/s41598-023-42669-y].
- Garner, Andra J., et al. (2017). "Impact of Climate Change on New York City's Coastal Flood Hazard: Increasing Flood Heights from the Preindustrial to 2300 Ce." *Publications of the National Academy of Sciences* **114**: 11861-66 [doi:10.1073/pnas.1703568114].
- GARP, (National Academy of Sciences, United States Committee for the Global Atmospheric Research Program) (1975). *Understanding Climatic Change: A Program for Action*. Washington, DC; Detroit, MI: National Academy of Sciences; Grand River Books.
- Gasparrini, Antonio, et al. (2017). "Projections of Temperature-Related Excess Mortality under Climate Change Scenarios." *The Lancet Planetary Health* **1**: e360-e367 [https://doi.org/10.1016/S2542-5196(17)30156-0]
- Gates, W. Lawrence (1976a). "Modeling the Ice-Age Climate." *Science* **191**: 1138-44.
- Gates, W. Lawrence (1976b). "The Numerical Simulation of Ice-Age Climate with a Global General Circulation Model." *J. Atmospheric Sciences* **33**: 1844-73.
- Gates, W. Lawrence, ed. (1979) *Report of the Study Conference on Climate Models: Performance, Intercomparison and Sensitivity Studies (Washington, D.C., April 1978)*. World Meteorological Organization, Global Atmospheric Research Program, GARP Publications Series no. 22, 2 vols.
- Gates, W. Lawrence, et al. (1999). "An Overview of the Results of the Atmospheric Model Intercomparison Project (Amip I)." *Bulletin of the American Meteorological Society* **80**: 29-55.
- Gatti, L.V., et al. (2021). "Amazonia as a Carbon Source Linked to Deforestation and Climate Change." *Nature* **595**: 388-93 [doi.org/10.1038/s41586-021-03629-6].
- Gattuso, J.-P., et al. (1998). "Effect of Calcium Carbonate Saturation of Seawater on Coral Calcification." *Global Planetary Change* **18**: 37-46.
- Gedzelman, S.D. (1980). *The Science and Wonders of the Atmosphere*. New York: Wiley.
- Gee, Henry (1989). "Government Must Spend." *Nature* **342**: 468.
- Geerts, Bart (1999). "Trends in Atmospheric Science Journals." *Bulletin of the American Meteorological Society* **80**: 639-52.
- Gehler, Alexander, et al. (2015). "Temperature and Atmospheric CO<sub>2</sub> Concentration Estimates through the PETM Using Triple Oxygen Isotope Analysis of Mammalian Bioapatite"

- Publications of the National Academy of Sciences* **113**: 7739-44 [doi:10.1073/pnas.1518116113].
- Gelbspan, Ross (1997). *The Heat Is On. The High Stakes Battle over Earth's Threatened Climate*. Reading, MA: Addison-Wesley.
- Gelbspan, Ross (2004). *Boiling Point. How Politicians, Big Oil and Coal, Journalists, and Activists Are Fueling the Climate Crisis -- and What You Can Do to Avert Disaster*. New York: Basic.
- Genthon, C., et al. (1987). "Vostok Ice Core: Climatic Response to CO<sub>2</sub> and Orbital Forcing Changes over the Last Climatic Cycle." *Nature* **329**: 414-18.
- Genuth, Joel (1987). "Groping toward Science Policy in the United States in the 1930s." *Minerva* **25**: 238-68.
- Georgi, J. (1960). "Flugzeug-Kondensfahne Erzeugt Ausgedehntes Wolkenfeld." *Zeitschrift für Meteorologie* **14**: 102.
- Gerber, P.J., et al. (2013). *Tackling Climate Change through Livestock—a Global Assessment of Emissions and Mitigation Opportunities*. Rome: Food and Agriculture Organization of the United Nations (FAO) online at <http://www.fao.org/docrep/018/i3437e/i3437e.pdf>.
- Gernon, Thomas M., et al. (2022). "Transient Mobilization of Subcrustal Carbon Coincident with Palaeocene–Eocene Thermal Maximum." *Nature Geoscience*: 573-79 [10.1038/s41561-022-00967-6].
- Gertner, Jon (2019). *The Ice at the End of the World: An Epic Journey into Greenland's Buried Past and Our Perilous Future*. New York: Random House.
- Gettelman, A., and Q. Fu (2008). "Observed and Simulated Upper-Tropospheric Water Vapor Feedback." *Journal of Climate* **21**: 3282-89 [doi: 10.1175/2007JCLI2142].
- Ghosh, Amitav (2016). *The Great Derangement: Climate Change and the Unthinkable (Berlin Family Lectures)*. Chicago University of Chicago Press.
- Ghosh, Prosenjit , and Willi A. Brand (2003). "Stable Isotope Ratio Mass Spectrometry in Global Climate Change Research." *International Journal of Mass Spectrometry* **228**: 1-33.
- Giannini, A., et al. (2003). "Oceanic Forcing of Sahel Rainfall on Interannual to Interdecadal Time Scales." *Science* **302**: 1027-30 [doi:10.1126/science.1089357].
- Giles, Jim (2002). "When Doubt Is a Sure Thing." *Nature* **418**: 476-78.
- Gill, E.G. (1982). *Atmosphere-Ocean Dynamics*. San Diego: Academic Press.

- Gilliland, Ronald L. (1981). "Solar Radius Variations over the Past 265 Years." *Astrophysical J.* **248**: 1144-55.
- Gilliland, Ronald L. (1982a). "Modeling Solar Variability." *Astrophysical J.* **253**: 399-405.
- Gilliland, Ronald L. (1982b). "Solar, Volcanic, and CO<sub>2</sub> Forcing of Recent Climatic Changes." *Climatic Change* **4**: 111-31.
- Ginsburg, A.S., and E.M. Feigelyson (1980). "Parameterization of Radiative Thermal Exchange in Models of General Circulation of the Atmosphere." In *Physics of the Atmosphere and the Problem of Climate*, pp. 42-66. Moscow: Nauka.
- Glacken, Clarence J. (1967). *Traces on the Rhodian Shore. Nature and Culture in Western Thought from Ancient Times to the End of the Eighteenth Century*. Berkeley: University of California Press.
- Gladwell, Malcolm (2000). *The Tipping Point: How Little Things Can Make a Big Difference*. New York: Little, Brown.
- Glantz, Michael H. (1977). "Nine Fallacies of Natural Disaster: The Case of the Sahel." *Climatic Change* **1**: 69-84.
- Glass, Matthew (2009). *Ultimatum*. New York: Atlantic Monthly Press.
- Gleckler, P.J., et al. (1995). "Cloud-radiative Effects on Implied Oceanic Energy Transports as Simulated by Atmospheric General Circulation Models." *Geophysical research letters* **22**: 791-94.
- Gleick, James (1987). *Chaos: Making a New Science*. New York: Viking.
- Gleissberg, W. (1966). "*J. British Astronomical Association* **76**: 265-.
- Glen, William (1982). *The Road to Jaramillo : Critical Years of the Revolution in Earth Science*. Stanford, CA: Stanford University Press.
- Glen, William (1994). *The Mass Extinction Debate: How Science Works in a Crisis*. Stanford, CA: Stanford University Press.
- Gold, Thomas (1964). "Outgassing Processes on the Moon and Venus." In *The Origin and Evolution of Atmospheres and Oceans*, edited by Brancazio, Peter J., and A. G. W. Cameron, pp. 249-65. New York: Wiley.
- Good, Gregory A. (2000). "The Assembly of Geophysics: Scientific Disciplines as Frameworks of Consensus." *Studies in History and Philosophy of Modern Physics* **31B**: 259-92.

- Goodall, Amanda H. (2008). "Why Have the Leading Journals in Management (and Other Social Sciences) Failed to Respond to Climate Change?" *Journal of Management Inquiry* **17**: 408-20.
- Gooday, G. (1994). *Cosmos, Climate, and Culture: Balfour Stewart and the Technologies of Universal Meteorology*. Paper Presented at History of Science Society Annual Meeting, New Orleans,
- Goodell, Jeff (2006). *Big Coal: The Dirty Secret Behind America's Energy Future*. Boston: Houghton Mifflin.
- Goodell, Jeff (2023). *The Heat Will Kill You First: Life and Death on a Scorched Planet*. New York: Little, Brown.
- Goody, R.M., and G.D. Robinson (1951). "Radiation in the Troposphere and Lower Stratosphere." *Reviews of Modern Meteorology* **77**: 131-87.
- Goosse, H., et al. (2006). "The Origin of the European 'Medieval Warm Period'." *Climate of the Past* **2**: 99-113.
- Gordon, Arnold L. (1986). "Interocean Exchange of Thermocline Water." *J. Geophysical Research* **91(C4)**: 5037-46.
- Gore, Albert, Jr. (1992). *Earth in the Balance: Ecology and the Human Spirit*. Boston: Houghton Mifflin.
- Gore, Al (2006). *An Inconvenient Truth*. New York: Rodale Press.
- Gornitz, V., et al. (1982). "Global Sea Level Trend in the Past Century." *Science* **215**: 1611-14.
- Gould, Stephen Jay (2002). *The Structure of Evolutionary Theory*. Cambridge, MA: Harvard University Press.
- Gounaridis, Dimitrios, and Joshua P. Newell (2024). "The Social Anatomy of Climate Change Denial in the United States." *Scientific Reports* **14**: article 2097 [doi:10.1038/s41598-023-50591-6].
- Govindasamy, Bara, et al. (2005). "Increase of Carbon Cycle Feedback with Climate Sensitivity: Results from a Coupled Climate and Carbon Cycle Model." *Tellus B* **57**: 153-63 [doi:10.1111/j.1600-0889.2005.00135.x].
- Graham, Frank , Jr. (1970). *Since Silent Spring*. Boston: Houghton Mifflin.

- Gramelsberger, Gabriele (2010). "Conceiving Processes in Atmospheric Models-General Equations, Subscale Parameterizations, and 'Superparameterizations'." *Studies in History and Philosophy of Modern Physics* **41**: 233-41.
- Grantham, Jeremy (2012). "Be Persuasive. Be Brave. Be Arrested (If Necessary)." *Nature* **491**: 303 [doi:10.1038/491303a].
- Grassl, Hartmut (2000). "Status and Improvement of Coupled General Circulation Models." *Science* **288**: 1991-97.
- Green, J.S.A. (1970). "Transfer Properties of the Large Scale Eddies and the General Circulation of the Atmosphere." *Quarterly J. Royal Meteorological Society* **96**: 157-85.
- Greenaway, Frank (1996). *Science International. A History of the International Council of Scientific Unions*. Cambridge: Cambridge University Press.
- Greenpeace (2010). *Dealing in Doubt: The Climate Denial Industry and Climate Science*. Amsterdam: Greenpeace International, Online at: <http://www.greenpeace.org/international/Global/international/planet-2/report/2010/3/dealing-in-doubt.pdf>.
- Gregg, Michael C., et al. (2003). "Reduced Mixing from the Breaking of Internal Waves in Equatorial Waters." *Nature* **422**: 513-15.
- Gregory, J. M., et al. (1997). "Summer Drought in Northern Midlatitudes in a Time-Dependent CO<sub>2</sub> Climate Experiment." *Journal of Climate* **10**: 662-86 [doi: [http://dx.doi.org/10.1175/1520-0442\(1997\)010<0662:SDINMI>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(1997)010<0662:SDINMI>2.0.CO;2)].
- Gregory, J. M., et al. (2002). "An Observationally Based Estimate of the Climate Sensitivity." *Journal of Climate* **15**: 3117-21 [doi:10.1175/1520-0442(2002)015<3117:AOBEOT>2.0.CO;2].
- Gregory, Jonathan M., et al. (2004). "Threatened Loss of the Greenland Ice-Sheet." *Nature* **428**: 616.
- Gregory, Jonathan M., et al. (2005). "A Model Intercomparison of Changes in the Atlantic Thermohaline Circulation in Response to Increasing Atmospheric CO<sub>2</sub> Concentration." *Geophysical Research Letters* **32**: L12703 [doi:10.1029/2005GL023209].
- Gregory, J.W. (1908). "Climatic Variations: Their Extent and Causes." *Smithsonian Institution Annual Report*: 339-54.
- Greve, Peter, et al. (2014). "Global Assessment of Trends in Wetting and Drying over Land." *Nature Geoscience* **7**: 716-21 [doi:10.1038/ngeo2247].

- Gribbin, John (1975). "Cause and Effects of Global Cooling." *Nature* **254**: 14.
- Gribbin, John (1976). "Man's Influence Not yet Felt by Climate." *Nature* **264**: 608.
- Gribbin, John (1978). *Climatic Change*. Cambridge: Cambridge University Press.
- Gribbin, John (1982). *Future Weather and the Greenhouse Effect*. New York: Delacorte Press.
- Gribbin, John (1988). *The Hole in the Sky: Man's Threat to the Ozone Layer*. New York: Bantam Doubleday Dell.
- Grinsted, Aslak, et al. (2013). "Projected Atlantic Hurricane Surge Threat from Rising Temperatures." *Proceedings of the National Academy of Sciences* **110**: 5369-73
- Grootes, P.M., et al. (1993). "Comparison of Oxygen Isotope Records from the GISP2 and GRIP Greenland Ice Cores (Letter to Editor)." *Nature* **366**: 552-54.
- Grossman, Daniel (2001). "Dissent in the Maelstrom." *Scientific American* (November), p. 38.
- Grossman, Daniel (2024). "Scientists under Arrest: The Researchers Taking Action over Climate Chang." *Nature* **626**: 710-12 [doi.org/10.1038/d41586-024-00480-3].
- Grotch, S.L., ed. (1988) *Regional Intercomparisons of General Circulation Model Predictions and Historical Climate Data*. Washington, DC: U.S. Department of Energy, pub. DOE/NBB-0084.
- Grousson, Mathieu, et al. (2006). "Refroidir La Terre!" *Science & vie* no. 1071 (December), pp. 54-59.
- Grove, Jean (2004). *Little Ice Ages : Ancient and Modern*. London & New York: Routledge (2nd ed.).
- Gudmundsson, G. H., et al. (2012). "The Stability of Grounding Lines on Retrograde Slopes." *Cryosphere* **6**: 1497-1505 [doi:10.5194/tc-6-1497-2012].
- Gudmundsson, G. H., et al. (2023). "Limited Impact of Thwaites Ice Shelf on Future Ice Loss from Antarctica." *Geophysical Research Letters* **50**: E2023GL102880 [doi.org/10.1029/2023GL102880].
- Guilderson, Thomas P., et al. (1994). "Tropical Temperature Variations since 20,000 Years Ago: Modulating Interhemispheric Climate Change." *Science* **263**: 663-65.
- Gunn, Kathryn L., et al. (2023). "Recent Reduced Abyssal Overturning and Ventilation in the Australian Antarctic Basin." *Nature Climate Change* **13**: 537-44 [doi.org/10.1038/s41558-023-01667-8].

- Gunson, J.R., et al. (2006). "Climate Sensitivity to Ocean Dimethylsulphide Emissions." *Geophysical Research Letters* **33**: L07701 [doi:10.1029/2005GL024982].
- Gutjahr, Marcus, et al. (2017). "Very Large Release of Mostly Volcanic Carbon During the Palaeocene-Eocene Thermal Maximum." *Nature* **548**: 573-77 [doi:10.1038/nature23646].
- Haag, Amanda (2006). "Church Joins Crusade over Climate Change." *Nature* **44**: 136-37.
- Haidt, Jonathan (2007). "The New Synthesis in Moral Psychology." *Science* **316**: 998-1002 [doi:1126/science.1137651].
- Haidvogel, Dale B., and Frank O. Bryan (1992). "Ocean General Circulation Modeling." In *Climate System Modeling*, edited by Trenberth, Kevin E., pp. 371-412. Cambridge: Cambridge University Press.
- Haigh, Joanna D. (1994). "The Role of Stratospheric Ozone in Modulating the Solar Radiative Forcing of Climate." *Nature* **370**: 544-46.
- Haigh, Joanna D. (1996). "The Impact of Solar Variability on Climate." *Science* **272**: 981-84.
- Haigh, Joanna D., et al. (2005). "The Response of Tropospheric Circulation to Perturbations in Lower-Stratospheric Temperature." *Journal of Climate* **18**: 3672-85.
- Hall, Alex, and Ronald J. Stouffer (2001). "An Abrupt Climate Event in a Coupled Ocean-Atmosphere Simulation without External Forcing." *Nature* **409**: 171-74.
- Hall, M.M., and H.L. Bryden (1982). "Direct Estimates and Mechanisms of Ocean Heat Transport." *Deep-Sea Research* **29**: 339-59.
- Hallett, J. (1983). "Progress in Cloud Physics 1979-82." *Reviews of Geophysics and Space Physics* **21**: 965-84.
- Hansell, Dennis A, et al. (2009). "Dissolved Organic Matter in the Ocean: A Controversy Stimulates New Insights." *Oceanography* **22**: 202-11 [doi.org/10.5670/oceanog.2009.109.].
- Hamblin, Jacob Darwin (2002). "The Navy's 'Sophisticated' Pursuit of Science: Undersea Warfare, the Limits of Internationalism, and the Utility of Basic Research, 1945-1956." *Isis* **93**: 1-27.
- Hamblin, Jacob Darwin (2013). *Arming Mother Nature: The Birth of Catastrophic Environmentalism*. Oxford: Oxford University Press.
- Hamilton, Wayne L., and Thomas A. Seliga (1972). "Atmospheric Turbidity and Surface Temperature on the Polar Ice Sheets." *Nature* **235**: 320-22.

- Hammer, Claus U., et al. (1980). "Greenland Ice Sheet Evidence of Post-Glacial Volcanism and Its Climatic Impact." *Nature* **288**: 230-35.
- Hammer, Claus U., et al. (1986). "Ice-Core Dating of the Pleistocene/Holocene Boundary Applied to a Calibration of the <sup>14</sup>C Time Scale." *Radiocarbon* **28**: 284-91.
- Hammer, Claus U., et al. (1997). "Greenland Summit Ice Cores." *J. Geophysical Research* **102**.
- Hammond, Allen L. (1974). "Modeling the Climate: A New Sense of Urgency." *Science* **185**: 1145-47.
- Hammond, Allen L. (1976). "Concern over Climate: Researchers Increasingly Go Public." *Science* **192**: 246-47.
- Handel, Mark David, and James S. Risbey (1992). "An Annotated Bibliography on the Greenhouse Effect and Climate Change." *Climatic Change* **21**: 97-255.
- Hanebuth, Till, et al. (2000). "Rapid Flooding of the Sunda Shelf: A Late-Glacial Sea-Level Record." *Science* **288**: 1033-35.
- Hanel, R. A., et al. (1972). "Investigation of the Martian Environment by Infrared Spectroscopy on Mariner 9." *Icarus* **17**: 423-42.
- Hanel, R.A., et al. (1972b). "The Nimbus 4 Infrared Spectroscopy Experiment. I. Calibrated Thermal Emission Spectra." *Journal of Geophysical Research* **77**: 2629-41.
- Hann, Julius (1903). *Handbook of Climatology. Translation of Handbuch Der Klimatologie, 2nd Ed. (1897)*. New York and London: Macmillan.
- Hansen, Bogi , et al. (2001). "Decreasing Overflow from the Nordic Seas into the Atlantic Ocean through the Faroe Bank Channel since 1950." *Nature* **411**: 927-30.
- Hansen, James E. (1988). "The Greenhouse Effect: Impacts on Current Global Temperature and Regional Heat Waves. Testimony to U.S. Senate, Committee on Energy and Natural Resources, June 23, 1988." Washington, DC.
- Hansen, James E. (2005). "A Slippery Slope: How Much Global Warming Constitutes 'Dangerous Anthropogenic Interference'?" (Editorial)." *Climatic Change* **68**: 269-79.
- Hansen, James E. (2007). "Scientific Reticence and Sea Level Rise." *Environmental Research Letters* **2**: [doi:10.1088/1748-9326/2/2/024002].
- Hansen, James (2009). *Storms of My Grandchildren. The Truth About the Coming Climate Catastrophe and Our Last Chance to Save Humanity*. New York: Bloomsbury USA.



- Hansen, James E., et al. (1978). "Mount Agung Eruption Provides Test of a Global Climatic Perturbation." *Science* **199**: 1065-68.
- Hansen, James E., et al. (1980). "Climatic Effects of Atmospheric Aerosols." *Annals of the New York Academy of Sciences* **338**: 575-87.
- Hansen, James E., et al. (1981). "Climate Impact of Increasing Atmospheric Carbon Dioxide." *Science* **213**: 957-66.
- Hansen, James E., et al. (1983). "Efficient Three-Dimensional Global Models for Climate Studies: Models I and II." *Monthly Weather Review* **111**: 609-62.
- Hansen, James E., et al. (1984). "Climate Sensitivity: Analysis of Feedback Mechanisms." In *Climate Processes and Climate Sensitivity. (Geophysical Monographs 29, Maurice Ewing Vol. 5)*, edited by Hansen, James E., and Taro Takahashi, pp. 130-63. Washington, DC: American Geophysical Union.
- Hansen, James E., et al. (1985). "Climate Response Times: Dependence on Climate Sensitivity and Ocean Mixing." *Science* **229**: 857-59.
- Hansen, James E., and Sergej Lebedeff (1987). "Global Trends of Measured Surface Air Temperature." *J. Geophysical Research* **92**: 13345-72.
- Hansen, James E., et al. (1987). *Prediction of near-Term Climate Evolution: What Can We Tell Decision-Makers Now?* Washington, DC: Government Institutes, Inc.
- Hansen, James E., et al. (1988). "Global Climate Changes as Forecast by Goddard Institute for Space Studies 3-Dimensional Model." *J. Geophysical Research* **93**: 9341-64.
- Hansen, J., et al. (1989). "Regional Greenhouse Climate Effects." In *Preparing for Climate Change. Proceedings of the Second North American Conference on Preparing for Climate Change, Dec. 6-8, 1988*, Washington, DC: Climate Institute, online at <http://www.columbia.edu/~jeh1/Documents/Hansen.1989.RegionalGHClimateEffects.ClimateInst.WashDC.pdf>.
- Hansen, James E., and Andrew A. Lacis (1990). "Sun and Dust Versus Greenhouse Gases: An Assessment of Their Relative Roles in Global Climate Change." *Nature* **346**: 713-19.
- Hansen, James E., et al. (1992). "Potential Climate Impact of Mount Pinatubo Eruption." *Geophysical Research Letters* **19**: 215-18 [doi:10.1029/91GL02788].
- Hansen, James E., et al. (2000a). "Climate Modeling in the Global Warming Debate." In *General Circulation Model Development*, edited by Randall, David A., pp. 127-64. San Diego, CA: Academic Press.

- Hansen, James E., et al. (2000b). "Global Warming in the Twenty-First Century: An Alternative Scenario." *Proceedings of the National Academy of Sciences* **97**: 9875-80.
- Hansen, James E., et al. (2001). "A Closer Look at United States and Global Surface Temperature Change." *J. Geophysical Research* **106**: 23,947-63.
- Hansen, James E., and L. Nazarenko (2004). "Soot Climate Forcing Via Snow and Ice Albedos." *Proceedings of the National Academy of Sciences* **101**: 423-28.
- Hansen, James E., and Makiko Sato (2004). "Greenhouse Gas Growth Rates." *Proceedings of the National Academy of Sciences* **101**: 16109-14.
- Hansen, James, et al. (2004). "The Role of Climate Perceptions, Expectations, and Forecasts in Farmer Decision Making: The Argentine Pampas and South Florida." International Research Institute for Climate Prediction (IRI), Palisades, NY: Technical Report 04-01. Pdf at [http://www.cred.columbia.edu/pdfs/publications/HansenMarxWeber\\_ClimatePerceptions\\_2004.pdf](http://www.cred.columbia.edu/pdfs/publications/HansenMarxWeber_ClimatePerceptions_2004.pdf).
- Hansen, James E., et al. (2005). "Earth's Energy Imbalance: Confirmation and Implications." *Science* **308**: 1431-35.
- Hansen, James, et al. (2006a). "Global Temperature Change." *Publications of the National Academy of Sciences* **103**: 14288-93 [doi:10.1073/pnas.0606291103].
- Hansen, James E., et al. (2006b). "Dangerous Human-Made Interference with Climate: A GISS Model Study." [ArXiv]: <http://arxiv.org/abs/physics/0610115>.
- Hansen, James, et al. (2008). "Target Atmospheric CO<sub>2</sub>: Where Should Humanity Aim?" *Open Atmospheric Science Journal* **2**: 217-31.
- Hansen, James, et al. (2011). "Earth's Energy Imbalance and Implications." *Atmospheric Chemistry and Physics* **11**: 13421-49 [doi:10.5194/acp-11-13421-2011].
- Hansen, James, et al. (2012). "Perception of Climate Change." *Proceedings of the National Academy of Sciences* **109**: E2415-E2423 [doi: 10.1073/pnas.1205276109].
- Hansen, James, et al. (2013). "Climate Forcing Growth Rates: Doubling Down on Our Faustian Bargain." *Environmental Research Letters* **8**: 011006 [doi:10.1088/1748-9326/8/1/011006].
- Hansen, J., et al. (2015). "Ice Melt, Sea Level Rise and Superstorms: Evidence from Paleoclimate Data, Climate Modeling, and Modern Observations That Global Warming Is Highly Dangerous." *Atmospheric Chemistry and Physics Discussions* **15**: 20059-79 [doi:10.5194/acpd-15-20059-2015]

- Hansen, James, et al. (2016). "Ice Melt, Sea Level Rise and Superstorms: Evidence from Paleoclimate Data, Climate Modeling, and Modern Observations That 2°C Global Warming Could Be Dangerous." *Atmospheric Chemistry and Physics* **16**: 3761-3812 [doi:10.5194/acp-16-3761-2016].
- Hansen, James E, et al. (2023). "Global Warming in the Pipeline." *Oxford Open Climate Change* **3**: kgad008 [doi:10.1093/oxfclm/kgad008].
- Hapgood, Charles H. (1958). *Earth's Shifting Crust: A Key to Some Basic Problems of Earth Science*. New York: Pantheon.
- Hardin, Garrett (1968). "The Tragedy of the Commons." *Science* **162**: 1243-48 [doi:10.1126/science.162.3859.1243].
- Hare, F.K. (1953). *The Restless Atmosphere*. London: Hutchinson.
- Harland, W.B. (1964). "Critical Evidence for a Great Infra-Cambrian Glaciation." *Geologisches Rundschau* **54**: 45-61.
- Harmer, F.W. (1901). "The Influence of the Winds Upon Climate During the Pleistocene Epoch: A Palaeometeorological Explanation of Some Geological Problems." *Quarterly J. Royal Meteorological Society* **57**: 405-78.
- Harmer, F. W. (1925). "Further Remark on the Meteorological Conditions of the Pleistocene Epoch." *Quarterly J. Royal Meteorological Society* **51**: 247-59.
- Harper, Kristine C. (2006). "Meteorology's Struggle for Professional Recognition in the USA (1900–1950)." *Annals of Science* **63**: 179-99 [doi:10.1080/00033790600554627].
- Harper, Kristine C. (2008). *Weather by the Numbers: The Genesis of Modern Meteorology*. Cambridge, MA: MIT Press. March 31, 2018
- Harper, Kristine C. (2017). *Make It Rain. State Control of the Atmosphere in Twentieth-Century America*. Chicago: University of Chicago Press.
- Harrington, Luke J., et al. (2022). "Integrating Attribution with Adaptation for Unprecedented Future Heatwaves." *Climatic Change* **172**: 2 [doi:10.1007/s10584-022-03357-4].
- Harries, John E., et al. (2001). "Increases in Greenhouse Forcing Inferred from the Outgoing Longwave Radiation Spectra of the Earth in 1970 and 1997." *Nature* **410**: 355-57 [doi:10.1038/35066553].
- Harrison, M.R. (1982). "The Media and Public Perceptions of Climatic Change." *Bulletin of the American Meteorological Society* **63**: 730-38.

- Harrison, R.Giles, and David B. Stephenson (2006). "Empirical Evidence for a Nonlinear Effect of Galactic Cosmic Rays on Clouds." *Proceedings of the Royal Society A* **462**: 1221-33 [doi:10.1098/rspa.2005.1628].
- Harriss, Robert C., et al. (1992). "The Arctic Boundary Layer Expedition (Able 3a): July-August 1988." *Journal of Geophysical Research* **D15**: 16383-94.
- Harriss, Robert C., et al. (1993). "Methane Emissions from Northern High-Latitude Wetlands." In *Biogeochemistry of Global Change*, edited by Oremland, R.S., pp. 449-86. New York: Chapman & Hall.
- Harriss, Robert C., et al. (1985). "Methane Flux from Northern Peatlands." *Nature* **315**: 652-54.
- Harshvardhan (1979). "Perturbations of the Zonal Radiative Balance by a Stratospheric Aerosol Layer." *J. Atmospheric Sciences* **36**: 1274-85.
- Harshvardhan, and R.D. Cess (1976). "Stratospheric Aerosols: Effect Upon Atmospheric Temperature and Global Climate." *Tellus* **27**: 1-10.
- Hart, David (1992). *Strategies of Research Policy Advocacy: Anthropogenic Climate Change Research, 1957-1974*. Cambridge, MA: John F. Kennedy School of Government, Harvard University.
- Hart, David M., and David G. Victor (1993). "Scientific Elites and the Making of US Policy for Climate Change Research, 1957-74." *Social Studies of Science* **23**: 643-80.
- Hart, Michael H. (1979). "Habitable Zones About Main Sequence Stars." *Icarus* **37**: 351-57.
- Harvey, H.W. (1955). *The Chemistry and Fertility of Sea Water*. Cambridge: Cambridge University Press.
- Harvey, L.D. Danny, and Stephen H. Schneider (1985). "Transient Climate Response to External Forcing on 1-1000 Year Time Scales. Part I: Experiments with Globally Averaged, Coupled, Atmosphere and Ocean Energy Balance Models." *J. Geophysical Research* **90**: 2191-2205.
- Harvey, L.D. Danny, and Zhen Huang (1995). "Evaluation of the Potential Impact of Methane Clathrate Destabilization on Future Global Warming." *Journal of Geophysical Research* **100**: 2905-26.
- Hasselmann, Klaus (1976). "Stochastic Climate Models. Part I. Theory." *Tellus* **28**: 473-85.
- Hasselmann, Klaus (1979). "On the Signal-to-Noise Problem in Atmospheric Response Studies." In *Meteorology over the Tropical Oceans*, edited by D.B. Shaw, pp. 251-59. London: Royal Meteorological Society.

- Hasselmann, Klaus (1993). "Optimal Finger Prints for the Detection of Time Dependent Climate Change." *Journal of Climate* **6**: 1957-71.
- Hastings, David W., et al. (1998). "Foraminiferal Magnesium in *Globeriginoides Sacculifer* as a Paleotemperature Proxy." *Paleoceanography* **13**: 161-69.
- Hatzianastassiou, N., et al. (2012). "Recent Regional Surface Solar Radiation Dimming and Brightening Patterns: Inter-Hemispherical Asymmetry and a Dimming in the Southern Hemisphere." *Atmospheric Science Letters* **13**: 43-48 [doi:10.1002/asl.361].
- Haurwitz, Bernhard, and J.M. Austin (1944). *Climatology*. New York: McGraw-Hill.
- Haurwitz, Bernhard (1946). "Relations between Solar Activity and the Lower Atmosphere." *Transactions of the American Geophysical Union* **27**: 161-63.
- Hausfather, Z., et al. (2020). "Evaluating the Performance of Past Climate Model Projections." *Geophysical Research Letters* **47**: e2019GL085378 [doi:10.1029/2019GL085378].
- Haustein, Karsten, and Friederike E.L. Otto (2019). "A Limited Role for Unforced Internal Variability in 20th Century Warming." *Journal of Climate* **32**: 4893-4917 [https://doi.org/10.1175/JCLI-D-18-0555.1].
- Hay, Carling C., et al. (2015). "Probabilistic Reanalysis of Twentieth-Century Sea-Level Rise." *Nature* **517**: 481-84 [doi:10.1038/nature14093].
- Hayes, Brian (2001). "The Weatherman." *American Scientist* **89**, (Jan.-Feb.), pp. 10-14.
- Hays, James D. (1973). "The Ice Age Cometh." *Saturday Review of the Sciences* **1**, no. 3 (24 March), pp. 29-32.
- Hays, James D., et al. (1976). "Variations in the Earth's Orbit: Pacemaker of the Ice Ages." *Science* **194**: 1121-32.
- Haywood, Alan M, et al. (2009). "Introduction. Pliocene Climate, Processes and Problems." *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* **367**: 3-17 [doi.org/10.1098/rsta.2008.0205].
- Haywood, Alan M., et al. (2020). "The Pliocene Model Intercomparison Project Phase 2: Large-Scale Climate Features and Climate Sensitivity." *Climate of the Past* **16**: 2095-2123 [doi.org/10.5194/cp-16-2095-2020].
- He, Yujie, et al. (2016). "Radiocarbon Constraints Imply Reduced Carbon Uptake by Soils During the 21st Century." *Science* **353**: 1419-24 [doi:10.1126/science.aad4273].

- Head, L., and T. Harada (2017). "Keeping the Heart a Long Way from the Brain: The Emotional Labour of Climate Scientists." *Emotion, Space and Society* **24**: 34-41 [https://doi.org/10.1016/j.emospa.2017.07.005].
- Hearty, Paul J., et al. (2007). "Global Sea-Level Fluctuations During the Last Interglaciation (MIS 5e)." *Quaternary Science Reviews* **26**: 2090-2112 [doi.org/10.1016/j.quascirev.2007.06.019].
- Heath, James, et al. (2005). "Rising Atmospheric CO<sub>2</sub> Reduces Sequestration of Root-Derived Soil Carbon." *Science* **309**: 1711-17 [doi:10.1126/science.1115193].
- Hecht, Alan D., and Dennis Tirpak (1995). "Framework Agreement on Climate Change: A Scientific and Policy History." *Climatic Change* **29**: 371-402.
- Hecht, Alan D. (2014). "Past, Present and Future: Urgency of Dealing with Climate Change" *Atmospheric and Climate Sciences* **4**: 779-795.
- Heffernan, Olive (2010). "The Climate Machine." *Nature* **463**: 1014-16.
- Heffernan, Olive (2016). "News Feature: Climate Research Is Gaining Ground." *Nature Climate Change* **6**: 335-38 [doi:10.1038/nclimate2974].
- Hegerl, Gabriele C., et al. (1996). "Detecting Greenhouse-Gas-Induced Climate Change with an Optimal Fingerprint Method." *Journal of Climate* **9**: 2281-2306 [doi.org/10.1175/1520-0442(1996)009<2281:DGGICC>2.0.CO;2].
- Hegerl, Gabriele, et al. (2006). "Climate Sensitivity Constrained by Temperature Reconstructions over the Past Seven Centuries." *Nature* **440**: 1029-32 [doi:10.1038/nature04679].
- Hegerl, Gabriele C., et al. (2007). "Understanding and Attributing Climate Change." In *Climate Change 2007: The Physical Basis of Climate Change. Contribution of Working Group I to the Fourth Assessment Report of the IPCC*, edited by Solomon, Susan, et al., pp. 665-745. Cambridge and New York: Cambridge University Press.
- Hegerl, Gabriele C., et al. (2019). Causes of Climate Change over the Historical Record." *Environmental Research Letters* **14**: 123006 [doi:10.1088/1748-9326/ab4557].
- Heimann, Martin, and Markus Reichstein (2008). "Terrestrial Ecosystem Carbon Dynamics and Climate Feedbacks." *Nature* **451**: 289-92 [doi:10.1038/nature06591].
- Heims, Steve J. (1980). *John Von Neumann and Norbert Wiener: From Mathematics to the Technologies of Life and Death*. Cambridge, MA: MIT Press.

- Heinrich, Hartmut (1988). "Origin and Consequences of Cyclic Ice Rafting in the Northeast Atlantic Ocean During the Past 130,000 Years." *Quaternary Research* **29**: 142-52.
- Heintzenberg, J., and Robert J. Charlson (1996). "Design and Applications of the Integrating Nephelometer: A Review." *J. Atmospheric and Oceanic Technology* **13**: 987-1000.
- Heintzenberg, Jost, and Robert J. Charlson (2009). "Introduction." In *Clouds in the Perturbed Climate System*, edited by Heintzenberg, Jost, and Robert J. Charlson, pp. 10-15. Cambridge, MA: MIT Press.
- Heinze, C., et al. (2015). "The Ocean Carbon Sink – Impacts, Vulnerabilities and Challenges." *Earth System Dynamics* **6**: 327-58 [doi:10.5194/esd-6-327-2015].
- Held, Isaac M., and Brian J. Soden (2006). "Robust Responses of the Hydrological Cycle to Global Warming." *Journal of Climate* **19**: 5686-99 [doi.org/10.1175/JCLI3990.1].
- Henderson, Gabriel (2016). "Governing the Hazards of Climate: The Development of the National Climate Program Act, 1977–1981." *Historical Studies in the Natural Sciences* **46**: 207-42 [doi:10.1525/hsns.2016.46.2.207].
- Henderson, Gabriel D. (2016). "Helmut Landsberg and the Evolution of 20th Century American Climatology: Envisioning a Climatological Renaissance." *Wiley Interdisciplinary Reviews: Climate Change* **8**: e442 [doi:10.1002/wcc.442].
- Henderson, Gabriel (2018). "Resurrecting Maunder's Ghost: John 'Jack' Eddy, the Maunder Minimum, and the Rise of a Dilettante Astrophysicist." *Annals of Science* **75**: 234-54 [doi.org/10.1080/00033790.2018.1491624].
- Henderson, Gabriel (2019). "Adhering to the 'Flashing Yellow Light': Heuristics of Moderation and Carbon Dioxide Politics During the 1970s." *Historical Studies in the Natural Sciences* **49**: 384-419 [doi:10.1525/hsns.2019.49.4.384].
- Henderson-Sellers, A., and P.J. Robinson (1986). *Contemporary Climatology*. Harlow, England: Longman.
- Henderson-Sellers, A. (1992). "Continental cloudiness changes this century," *Geojournal* **27**: 255- [doi:10.1007/BF02482666].
- Hennessy, K. J., et al. (1997). "Changes in Daily Precipitation under Enhanced Greenhouse Conditions." *Climate Dynamics* **13**: 667-80 .
- Henry, L. G., et al. (2016). "North Atlantic Ocean Circulation and Abrupt Climate Change During the Last Glaciation." *Science* **353**: 470-74 [doi:10.1126/science.aaf5529].

- Herbert, T. D., et al. (2001). "Collapse of the California Current During Glacial Maxima Linked to Climate Change on Land." *Science* **293**: 71-76 [doi:10.1126/science.1059209].
- Herbert, Timothy D., et al. (2022). "Tectonic Degassing Drove Global Temperature Trends since 20 Ma." *Science* **377**: 116-19 [doi:10.1126/science.abl4353].
- Herman, Benjamin J., et al. (1978). "Atmospheric Dust: Climatological Consequences (Exchange of Letters)." *Science* **201**: 378-79.
- Herman, John R., and Richard A. Goldberg (1978). *Sun, Weather and Climate [NASA Sp-426]*. Washington, DC: US Govt. Printing Office [reprinted Dover, 1985].
- Herman, John R. (2003). *The Metamorphosis of a Geophysicist*. Baltimore: PublishAmerica.
- Herschel, William (1801). "Observations Tending to Investigate the Nature of the Sun..." *Philosophical Transactions of the Royal Society of London* **265**: 265-318.
- Herterich, K. (1987). "On the Flow within the Transition Zone between Ice Sheet and Ice Shelf." In *Dynamics of the West Antarctic Ice Sheet*, edited by Van der Veen, C.J., and J. Oerlemans, pp. 185-202. Dordrecht: Reidel.
- Hertsgaard, Mark (2006). "While Washington Slept." *Vanity Fair* no. 549 (May), p. 200ff.
- Hewlett, Richard G., and Jack M. Holl (1989). *Atoms for Peace and War, 1953-1961: Eisenhower and the Atomic Energy Commission*. Berkeley: University of California Press.
- Heymann, Matthias (2010). "The Evolution of Climate Ideas and Knowledge." *Wiley Interdisciplinary Reviews: Climate Change* **1**: 581-97 [doi:10.1002/wcc.61].
- Heymann, Matthias (2013). "Constructing Evidence and Trust. How Did Climate Scientists' Confidence in Their Models and Simulations Emerge?" In *The Social Life of Climate Change Models*, edited by Hastrup, Kirsten, and Martin Skrydstrup, pp. 203-224. New York: Routledge.
- Heymann, Matthias, and Nils Randlev Hundebøl (2017). "From Heuristic to Predictive: Making Climate Models into Political Instruments." In *Cultures of Prediction in Atmospheric and Climate Science*, edited by Heymann, Matthias, et al., pp. 100-119. London and New York: Routledge.
- Heymann, Matthias, et al., eds. (2017) *Cultures of Prediction in Atmospheric and Climate Science*. London and New York: Routledge.



- Heymann, Matthias, and Dania Achermann (2018). "From Climatology to Climate Science in the Twentieth Century." In *The Palgrave Handbook of Climate History*, edited by Sam White, et al., pp. 605-32. London: Palgrave MacMillan.
- Heywood, A.M., and P.J. Valdes (2004). "Modeling Pliocene Warmth: Contribution of Atmosphere, Oceans and Cryosphere." *Earth and Planetary Science Letters* **218**: 363-77.
- Hickey, J.R., et al. (1980). "Initial Solar Irradiance Determination from Nimbus 7 Cavity Radiometer Measurements." *Science* **208**: 281-83.
- Hickey, J.R., et al. (1988). "Total Solar Irradiance Measurements by Erb/Nimbus 7. A Review of Nine Years." *Space Science Reviews* **48**.
- Hide, R. (1953). "Some Experiments on Thermal Convection in a Rotating Liquid." *Quarterly J. Royal Meteorological Society* **79**: 161.
- Higgins, John A., and Daniel P. Schrag (2006). "Beyond Methane: Towards a Theory for the Paleocene–Eocene Thermal Maximum." *Earth and Planetary Science Letters* **245**: 523-37 [[doi.org/10.1016/j.epsl.2006.03.009](https://doi.org/10.1016/j.epsl.2006.03.009)].
- Himpel, Kurt (1947). "Ein Beitrag Zum Eiszeitproblem." *Zeitschrift für Naturforschung* **2a**: 419-27.
- Hinkelmann, K. (1959). "Ein Numerisches Experiment Mit Den Primitiven Gleichungen." In *The Atmosphere and the Sea in Motion: Scientific Contributions to the Rossby Memorial Volume*, edited by Bolin, B., and E. Eriksson, pp. 486-500. New York: Rockefeller Institute Press.
- Hitchcock, Dian R., and James E. Lovelock (1967). "Life Detection by Atmospheric Analysis." *Icarus* **7**: 149-59.
- Hmiel, Benjamin, et al. (2020). "Preindustrial  $^{14}\text{CH}_4$  Indicates Greater Anthropogenic Fossil  $\text{CH}_4$  Emissions." *Nature* **578**: 409-12 [[doi.org/10.1038/s41586-020-1991-8](https://doi.org/10.1038/s41586-020-1991-8)].
- Hobbs, Peter V., et al. (1970). "Cloud Condensation Nuclei from Industrial Sources and Their Apparent Influence on Precipitation in Washington State." *J. Atmospheric Sciences* **27**: 81-89.
- Hobbs, Peter V., et al. (1974). "Atmospheric Effects of Pollutants." *Science* **183**: 909-15.
- Hobbs, W.H. (1926). *The Glacial Anticyclones: The Poles of the Atmospheric Circulation*. New York: Macmillan.
- Hodell, D.A., et al. (1995). "Possible Role of Climate in the Collapse of Classic Maya Civilization." *Nature* **375**: 391-94.

- Hodge, Paul W. (1971). "Large Decrease in the Clear Air Transmission of the Atmosphere 1.7 Km above Los Angeles." *Nature* **229**: 549.
- Hoerling, Martin, et al. (2012). "On the Increased Frequency of Mediterranean Drought." *Journal of Climate* **25**: 2146-61 [doi: <http://dx.doi.org/10.1175/JCLI-D-11-00296.1>].
- Hoffert, Martin I., et al. (1980). "The Role of Deep Sea Heat Storage in the Secular Response to Climatic Forcing." *J. Geophysical Research* **85**: 6667-79.
- Hoffert, Martin I., and Curt Covey (1992). "Deriving Global Climate Sensitivity from Palaeoclimate Reconstructions." *Nature* **360**: 573-76.
- Hoffert, Martin I., et al. (1999). "Solar Variability and the Earth's Climate." *Nature* **401**: 764.
- Hoffman, Andrew J. (2011). "Talking Past Each Other? Cultural Framing of Skeptical and Convinced Logics in the Climate Change Debate." *Organization & Environment* **24**: 3-33 [doi:10.1177/1086026611404336].
- Hoffman, J.S., et al. (1983). *Projecting Future Sea Level Rise. Report for the US Environmental Protection Agency*. Washington, DC: US Government Printing Office.
- Hoffmann, P. F., et al. (1998). "A Neoproterozoic Snowball Earth." *Science* **281**: 1342-46.
- Hofmann, D.J., and J.M. Rosen (1980). "Stratospheric Sulfuric Acid Layer: Evidence for an Anthropogenic Component." *Science* **208**: 1368-70 [doi:10.1126/science.208.4450.1368].
- Hofmann, D.J. (1988). "Aerosols from Past and Present Volcanic Emissions." In *Aerosols and Climate*, edited by Hobbs, Peter V., and M. Patrick McCormick, pp. 195-214. Hampton, VA: Deepak Publishing.
- Hofmann, Matthias, and Stefan Rahmstorf (2009). "On the Stability of the Atlantic Meridional Overturning Circulation." *Proceedings of the National Academy of Sciences* **106**: 20584-89 [doi: 10.1073/pnas.0909146106].
- Högbom, Arvid (1894). "Om Sannolikheten För Sekulära Förändringar I Atmosfärens Kolsyrehalt." *Svensk kemisk Tidskrift* **6**: 169-77.
- Hoggan, James, with Richard Littlemore (2009). *Climate Cover-Up. The Crusade to Deny Global Warming*. Vancouver: Greystone.
- Holland, David, and Denise Holland (2015). "On the Rocks: The Challenges of Predicting Sea Level Rise." *Eos, Transactions of the American Geophysical Union* **96**: 207-31 [doi:10.1029/2015EO036667].

- Holland, Marika M, et al. (2006). "Future Abrupt Reductions in the Summer Arctic Sea Ice." *Geophysical Research Letters* **33**: L23503 [doi:10.1029/2006GL028024].
- Holland, Paul R., et al. (2019). "West Antarctic Ice Loss Influenced by Internal Climate Variability and Anthropogenic Forcing." *Nature Geoscience* **12**: 718-24 [https://doi.org/10.1038/s41561-019-0420-9].
- Hollin, John T. (1962). "On the Glacial History of Antarctica." *J. Glaciology* **4**: 173-95.
- Hollin, John T. (1965). "Wilson's Theory of Ice Ages." *Nature* **208**: 12-16.
- Hollin, John T. (1980). "Climate and Sea Level in Isotope Stage 5: An East Antarctic Surge at ~95,000 Bp?" *Nature* **283**: 629-33.
- Hollis, Chris (2009). "Evolving Views on a Dynamic Greenhouse Earth." *Eos, Transactions of the American Geophysical Union* **90**: 194
- Holmes, Bob (2004). "Melting Ice, Global Warming." *New Scientist* **184**, no. 2467 (2 Oct.), pp. 8-9.
- Homans, Charles (2010). "Hot Air: Why Don't TV Weathermen Believe in Climate Change?" *Columbia Journalism Review*, Jan.-Feb, online at [https://archives.cjr.org/cover\\_story/hot\\_air.php](https://archives.cjr.org/cover_story/hot_air.php).
- Holzer, Mark, and Tim DeVries (2022). "Source-Labeled Anthropogenic Carbon Reveals a Large Shift of Preindustrial Carbon from the Ocean to the Atmosphere." *Global Biogeochemical Cycles* **36**: e2022GB007405 [doi.org/10.1029/2022GB007405].
- Honda, Meiji, et al. (2009). "Influence of Low Arctic Sea-Ice Minima on Anomalously Cold Eurasian Winters." *Geophysical Research Letters* **36**: L08707 [doi:10.1029/2008GL037079].
- Hornyak, Tim (2020). "Typhoons Getting Stronger, Making Landfall More Often." *Eos* **101** (Aug. 12) [doi.org/10.1029/2020EO147989].
- Hönisch, Bärbel, et al. (2012). "The Geological Record of Ocean Acidification." *Science* 1058-63 [doi:10.1126/science.1208277].
- Hood, Donald W. (1971). *Impingement of Man on the Oceans*. New York: Wiley Interscience.
- Horton, Radley M., et al. (2016). "A Review of Recent Advances in Research on Extreme Heat Events." *Current Climate Change Reports* **2**: 242-59 [10.1007/s40641-016-0042-x].
- Horwitch, Mel (1982). *Clipped Wings : The American SST Conflict*. Cambridge, MA: MIT Press.

- Houghton, David D. (1996). "Meteorology Education in the United States after 1945." In *Historical Essays on Meteorology 1919-1995*, edited by Fleming, James Rodger, pp. 541-53. Boston: American Meteorological Society.
- Houghton, Henry G. (1954). "On the Annual Heat Balance of the Northern Hemisphere." *J. Meteorology* **11**: 1-9.
- Houghton, Isabel A., et al. (2018). "Vertically Migrating Swimmers Generate Aggregation-Scale Eddies in a Stratified Column." *Nature* **556**: 497-500 [doi:10.1038/s41586-018-0044-z].
- Houghton, John T. (2nd ed., 1997). *Global Warming: The Complete Briefing*. Cambridge: Cambridge University Press.
- Houghton, John T. (2008). "Madrid 1995: Diagnosing Climate Change." *Nature* **455**: 737-38.
- Houghton, R.A., et al. (1983). "Changes in the Carbon Content of Terrestrial Biota and Soils between 1860 and 1980. A Net Release of Carbon Dioxide to the Atmosphere." *Ecological Monographs* **53**: 235-62.
- Houghton, R.A., and George M. Woodwell (1989). "Global Climatic Change." *Scientific American* **260** (April): 36-44.
- Houghton, R.A. (2007). "Balancing the Global Carbon Budget." In *Annual Review of Earth and Planetary Sciences*, Vol. **35**, edited by Jeanloz, Raymond, pp. 313-47. Palo Alto, CA: Annual Reviews.
- Houghton, John, with Gill Tavner (2013). *In the Eye of the Storm. The Autobiography of Sir John Houghton*. Oxford: Lion Books.
- Hourdin, F., et al. (2016). "The Art and Science of Climate Model Tuning." *Bulletin of the American Meteorological Society*, [<http://dx.doi.org/10.1175/BAMS-D-15-00135.1>].
- House, Frederick B., et al. (1986). "History of Satellite Missions and Measurements of the Earth Radiation Budget (1957-1984)." *Reviews of Geophysics* **24**: 357-77.
- Houtermans, J., et al. (1967). "Effect of Industrial Fuel Combustion on the Carbon-14 Level of Atmospheric CO<sub>2</sub>." In *Radioactive Dating and Methods of Low-Level Counting. Proceedings of a Symposium, Monaco, 1967*, pp. 57-68. Vienna: International Atomic Energy Agency.
- Howard, Peter , and Derek Sylvan (2015). *Expert Consensus on the Economics of Climate Change*. New York: New York University Institute for Policy Integrity online at <http://policyintegrity.org/files/publications/ExpertConsensusReport.pdf>.

- Howat, Ian M., et al. (2007). "Rapid Changes in Ice Discharge from Greenland Outlet Glaciers." *Science* **315**: 1559-61 [doi:10.1126/science.1138478].
- Howe, Joshua P. (2014). *Behind the Curve. Science and the Politics of Global Warming*. Seattle: University of Washington Press.
- Howe, Joshua P. (2017). *Making Climate Change History. Documents from Global Warming's Past*. Seattle: University of Washington Press.
- Howley, K. D. R. (2022). "Evidence of Drought Provides Clues to a Viking Mystery." *Eos, Transactions of the American Geophysical Union* **103** (4 August) [doi.org/10.1029/2022EO220375].
- Hoyle, F., and R.A. Lyttleton (1939). "The Effect of Interstellar Matter on Climatic Variation." *Proceedings of the Cambridge Philosophical Society* **35**: 405-15.
- Hoyos, C.D., et al. (2006). "Deconvolution of the Factors Contributing to the Increase in Global Hurricane Intensity." *Science* **312**: 94-97 [doi:10.1126/science.1123560].
- Hoyt, Douglas V. (1979). "An Empirical Determination of the Heating of the Earth by the Carbon Dioxide Greenhouse Effect." *Nature* **282**: 388-90.
- Hoyt, Douglas V., and Kenneth Schatten (1997). *The Role of the Sun in Climate Change*. New York: Oxford University Press.
- Hsiang, Solomon M., et al. (2013). "Quantifying the Influence of Climate on Human Conflict." *Science* **341**: 1212 [doi:10.1126/science/1235367].
- Hsieh, Chih-hao, et al. (2005). "Distinguishing Random Environmental Fluctuations from Ecological Catastrophes for the North Pacific Ocean." *Nature* **435**: 336-40 [doi:10.1038/nature03553].
- Hsü, Kenneth J. (1992). *Challenger at Sea: A Ship That Revolutionized Earth Science*. Princeton, NJ: Princeton University Press.
- Hubau, Wannes, et al. (2020). "Asynchronous Carbon Sink Saturation in African and Amazonian Tropical Forests." *Nature* **579**: 80-87 [doi.org/10.1038/s41586-020-2035-0].
- Huber, Matthew (2009). "Climate Change: Snakes Tell a Torrid Tale." *Nature* **457**: 669-71 [doi:10.1038/457669a].
- Hudson, R. D. (2012). "Measurements of the Movement of the Jet Streams at Mid-Latitudes, in the Northern and Southern Hemispheres, 1979 to 2010." *Atmospheric Chemistry and Physics* **12**: 7797-7808 [doi:10.5194/acp-12-7797-2012].

- Hufbauer, K. (1991). *Exploring the Sun: Solar Science since Galileo*. Baltimore, MD: Johns Hopkins University Press.
- Huggett, Richard (1990). *Catastrophism: Systems of Earth History*. London: Edward Arnold - Hodder & Stoughton.
- Hughes, M.K., and H. Diaz (1994). "Was There a 'Medieval Warm Period' and If So, Where and When?" *Climactic Change* **26**: 109-42.
- Hughes, T.J. (1973). "Is the West Antarctic Ice Sheet Disintegrating?" *J. Geophysical Research* **78**: 7884-7910.
- Hughes, T.J. (1977). "West Antarctic Ice Streams." *Reviews of Geophysics and Space Physics* **15**: 1-46.
- Hughes, T.J., et al. (1977). "Was There a Late-Würm Arctic Ice Sheet?" *Nature* **266**: 596-602.
- Hughes, T.J., et al. (1979). *Climatic Warming and the Collapse of the West Antarctic Ice Sheet*. Orono, ME: University of Maine.
- Hughes, Terence J. (1981). "The Weak Underbelly of the West Antarctic Ice Sheet." *Journal of Glaciology* **27**: 518-25.
- Hughes, T.J. (1982). "The Stability of the West Antarctic Ice Sheet: What Has Happened and What Will Happen." In *Carbon Dioxide Research Conference. Proceedings*, Springfield, VA: NTIS.
- Hughes, T.J. (1986). "The Jakobshavns Effect." *Geophysical Research Letters* **13**: 46-48 [doi:10.1029/GL013i001p00046].
- Hulburt, E.O. (1931). "The Temperature of the Lower Atmosphere of the Earth." *Physical Review* **38**: 1876-90.
- Hull, David L. (1989). *Science as a Process. An Evolutionary Account of the Social and Cognitive Development of Science*. Chicago: University of Chicago Press.
- Hull, Edward (1897). "Another Possible Cause of the Glacial Epoch." *Quarterly J. Geological Society of London* **53**: 107-08.
- Hulme, Mike (2009). *Why We Disagree About Climate Change*. Cambridge: Cambridge University Press.
- Hulme, Mike, and Martin Mahony (2010). "Climate Change: What Do We Know About the IPCC?" *Progress in Physical Geography* **34**: 705-18 [doi:10.1177/0309133310373719] online at

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.965.4013&rep=rep1&type=pdf>

- Humphreys, W.J. (1913). "Volcanic Dust and Other Factors in the Production of Climatic Changes, and Their Possible Relation to Ice Ages." *J. Franklin Institute* **176**: 131-72.
- Humphreys, W.J. (1920). *Physics of the Air*. Philadelphia: J.B. Lippincott.
- Humphreys, W.J. (1932). "This Cold, Cold World." *Atlantic* **150**, (Dec.), pp. 749-54.
- Humphreys, W.J. (3rd ed., 1940). *Physics of the Air*. New York: McGraw-Hill.
- Hundebøl, Nils Randley, and Kristian H. Nielsen (2014). "Challenges and Social Learning at the Climate Science-Policy Interface: The 'Long Strange Trip' of the Model Evaluation Consortium for Climate Assessment (Mecca)." *Historical Studies in the Natural Sciences* **44**: 435-69.
- Hunt, Garry E., et al. (1986). "A History of Presatellite Investigations of the Earth's Radiation Budget." *Reviews of Geophysics* **24**: 351-56.
- Huntington, Ellsworth (1914). "The Solar Hypothesis of Climate Changes." *Bulletin of the Geological Society of America* **25**: 477-590.
- Huntington, Ellsworth (1916). *Civilization and Climate*. New Haven, CT: Yale University Press.
- Huntington, Ellsworth, and Steven Sargent Visher (1922). *Climatic Changes: Their Nature and Causes*. New Haven, CT: Yale University Press.
- Huntington, Ellsworth (1923). *Earth and Sun. An Hypothesis of Weather and Sunspots*. New Haven, CT: Yale University Press.
- Husar, R.B., and D.E. Patterson (1980). "Regional Scale Air Pollution: Sources and Effects." *Annals of the New York Academy of Sciences* **338**: 399-417.
- Hutchinson, G.N. (1948). "Circular Causal Systems in Ecology." *Annals of the New York Academy of Sciences* **50**: 221-46.
- Hutchinson, G.E. (1954). "The Biochemistry of the Terrestrial Atmosphere." In *The Earth as a Planet*, edited by Kuiper, G., pp. chapter 8. Chicago: Chicago University Press.
- Huybers, P. (2005). "Comment on 'Hockey Sticks, Principal Components, and Spurious Significance' by S. McIntyre and R. Mckitrick." *Geophysical Research Letters* **32**: L20705-08 [doi:10.1029/2005GL023395].

- Huybrechts, Philippe (1990). "A 3-D Model for the Antarctic Ice-Sheet: A Sensitivity Study on the Glacial-Interglacial Contrast." *Climate Dynamics* **5**: 79-92 [doi:10.1007/BF00207423].
- Idso, Sherwood B., and Anthony J. Brazel (1977). "Planetary Radiation Balance as a Function of Atmospheric Dust: Climatological Consequences." *Science* **198**: 731-33.
- Idso, Sherwood B. (1980). "The Climatological Significance of a Doubling of Earth's Atmospheric Carbon Dioxide Concentration." *Science* **207**: 1462-63.
- Idso, Sherwood B. (1982). *Carbon Dioxide: Friend or Foe?* Tempe, AZ: IBR Press.
- Idso, Sherwood B. (1984). "The Case for Carbon Dioxide." *J. Environmental Science* **27**, no. 3 (May-June), pp. 19-22.
- Idso, Sherwood B. (1986). "Nuclear Winter and the Greenhouse Effect." *Nature* **321**: 122.
- Idso, Sherwood B. (1987). "A Clarification of My Position on the CO<sub>2</sub>/Climate Connection." *Climatic Change* **10**: 81-86.
- Idso, Sherwood B. (1989). *Carbon Dioxide and Global Change: Earth in Transition*. Tempe, AZ: Institute for Biospheric Research.
- Imada, Yukiko, et al. (2018). "Climate Change Increased the Likelihood of the 2016 Heat Extremes in Asia." *Bulletin of the American Meteorological Society* **99**: s97-s101 [doi:10.1175/bams-d-17-0109.1].
- Imada, Yukiko, et al. (2019). "The July 2018 High Temperature Event in Japan Could Not Have Happened without Human-Induced Global Warming." *Scientific Online Letters on the Atmosphere* **15A**: 8-12 [doi:10.2151/sola.15A-002].
- IMBIE team (2018). "Mass Balance of the Antarctic Ice Sheet from 1992 to 2017." *Nature* **558**: 219-22 [https://doi.org/10.1038/s41586-018-0179-y]
- Imbrie, John, and Nilva G. Kipp (1971). "A New Micropaleontological Method for Quantitative Paleoclimatology: Application to a Late Pleistocene Caribbean Core." In *The Late Cenozoic Glacial Ages*, edited by Turekian, Karl K., pp. 71-181. New Haven, CT: Yale University Press.
- Imbrie, John, and Nicholas J. Shackleton (1975). "Climatic Periodicities Documented by Power Spectra of the Oxygen Isotope Record [Cited as 'in Preparation' in Appendix a; Not Seen]." In *Understanding Climate Change: A Program for Action*, edited by Program, GARP (U.S. Committee for the Global Atmospheric Research, Washington, DC: National Academy of Sciences.



- Imbrie, John, et al. (1975). "Appendix A: Survey of Past Climates." In *Understanding Climate Change: A Program for Action*, edited by Program), GARP (U.S. Committee for the Global Atmospheric Research, pp. 127-95. Washington, DC; Detroit, MI: National Academy of Sciences; Grand River Books.
- Imbrie, John, and John Z. Imbrie (1980). "Modelling the Climatic Response to Orbital Variations." *Science* **207**: 943-53.
- Imbrie, John (1982). "Astronomical Theory of the Pleistocene Ice Ages: A Brief Historical Review." *Icarus* **50**: 408-22.
- Imbrie, John Z., et al. (1984). "The Orbital Theory of Pleistocene Climate: Support from a Revised Chronology of the Marine Delta-18O Record." In *Milankovitch and Climate. Understanding the Response to Astronomical Forcing*, edited by Berger, A., et al., pp. 269-305. Dordrecht: Reidel.
- Imbrie, John, and Katherine Palmer Imbrie (1986). *Ice Ages: Solving the Mystery*. Cambridge, MA: Harvard University Press.
- Immerwahr, John (1999). *Waiting for a Signal: Public Attitudes toward Global Warming, the Environment and Geophysical Research*. New York: Public Agenda (online at [http://www.agu.org/sci\\_soc/attitude\\_study.html](http://www.agu.org/sci_soc/attitude_study.html)).
- Impact Team (1977). *The Weather Conspiracy : The Coming of the New Ice Age*. New York: Ballantine Books.
- Indermühle, A., et al. (1999). "Holocene Carbon-Cycle Dynamics Based on CO<sub>2</sub> Trapped in Ice at Taylor Dome, Antarctica." *Nature* **398**: 121-26.
- Ineson, Sarah, et al. (2011). "Solar Forcing of Winter Climate Variability in the Northern Hemisphere." *Nature Geoscience* **4**: 753-57 [doi:10.1038/ngeo1282].
- Ingersoll, Andrew P. (1969). "The Runaway Greenhouse: A History of Water on Venus." *J. Atmospheric Sciences* **26**: 1191-98.
- Ingram, Helen, and Carole L. Mintzer (1990). "How Atmospheric Research Changed the Political Climate." In *Global Climate Change: The Meeting of Science and Policy. Issue Paper No. 1 from the Proceedings of "Understanding Global Change and Arizona," 1989*, edited by Furkhart, Ford N., et al., Tucson, AZ: University of Arizona, Udall Center for Studies in Public Policy.
- Ingram, Helen, et al. (1990). *Scientists and Agenda Setting: Advocacy and Global Warming. Paper Prepared for Western Political Science Association Annual Meeting*, Newport Beach, CA,

- Inhofe, James (2012). *The Greatest Hoax: How the Global Warming Conspiracy Threatens Your Future*. Washington, DC: WND Books.
- Inman, Mason (2008). "Carbon Is Forever." *Nature Reports Climate Change*, no. 12: 156-58 [doi:10.1038/climate.2008.122].
- Inman, Mason (2010). "Planning for Plan B." *Nature Reports: Climate Change* 4: 7-9 [doi:10.1038/climate.2010.135].
- International Council of Scientific Unions (1986). *The International Geosphere Biosphere Programme: A Study of Global Change*. Paris: ICSU.
- IPCC (1990a). *Climate Change: The IPCC Scientific Assessment. Report Prepared for IPCC by Working Group I*. Cambridge: Cambridge University Press.
- IPCC (1990b). "Policymakers' Summary." In *Climate Change: The IPCC Impacts Assessment. Report Prepared for Intergovernmental Panel on Climate Change by Working Group II* edited by Tegart, W.J. McG., et al. Canberra: Australian Government Publishing Service.
- IPCC (1990c). *Climate Change: The IPCC Impacts Assessment. Report Prepared for Intergovernmental Panel on Climate Change by Working Group II*. Canberra: Australian Government Publishing Service.
- IPCC (Intergovernmental Panel on Climate Change) (1990d). "Policymaker Summary of Working Group I (Scientific Assessment of Climate Change)." In *Climate Change: The IPCC Scientific Assessment. Report Prepared for IPCC by Working Group I*, edited by J.T. Houghton, et al. Cambridge: Cambridge University Press, online at ipcc.ch.
- IPCC (1992). *Climate Change 1992: The Supplementary Report to the IPCC Scientific Assessment*. Cambridge: Cambridge University Press.
- IPCC (1995). *Climate Change 1994: Radiative Forcing of Climate Change and an Evaluation of the IPCC Is92 Emission Scenarios*. Cambridge: Cambridge University Press.
- IPCC (1996a). *Climate Change 1995: The Science of Climate Change. Contribution of Working Group I to the Second Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.
- IPCC (1996b). *Climate Change 1995. Impacts, Adaptations and Mitigation of Climate Change: Scientific-Technical Analyses. Contribution of Working Group II to the Second Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.

- IPCC (1999). *IPCC Special Report: Aviation and the Global Atmosphere*, Cambridge, Cambridge University Press.
- IPCC (2001a). *Climate Change 2001: The Scientific Basis. Contribution of Working Group I to the Third Assessment Report of the IPCC*. Cambridge: Cambridge University Press.
- IPCC (2001b). “Summary for Policymakers.” In *Climate Change 2001: Impacts, Adaptation and Vulnerability, Contribution of Working Group II to the Third Assessment Report of the Intergovernmental Panel on Climate Change*, edited by McCarthy, J. J., and et al. Cambridge Cambridge University Press.
- IPCC (2001c). *Climate Change 2001: Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Third Assessment Report of the IPCC*. Cambridge: Cambridge University Press.
- IPCC (2007a). “Summary for Policymakers.” In *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the IPCC*, edited by Solomon, Susan, et al., pp. 1-18. Cambridge and New York: Cambridge University Press.
- IPCC (2007b). *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the IPCC*. Cambridge: Cambridge University Press.
- IPCC (2007c). *Climate Change 2007: Climate Change Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the IPCC*. Cambridge and New York: Cambridge University Press.
- IPCC (2007d). “Summary for Policymakers.” In *Climate Change 2007: Impacts, Adaptation and Vulnerability. Working Group II Contribution to the Intergovernmental Panel on Climate Change Fourth Assessment Report*, edited by Adger, Neil, et al., pp. 1-23. Cambridge and New York: Cambridge University Press.
- IPCC (2007e). *Climate Change 2007: Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge and New York: Cambridge University Press.
- IPCC (2007f). “Summary for Policymakers.” In *Climate Change 2007: Synthesis Report of the Intergovernmental Panel on Climate Change Fourth Assessment Report*, pp. 1-22. Cambridge and New York: Cambridge University Press.
- IPCC (2012) *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation*, Field, C.B., V. Barros, T.F. Stocker, D. Qin, D.J. Dokken, Et Al.. Cambridge, UK; New York, NY: Cambridge University Press.

- IPCC (2014a). “Summary for Policymakers.” In *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, edited by Stocker, T.F., et al., Cambridge: Cambridge University Press.
- IPCC (2014b). *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.
- IPCC (2014c). “Summary for Policymakers.” In *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, edited by Field, C.B., et al., pp. 1-32. Cambridge: Cambridge University Press.
- IPCC (2014d). *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press.
- IPCC (Intergovernmental Panel on Climate Change) (2014e). *Climate Change 2014 Synthesis Report. Summary for Policymakers*. Geneva: IPCC, online at <http://www.ipcc.ch/>.
- IPCC (Intergovernmental Panel on Climate Change) (2018a). *Global Warming of 1.5°C, An IPCC Special Report*. (V. Masson-Delmonte et al., eds.). Geneva, Switzerland: World Meteorological Organization; Cambridge: Cambridge University Press, online at <http://www.ipcc.ch/>
- IPCC (Intergovernmental Panel on Climate Change) (2018b). “Summary for Policymakers.” in *Global Warming of 1.5°C, An IPCC Special Report*. (V. Masson-Delmonte et al., eds.). Geneva, Switzerland: World Meteorological Organization; Cambridge: Cambridge University Press, online at <http://www.ipcc.ch/>
- IPCC (Intergovernmental Panel on Climate Change) (2021a). *Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. Geneva, Switzerland: Cambridge University Press, online at <http://www.ipcc.ch/>.
- IPCC (Intergovernmental Panel on Climate Change) (2021b). “Summary for Policymakers.” In *Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press, online at <https://www.ipcc.ch/>.
- IPCC (Intergovernmental Panel on Climate Change) (2022). *Climate Change 2022: Impacts, Adaptation, and Vulnerability*, online at <http://www.ipcc.ch/>.

- IPCC (Intergovernmental Panel on Climate Change) (2022). *Climate Change 2022: Mitigation of Climate Change. Working Group III Contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge: Cambridge University Press, online at [ipcc.ch](http://ipcc.ch).
- Irigoien, Xabier, et al. (2014). "Large Mesopelagic Fishes Biomass and Trophic Efficiency in the Open Ocean." *Nature Communications* **5**: 3271 [doi:10.1038/ncomms4271].
- Isaksen, Ivar S.A., and Oystein Hov (1987). "Calculations of Trends in the Tropospheric Concentrations of O<sub>3</sub>, OH, CO, CH<sub>4</sub> and NO<sub>x</sub>." *Tellus* **39B**: 271-85.
- Ismail-Zadeh, Alik, and Jo Ann Joselyn (2019). "IUGG: Beginning, Establishment, and Early Development (1919–1939)." *History of Geo-and Space Sciences* **10**: 25-44 [https://doi.org/10.5194/hgss-10-25-2019].
- Issar, Arie S. (1990). *Water Shall Flow from the Rock : Hydrogeology and Climate in the Lands of the Bible*. Berlin, New York: Springer-Verlag.
- Ives, J. D. (1957). "Glaciation of the Torngat Mountains, Northern Labrador." *Arctic* **10**: 67-87.
- Ives, J. D. (1958). "Glacial Geomorphology of the Torngat Mountains, Northern Labrador." *Geographical Bulletin (Canada)* **17**: 47-75.
- Ives, J. D. (1962). "Indications of Recent Extensive Glacierization in Northcentral Baffin Island, NWT." *J. Glaciology* **4**: 197-205.
- Jacob, Margaret C. (1991). *Living the Enlightenment: Freemasonry and Politics in Eighteenth-Century Europe*. New York: Oxford University Press.
- Jacob, Margaret C. (2006). *Strangers Nowhere in the World. The Rise of Cosmopolitanism in Early Modern Europe*. Philadelphia: University of Pennsylvania Press.
- Jacobs, Robert (2011). "Whole Earth or No Earth: The Origin of the Whole Earth Icon in the Ashes of Hiroshima and Nagasaki." *The Asia-Pacific Journal* **9** (March 28) Online at <http://japanfocus.org/-Robert-Jacobs/3505>.
- Jacobson, Mark Z. (2001). "Strong Radiative Heating Due to the Mixing State of Black Carbon in Atmospheric Aerosols." *Nature* **409**: 695-98.
- Jackson, Laura C., et al. (2016). "Recent Slowing of Atlantic Overturning Circulation as a Recovery from Earlier Strengthening." *Nature Geoscience* **9**: 518-22 [doi:10.1038/ngeo2715].

- Jacques, Peter J., et al. (2008). "The Organisation of Denial: Conservative Think Tanks and Environmental Scepticism" *Environmental Politics* **17**: 349-85 [doi:10.1080/09644010802055576].
- Jaeger, Carlo C., and Julia Jaeger (2011). "Three Views of Two Degrees." *Regional Environmental Change* **11**: S15-S26 [doi:10.1007/s10113-010-0190-9].
- Jaeger, Jill *see* Jäger
- Jäger, Jill (1992). "From Conference to Conference." *Climatic Change* **20**: iii-vii.
- Jamieson, Dale (2014). *Reason in a Dark Time: Why the Struggle against Climate Change Failed—and What It Means for Our Future*. New York: Oxford University Press.
- Jansen, E., et al. (2007). "Palaeoclimate." In *Climate Change 2007: The Physical Basis of Climate Change. Contribution of Working Group I to the Fourth Assessment Report of the IPCC*, edited by Solomon, Susan, et al., pp. 434-97. Cambridge and New York: Cambridge University Press.
- Jasanoff, Sheila (2001). "Image and Imagination: The Formation of Global Environmental Consciousness." In *Changing the Atmosphere. Expert Knowledge and Environmental Governance*, edited by Miller, Clark A., and Paul N. Edwards, pp. 309-37. Cambridge, MA: MIT Press.
- JASON (Gordon MacDonald, chair) (1979). *The Long Term Impact of Atmospheric Carbon Dioxide on Climate (Technical Report Jsr-78-07)*, Arlington, VA [copy in Hans Suess Papers, MSS 0199, University of California, San Diego Central University Library, La Jolla, CA], SRI International
- Jehn, Florian U., et al. (2022). "Focus of the IPCC Assessment Reports Has Shifted to Lower Temperatures." *Earth's Future* **10**: e2022EF002876 [doi.org/10.1029/2022EF002876].
- Jenkinson, D. S., et al. (1991). "Model Estimates of CO<sub>2</sub> Emissions from Soil in Response to Global Warming." *Nature* **351**: 304-06 [doi:10.1038/351304a0].
- Jennings, S. Gerard, ed. (1993) *Aerosol Effects on Climate*. Tucson: University of Arizona Press.
- Jensen, James E. (1990). *An Unholy Trinity: Science, Politics and the Press (Unpublished Talk)*,
- Jeong, Jee-Hoon, et al. (2014). "Intensified Arctic Warming under Greenhouse Warming by Vegetation-Atmosphere-Sea Ice Interaction." *Environmental Research Letters* **9**: 094007 [doi:10.1088/1748-9326/9/9/094007].
- Joel, L. (2018). "New Version of Popular Climate Model Released." *Eos, Transactions of the American Geophysical Union* **99** (June 22) [https://doi.org/10.1029/2018EO101489].

- Johnsen, S.J., et al. (1970). "Climatic Oscillations 1200-2000 A.D." *Nature* **227**: 482-83.
- Johnsen, S.J., et al. (1972). "Oxygen Isotope Profiles through the Antarctic and Greenland Ice Sheets." *Nature* **235**: 429-34.
- Johnsen, S.J., et al. (1992). "Irregular Glacial Interstadials Recorded in a New Greenland Ice Core." *Nature* **359**: 311-13.
- Johnson, David S. (1994). "Evolution of the U.S. Meteorological Satellite Program: Some Reminiscences." *Bulletin of the American Meteorological Society* **75**: 1705-08.
- Johnson, Donald R., and Akio Arakawa (1996). "On the Scientific Contributions and Insight of Professor Yale Mintz." *J. Climate* **9**.
- Johnston, Fay H, et al. (2012). "Estimated Global Mortality Attributable to Smoke from Landscape Fires." *Environmental Health Perspectives* **120**: 695-701 [doi.org/10.1289/ejohnp.1104422].
- Johnston, H. (1971). "Reduction of Stratospheric Ozone by Nitrogen Oxide Catalysts from Supersonic Transport Exhaust." *Science* **173**: 517-22.
- Johnson, Helen L., et al. (2019). "Recent Contributions of Theory to Our Understanding of the Atlantic Meridional Overturning Circulation." *Journal of Geophysical Research: Oceans* **124**: 5376-99 [https://doi.org/10.1029/2019JC015330].
- Johnson, R.G., and B.T. McClure (1976). "A Model for Northern Hemisphere Continental Ice Sheet Variations." *Quaternary Research* **6**: 325-53.
- Jolly, W. Matt , et al. (2015). "Climate-Induced Variations in Global Wildfire Danger from 1979 to 2013." *Nature Communications* **6**, 7537 [doi:10.1038/ncomms8537].
- Jones, A., et al. (1994). "A Climate Model Study of Indirect Radiative Forcing by Anthropogenic Sulphate Aerosols." *Nature* **370**: 450-53 [doi:10.1038/370450a0].
- Jones, A. , et al. (2010). "Geoengineering by Stratospheric SO<sub>2</sub> Injection: Results from the Met Office HadGEM2 Climate Model and Comparison with the Goddard Institute for Space Studies Model." *Atmospheric Chemistry and Physics* **10**: 5999-6006 [doi:10.5194/acp-10-5999-2010].
- Jones, M.D.H., and A. Henderson-Sellers (1990). "History of the Greenhouse Effect." *Progress in Physical Geography* **14**: 1-18.
- Jones, P.D., et al. (1982). "Variations of Surface Air Temperatures. Part I: Northern Hemisphere, 1881-1980." *Monthly Weather Review* **110**: 59-70.

- Jones, P.D., et al. (1986a). "Global Temperature Variations between 1861 and 1984." *Nature* **322**: 430-434.
- Jones, P.D., et al. (1986b). "Northern Hemisphere Surface Air Temperature Variations, 1851-1984." *Journal of Climate & Applied Meteorology* **25**: 161-79.
- Jones, P.D., et al. (1990). "Assessment of Urbanization Effects in Time Series of Surface Air Temperatures over Land." *Nature* **347**: 169-72.
- Jones, Philip D., and Michael E. Mann (2004). "Climate over Past Millenia." *Reviews of Geophysics* **2004**: 1-42 [doi:10.1029/2003RG000143].
- Jones, P. D., et al. (2008). "Urbanization Effects in Large-Scale Temperature Records, with an Emphasis on China." *Journal of Geophysical Research* **113**: D16122 [doi:10.1029/2008JD009916].
- Jones, S.M, et al. (2019). "Large Igneous Province Thermogenic Greenhouse Gas Flux Could Have Initiated Paleocene-Eocene Thermal Maximum Climate Change." *Nature Communications* **10**: no. 5547 [doi.org/10.1038/s41467-019-12957-1].
- Jongbloed, U. A., et al. (2023). "Underestimated Passive Volcanic Sulfur Degassing Implies Overestimated Anthropogenic Aerosol Forcing." *Geophysical Research Letters* **50**: e2022GL102061 [doi.org/10.1029/2022GL102061].
- Joseph, Joachim H. (1984). "Gaps in the Knowledge of Aerosols--Analysis and Remedies." In *Aerosols and Their Climatic Effects. Proceedings of a Meeting Held in Williamsburg, Va. 3/28-30/83*, edited by Gerber, Hermann E., and Adarsh Deepak., pp. 275-78. Hampton, VA: A. Deepak Publishing - Science and Technology Corp.
- Josephson, Paul R. (2002). *Industrialized Nature: Brute Force Technology and the Transformation of the Natural World*. Washington, DC: Island Press/Shearwater.
- Joughin, Ian, et al. (2008). "Seasonal Speedup Along the Western Flank of the Greenland Ice Sheet." *Science*: **320**: 781-83 [doi:10.1126/science.1153288].
- Joughin, Ian, et al. (2014). "Marine Ice Sheet Collapse Potentially under Way for the Thwaites Glacier Basin, West Antarctica." *Science* **344**: 735-38 [doi: 10.1126/science.1249055].
- Jouzel, J. (2013). "A Brief History of Ice Core Science over the Last 50 Years." *Climate of the Past* **9**: 2525-47 [doi:10.5194/cp-9-2525-2013].
- Junge, Christian E. (1952). "Die Konstitution Des Atmosphärischen Aerosols." *Annalen der Meteorologie*: 1-55.
- Junge, Christian E. (1958). "Atmospheric Chemistry." *Advances in Geophysics* **4**: 1-106.



- Junge, C. E. (1975). *The Possible Influences of Aerosols on the General Circulation and Climate and Possible Approaches for Modeling*, Geneva, WMO
- Kahan, Dan (2010). “Fixing the Communications Failure.” *Nature* **463**: 296-97.
- Kahan, Dan M., et al. (2010). “Cultural Cognition of Scientific Consensus.” *Journal of Risk Research* **13**:147-74 [doi: 10.1080/13669877.2010.511246].
- Kahan, Dan M. (2017). “‘Ordinary Science Intelligence’: A Science-Comprehension Measure for Study of Risk and Science Communication, with Notes on Evolution and Climate Change.” *Journal of Risk Research* **20**: 995-1016  
[<https://doi.org/10.1080/13669877.2016.1148067>], online at  
<https://www.tandfonline.com/doi/full/10.1080/13669877.2016.1148067>.
- Kaiser, Jocelyn (2000). “Citizen-Scientist Guru.” *Science* **287**: 1189.
- Kalhoefer, Kevin (2017). “How Broadcast Networks Covered Climate Change in 2016.” *MediaMatters.org* (March 23), online at  
<https://www.mediamatters.org/research/2017/03/23/how-broadcast-networks-covered-climate-change-2016/215718>.
- Kalkstein, L.S., ed. (1991) *Global Comparisons of Selected GCM Control Runs and Observed Climate Data*. Washington, DC: U.S. Environmental Protection Agency. Office of Policy, Planning and Evaluation, report 21P-2002.
- Kalnay, Eugenia, and Ming Cai (2003). “Impact of Urbanization and Land-Use Change on Climate.” *Nature* **423**: 528-31.
- Kanzow, Torsten, et al. (2007). “Observed Flow Compensation Associated with the MOC at 26.5°N in the Atlantic.” *Science* **137**: 938-41 [doi:10.1126/science.1141293].
- Kanzow, T., et al. (2010). “Seasonal Variability of the Atlantic Meridional Overturning Circulation at 26.5°N.” *Journal of Climate* **23**: 5678-98  
[<https://doi.org/10.1175/2010JCLI3389.1>].
- Kaplan, Lewis D. (1952). “On the Pressure Dependence of Radiative Heat Transfer in the Atmosphere.” *J. Meteorology* **9**: 1-12.
- Kaplan, Lewis D. (1959). “Inference of Atmospheric Structure from Remote Radiation Measurements.” *Journal of the Optical Society of America* **49**: 1004-7.
- Kaplan, Lewis D. (1960). “The Influence of Carbon Dioxide Variation on the Atmospheric Heat Balance.” *Tellus* **12**: 204-208.

- Kaplan, Michael R., et al. (2010). "Glacier Retreat in New Zealand During the Younger Dryas Stadial." *Nature* **467**: 194-97 [doi:10.1038/nature09313].
- Karhu, Kristiina, et al. (2014). "Temperature Sensitivity of Soil Respiration Rates Enhanced by Microbial Community Response" *Nature* **513**: 81-84 [doi:10.1038/nature13604]
- Karl, Thomas R., et al. (1986). "Relationship between Decreased Temperature Range and Precipitation Trends in the United States and Canada, 1941-80." *J. Climate and Applied Meteorology* **25**: 1878-86.
- Karl, Thomas R., and Philip D. Jones (1989). "Urban Bias in Area-Averaged Surface Air Temperature Trends." *Bulletin of the American Meteorological Society* **70**: 265-70.
- Karl, Thomas R., et al. (1991). "Global Warming: Evidence for Asymmetric Diurnal Temperature Change." *Geophysical Research Letters* **18**: 2253-56.
- Karl, Thomas R., et al. (1993). "Asymmetric Trends of Daily Maximum and Minimum Temperature." *Bulletin of the American Meteorological Society* **74**: 1007-23.
- Karl, Thomas R., et al. (1995). "Trends in High-Frequency Variability in the Twentieth Century." *Nature* **377**: 217-20.
- Karl, Thomas R., et al. (1996). "Indices of Climate Change for the United States." *Bulletin of the American Meteorological Society* **77**: 279-292.
- Karl, Thomas R., et al. (2006) *Temperature Trends in the Lower Atmosphere: Steps for Understanding and Reconciling Differences*. A Report by the Climate Change Science Program and the Subcommittee on Global Change Research, online at [Http://Www.ClimateScience.Gov/Library/Sap/Sap1-1/Finalreport/Default.Htm](http://www.climate.gov/library/sap/sap1-1/finalreport/default.htm). Washington, DC.
- Karl, Thomas R., et al. (2015). "Possible Artifacts of Data Biases in the Recent Global Surface Warming Hiatus." *Science* **348**: 1469-72 [doi:10.1126/science.aaa5632].
- Karmalkar, A.V., and R.M. Horton (2021). "Drivers of Exceptional Coastal Warming in the Northeastern United States." *Nature Climate Change* **11**: 854-60 [doi.org/10.1038/s41558-021-01159-7].
- Karner, Daniel B., and Richard A. Muller (2000). "A Causality Problem for Milankovitch." *Science* **288**: 2143-44.
- Karpuz, Koç N., and E. Jansen (1992). "A High Resolution Diatom Record of the Last Deglaciation from the Se Norwegian Sea: Documentation of Rapid Climatic Changes." *Paleoceanography* **7**: 499-520.

- Kasahara, Akira, and Warren M. Washington (1967). "NCAR Global General Circulation Model of the Atmosphere." *Monthly Weather Review* **95**: 389-402 [doi:10.1175/1520-0493(1967)095].
- Kaser, G., et al. (2006). "Mass Balance of Glaciers and Ice Caps: Consensus Estimates for 1961–2004." *Geophysical Research Letters* **33**: L19501-5 [doi:10.1029/2006GL027511].
- Kaspi, Yohai, and Tapio Schneider (2011). "Winter Cold of Eastern Continental Boundaries Induced by Warm Ocean Waters." *Nature* **471**: 621-24 [doi:10.1038/nature09924].
- Kasting, J.F., and T.P. Ackerman (1986). "Climate Consequences of Very High Carbon Dioxide Levels in the Earth's Early Atmosphere." *Science* **234**: 1383-85.
- Kates, R. W., et al. (1985) *Climate Impact Assessment: Studies of the Interaction of Climate and Society. SCOPE Publication 27*. London: Wiley.
- Katich, J. M., et al. (2023). "Pyrocumulonimbus Affect Average Stratospheric Aerosol Composition." *Science* **379**: 815-20 [doi:10.1126/science.add3101].
- Katz, Miriam E., et al. (1999). "The Source and Fate of Massive Carbon Input During the Latest Paleocene Thermal Maximum." *Science* **286**: 1531-33.
- Kaufman, Darrell S., et al. (2009). "Recent Warming Reverses Long-Term Arctic Cooling." *Science* **325**: 1236-1239 [doi:10.1126/science.1173983].
- Kaufman, Darrell S., and Ellie Broadman (2023). "Revisiting the Holocene Global Temperature Conundrum." *Nature* **614**: 425-35 [doi:10.1038/s41586-022-05536-w].
- Keeling, Charles D. (1958). "The Concentration and Isotopic Abundances of Atmospheric Carbon Dioxide in Rural Areas." *Geochimica et Cosmochimica Acta* **13**: 322-35, online at <http://www.rescuethatfrog.com/wp-content/uploads/2017/01/Keeling-1958.pdf>.
- Keeling, Charles D. (1960). "The Concentration and Isotopic Abundances of Carbon Dioxide in the Atmosphere." *Tellus* **12**: 200-203.
- Keeling, Charles D. (1970). "Is Carbon Dioxide from Fossil Fuel Changing Man's Environment?" *Proceedings of the American Philosophical Society* **114**: 10-17.
- Keeling, Charles D. (1973). "The Carbon Dioxide Cycle: Reservoir Models to Depict the Exchange of Atmospheric Carbon Dioxide with the Ocean and Land Plants." In *Chemistry of the Lower Atmosphere*, edited by Rasool, S. I., pp. 251-329. New York: Plenum.
- Keeling, Charles D. (1973b). "Industrial Production of Carbon Dioxide from Fossil Fuels and Limestone." *Tellus* **25**: 174-98.

- Keeling, Charles D., et al. (1976). "Atmospheric Carbon Dioxide Variations at Mauna Loa Observatory." *Tellus* **28**: 538-51.
- Keeling, C.D. , and R.B. Bacastrow (1977). "Impact of Industrial Gases on Climate." In *Energy and Climate: Studies in Geophysics*, ational Academy of Sciences, Geophysics Research Board, Panel on Energy and Climate, pp. 72-95. Washington, DC: National Academy of Sciences.
- Keeling, Charles D. (1978). "The Influence of Mauna Loa Observatory on the Development of Atmospheric CO<sub>2</sub> Research." In *Mauna Loa Observatory. A 20th Anniversary Report. (National Oceanic and Atmospheric Administration Special Report , September 1978)*, edited by Miller, John, pp. 36-54. Boulder, CO: NOAA Environmental Research Laboratories (available online at <http://www.mlo.noaa.gov/HISTORY/Fhistory.htm>).
- Keeling, Charles D., et al. (1989). "A Three-Dimensional Model of Atmospheric CO<sub>2</sub> Transport Based on Observed Winds." In *Aspects of Climate Variability in the Pacific and the Western Americas (AGU Monograph 55)*, edited by Peterson, David H., pp. 165-363. Washington, DC: American Geophysical Union.
- Keeling, C. D., et al. (1995). "Interannual Extremes in the Rate of Rise of Atmospheric Carbon Dioxide since 1980." *Nature* **375**.
- Keeling, Charles D., et al. (1996). "Increased Activity of Northern Vegetation Inferred from Atmospheric CO<sub>2</sub> Measurements." *Nature* **382**: 146-49.
- Keeling, Charles D. (1998). "Rewards and Penalties of Monitoring the Earth." *Annual Review of Energy and the Environment* **23**: 25-82.
- Keeling, Ralph F., and Stephen R. Shertz (1992). "Seasonal and Interannual Variations in Atmospheric Oxygen and Implications for the Global Carbon Cycle." *Nature* **358**: 723-27.
- Keeling, Ralph F., et al. (1993). "What Atmospheric Oxygen Measurements Can Tell Us About the Global Carbon Cycle." *Global Biogeochemical Cycles* **7**: 37-67.
- Keeling, Ralph F., et al. (1996). "Global and Hemispheric CO<sub>2</sub> Sinks Deduced from Changes in Atmospheric O<sub>2</sub> Concentration." *Nature* **381**: 218-21.
- Keeling, Ralph F. (2008). "Recording Earth's Vital Signs." *Science* **319**: 1771-72 [doi:10.1126/science.1156761].
- Keeling, R.F., et al. (2010). " Monthly Atmospheric 13c/12c Isotopic Ratios for 11 SIO Stations." *Trends: A Compendium of Data on Global Change. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of*

- Energy, Oak Ridge, Tenn., U.S.A.:* online at <http://cdiac.ornl.gov/trends/co2/iso-sio/iso-sio.html>.
- Keenan, T.F., et al. (2021). “A Constraint on Historic Growth in Global Photosynthesis Due to Increasing CO<sub>2</sub>.” *Nature* **600**: 253-58 [doi.org/10.1038/s41586-021-04096-9].
- Keenan, T. F., et al. (2023). “A Constraint on Historic Growth in Global Photosynthesis Due to Rising CO<sub>2</sub>.” *Nature Climate Change* **13**: 1376-81 [doi:10.1038/s41558-023-01867-2].
- Keenlyside, N.S., et al. (2008). “Advancing Decadal-Scale Climate Prediction in the North Atlantic Sector.” *Nature* **453**: 84-88 [doi:10.1038/nature06921].
- Keil, Paul, et al. (2020). “Multiple Drivers of the North Atlantic Warming Hole.” *Nature Climate Change* **10**: 667-71 [doi.org/10.1038/s41558-020-0819-8].
- Keith, David W. (2000). “Geoengineering the Climate: History and Prospect.” *Annual Review of Energy and the Environment* **25**: 245-84.
- Keith, David W., et al. (2010). “Research on Global Sun Block Needed Now.” *Nature* **463**: 426-27.
- Kellogg, William W. (1971). “Predicting the Climate.” In *Man’s Impact on the Climate [Study of Critical Environmental Problems (SCEP) Report]*, edited by Matthews, William H., et al., pp. 123-32. Cambridge, MA: MIT Press.
- Kellogg, William W., and Stephen H. Schneider (1974). “Climate Stabilization: For Better or for Worse?” *Science* **186**: 1163-72.
- Kellogg, William W., et al. (1975). “Effect of Anthropogenic Aerosols on the Global Climate.” In *Proceedings of the WMO/IAMAP Symposium on Long-Term Climatic Fluctuations, Norwich, Aug. 1975 (WMO Doc. 421)*, pp. 323-30. Geneva: World Meteorological Organization.
- Kellogg, William W. (1977). *Effects of Human Activities on Global Climate. A Summary, with Consideration of the Implications of a Possibly Warmer Earth (WMO Technical Note 156, published as no. 486)*. Geneva: World Meteorological Organization, online at [https://library.wmo.int/pmb\\_ged/wmo\\_486.pdf](https://library.wmo.int/pmb_ged/wmo_486.pdf).
- Kellogg, William W. (1980). “Aerosols and Climate.” In *Interactions of Energy and Climate*, edited by Bach, W., et al., pp. 281-96. Dordrecht: Reidel.
- Kellogg, William W., and Robert Schwart (1981). *Climate Change and Society: Consequences of Increasing Atmospheric Carbon Dioxide*. Boulder, CO: Westview.
- Kellogg, William W. (1987). “Mankind’s Impact on Climate: The Evolution of an Awareness.” *Climatic Change* **10**: 113-36.

- Kemp, Luke, et al. (2022). "Climate Endgame: Exploring Catastrophic Climate Change Scenarios." *Proceedings of the National Academy of Sciences* **119**: e2108146119 [doi:10.1073/pnas.2108146119].
- Kempton, Willett (1991). "Lay Perspectives on Global Climate Change." *Global Environmental Change*: 183-208.
- Kendall, Brian (2023). "Butterfly Effect of Shallow-Ocean Deoxygenation on Past Marine Biodiversity." *Nature Geoscience* **16**: 1080-81 [doi:10.1038/s41561-023-01310-3].
- Kender, S., et al. (2021). "Paleocene/Eocene Carbon Feedbacks Triggered by Volcanic Activity." *Nature Communications* **12**: 5186 [doi.org/10.1038/s41467-021-25536-0].
- Kennedy, Donald (2001). "An Unfortunate U-Turn on Carbon." *Science* **291**: 2515.
- Kennedy, Donald (2006). "The New Gag Rules." *Science* **311**: 917 [doi:10.1126/science.1125749].
- Kennedy, Martin, et al. (2008). "Snowball Earth Termination by Destabilization of Equatorial Permafrost Methane Clathrate." *Nature* **453**: 642-45 [doi:10.1038/nature06961].
- Kennett, D.J., et al. (2009). "Nanodiamonds in the Younger Dryas Boundary Sediment Layer (Brevia)." *Science* **323**: 94 [doi:10.1126/science.1162819].
- Kennett, J.P., and Nicholas J. Shackleton (1975). "Laurentide Ice Sheet Meltwater Recorded in Gulf of Mexico Deep-Sea Cores." *Science* **188**: 147-50.
- Kennett, J.P., and L.D. Stott (1991). "Abrupt Deep-Sea Warming, Palaeoceanographic Changes and Benthic Extinctions at the End of the Palaeocene." *Nature* **353**: 225-29.
- Kennett, James P., et al. (2000). "Carbon Isotopic Evidence for Methane Hydrate Instability During Quaternary Interstadials." *Science* **288**: 128-33 [doi:10.1126/science.288.5463.128].
- Kennett, James P., ed. (2002) *Methane Hydrates in Quaternary Climate Change: The Clathrate Gun Hypothesis*. Washington, DC: American Geophysical Union.
- Kennett, James P., et al. (2015). "Bayesian Chronological Analyses Consistent with Synchronous Age of 12,835-12,735 Cal B.P. For Younger Dryas Boundary on Four Continents." *Proceedings of the National Academy of Sciences* **112**: E4344-53 [doi:10.1073/pnas.1507146112].
- Keppler, Frank, et al. (2006). "Methane Emissions from Terrestrial Plants under Aerobic Conditions." *Nature* **439**: 187-91 [doi:10.1038/nature04420].

- Kerr, Richard A. (1977). "Carbon Dioxide and Climate: Carbon Budget Still Unbalanced." *Science* **197**: 1352-53.
- Kerr, Richard A. (1978). "Climate Control: How Large a Role for Orbital Variations?" *Science* **201**: 144-146.
- Kerr, Richard A. (1981). "Pollution of the Arctic Atmosphere Confirmed." *Science* **212**: 1013-14.
- Kerr, Richard A. (1988). "Is the Greenhouse Here?" *Science* **239**: 559-61.
- Kerr, Richard A. (1989a). "Greenhouse Skeptic out in the Cold." *Science* **246**: 1118-19.
- Kerr, Richard A. (1989b). "Hansen Vs. The World on the Greenhouse Threat." *Science* **244**: 1041-43.
- Kerr, Richard A. (1990). "New Greenhouse Report Puts Down Dissenters." *Science* **249**: 481-82.
- Kerr, Richard A. (1991). "Could the Sun Be Warming the Climate?" *Science* **254**: 652-53.
- Kerr, Richard A. (1992). "Pollutant Haze Cools the Greenhouse." *Science* **255**: 682-84.
- Kerr, Richard A. (1993). "Even Warm Climates Get the Shivers." *Science* **261**: 292.
- Kerr, Richard A. (1995a). "Darker Clouds Promise Brighter Future for Climate Models." *Science* **267**: 454.
- Kerr, Richard A. (1995b). "It's Official: First Glimmer of Greenhouse Warming Seen." *Science* **270**: 1565-67.
- Kerr, Richard A. (1997a). "Model Gets It Right--without Fudge Factors." *Science* **276**: 1041.
- Kerr, Richard A. (1997b). "Did Satellites Spot a Brightening Sun?" *Science* **277**: 1923-24.
- Kerr, Richard A. (1998). "Among Global Thermometers, Warming Wins Out." *Science* **281**: 1948-49.
- Kerr, Richard A. (1999). "Slide into Ice Ages Not Carbon Dioxide's Fault?" *Science* **284**: 1743-46.
- Kerr, Richard A. (2000a). "A North Atlantic Climate Pacemaker for the Centuries." *Science* **288**: 1984-85 [doi: 10.1126/scienc;e.288.5473.1984].
- Kerr, Richard A. (2000b). "Ice, Mud Point to CO<sub>2</sub> Role in Glacial Cycle." *Science* **289**: 1868.

- Kerr, Richard A. (2003). "Right Direction, but a Long Way to Go for Bush's Plan." *Science* **299**: 1494.
- Kerr, Richard A. (2004a). "An Early Start for Greenhouse Warming?" *Science* **303**: 306-307.
- Kerr, Richard A. (2004b). "Getting Warmer, However You Measure It." *Science* **304**: 805-06.
- Kerr, Richard A. (2005). "Confronting the Bogeyman of the Climate System." *Science* **310**: 432-33.
- Kerr, Richard A. (2006). "Global Warming May Be Homing in on Atlantic Hurricanes." *Science* **314**: 910-11.
- Kerr, Richard A. (2006a). "Latest Forecast: Stand by for a Warmer, but Not Scorching, World." *Science* **312**: 351.
- Kerr, Richard A. (2006b). "Pollute the Planet for Climate's Sake?" *Science* **314**: 401-03.
- Kessler, John D., et al. (2011). "A Persistent Oxygen Anomaly Reveals the Fate of Spilled Methane in the Deep Gulf of Mexico." *Science* **331**: 312-15 [doi:10.1126/science.1199697].
- Khan, Shfaqat A., et al. (2016). "Geodetic Measurements Reveal Similarities between Post-Last Glacial Maximum and Present-Day Mass Loss from the Greenland Ice Sheet." *Science Advances* **2**: e1600931 [doi:10.1126/sciadv.1600931].
- Khodri, M., et al. (2001). "Simulating the Amplification of Orbital Forcing by Ocean Feedbacks in the Last Glaciation." *Nature* **410**: 570-73.
- Kiehl, Jeffrey T., and B. P. Briegleb (1993). "The Relative Roles of Sulfate Aerosols and Greenhouse Gases in Climate Forcing." *Science* **260**: 311-14.
- Kiehl, Jeffrey T., et al. (1996). *Description of the NCAR Community Climate Model (CCM3)*. Boulder, CO: National Center for Atmospheric Research, NCAR Technical Note TN-420+STR.
- Kiehl, Jeffrey T. (1999). "Solving the Aerosol Puzzle." *Science* **283**: 1273-75.
- Kiehl, Jeffrey (2011). "Lessons from Earth's Past." *Science* **331**: 158-59 [doi:10.1126/science.1199380].
- Kim, Jin-Soo, et al. (2017). "Reduced North American Terrestrial Primary Productivity Linked to Anomalous Arctic Warming." *Nature Geoscience* **10**: 572-76 [doi:10.1038/ngeo2986].



- Kimble, George H.T. (1950). "Changing Climate." *Scientific American* **182**, no. 4 (April), pp. 48-53.
- Kimble, George H. T. (1962). "But Somebody Does Something About It." *New York Times Magazine* (8 July), p. 11 ff.
- Kincer, J.B. (1934). "Is Our Climate Changing to Milder?" *Scientific Monthly* **39**, (July), pp. 59-62.
- King, John (2014). "Climate Science: A Resolution of the Antarctic Paradox." *Nature* **505**: 491-92 [doi:10.1038/505491a].
- King, Jennie, et al. (2022). *Deny, Deceive, Delay: Documenting and Responding to Climate Disinformation at COP26 & Beyond*. London: Institute for Strategic Dialogue Online at <https://www.isdglobal.org/isd-publications/deny-deceive-delay-documenting-and-responding-to-climate-disinformation-at-cop26-and-beyond-full/>.
- King, M.D., et al. (2020). "Dynamic Ice Loss from the Greenland Ice Sheet Driven by Sustained Glacier Retreat." *Communications Earth & Environment* **1**: 1 [doi.org/10.1038/s43247-020-0001-2].
- Kingsolver, Barbara (2012). *Flight Behavior*. New York: Harper
- Kinney, P.L., et al. (2015). "Winter Season Mortality: Will Climate Warming Bring Benefits?" *Environmental Research Letters* **10**: 064016 [doi:10.1088/1748-9326/10/6/064016].
- Kintisch, Eli (2006). "Evangelicals, Scientists Reach Common Ground on Climate Change." *Science* **311**: 1082-83.
- Kintisch, Eli (2009). "Projections of Climate Change Go from Bad to Worse, Scientists Report." *Science* **323**: 1546-47 [doi:10.1126/science.323.5921.1546].
- Kintisch, Eli (2010). *Hack the Planet: Science's Best Hope - or Worst Nightmare - for Averting Climate Catastrophe*. New York: Wiley.
- Kirchmeier-Young, M. C., et al. (2018). "Attribution of the Influence of Human-Induced Climate Change on an Extreme Fire Season." *Earth's Future* **7**: 2-10 [doi.org/10.1029/2018EF001050Citations].
- Kirkby, Jasper (2007). "Cosmic Rays and Climate." *Surveys in Geophysics* **28**: 333-75 [doi:10.1007/s10712-008-9030-6].
- Kirschbaum, Miko U. F. (1995). "The Temperature Dependence of Soil Organic Matter Decomposition, and the Effect of Global Warming on Soil Organic C Storage." *Soil Biology and Biochemistry* **27**: 753-60 [doi:10.1016/0038-0717(94)00242-S].

- Kirschvink, J.L. (1992). "A Paleogeographic Model for Vendian and Cambrian Time. ['Snowball Earth']." In *The Proterozoic Biosphere: A Multidisciplinary Study*, edited by Schopf, J.W., et al., pp. 567-81. Cambridge: Cambridge University Press.
- Klein, Naomi (2014). *This Changes Everything: Capitalism Vs. The Climate*. London: Penguin.
- Kleypas, Joan A. , et al. (1999). "Geochemical Consequences of Increased Atmospheric Carbon Dioxide on Coral Reefs" *Science* **284**: 118-20, online at <https://geosci.uchicago.edu/~archer/reprints/kleypas.1999.reefs.pdf>.
- Kluger, Jeffrey (2005). "Global Warming: The Culprit?" *Time* **166**, no. 14 (3 October), pp. 42-46.
- Kluger, Jeffrey (2006). "The Tipping Point." *Time* **167**, no. 14 (3 April), pp. 34-42.
- Knoblauch, Christian, et al. (2018). "Methane Production as Key to the Greenhouse Gas Budget of Thawing Permafrost." *Nature Climate Change* **8**: 309-12 [doi:10.1038/s41558-018-0095-z].
- Knorr, W., et al. (2005). "Long-Term Sensitivity of Soil Carbon Turnover to Warming." *Nature* **433**: 298-301 [doi:10.1038/nature03226].
- Knox, Fanny, and Michael B. McElroy (1984). "Changes in Atmospheric CO<sub>2</sub>: Influence of the Marine Biota at High Latitude." *J. Geophysical Research* **89**: 4629-37.
- Knutti, Reto, et al. (2017). "Beyond Equilibrium Climate Sensitivity." *Nature Geoscience* **10**: 727-36 [https://doi.org/10.1038/ngeo3017].
- Knutson, T.K., and R.E. Tuleya (2004). "Impact of CO<sub>2</sub> -Induced Warming on Simulated Hurricane Intensity and Precipitation." *Journal of Climate* **17**: 3477-95.
- Knutson, T.R., et al. (1998). "Simulated Increase of Hurricane Intensities in a CO<sub>2</sub>-Warmed Climate." *Science* **279**: 1018-20.
- Knutson, Thomas R., et al. (2010). "Tropical Cyclones and Climate Change." *Nature Geoscience* **3**: 157-63.
- Knutti, Reto, et al. (2002). "Constraints on Radiative Forcing and Future Climate Change from Observations and Climate Model Ensembles." *Nature* **416**: 719-22.
- Knutti, Reto (2008). "Why Are Climate Models Reproducing the Observed Global Surface Warming So Well?" *Geophysical Research Letters* **35**: L18704 [doi.org/10.1029/2008GL034932].

- Koch, Alexander, et al. (2019). "Earth System Impacts of the European Arrival and Great Dying in the Americas after 1492." *Quaternary Science Reviews* **207**: 13-36 [doi.org/10.1016/j.quascirev.2018.12.004].
- Koch, Alexander, et al. (2021). "Earth System Models Are Not Capturing Present-Day Tropical Forest Carbon Dynamics." *Earth's Future* **9**: e2020EF001874 [doi.org/10.1029/2020EF001874].
- Koch, Paul L., et al. (1992). "Correlation between Isotope Records in Marine and Continental Carbon Reservoirs near the Palaeocene/Eocene Boundary." *Nature* **358**: 319-22.
- Koelsch, William A. (1996). "From Geo- to Physical Science: Meteorology and the American University, 1919-1945." In *Historical Essays on Meteorology 1919-1995*, edited by Fleming, James Rodger, pp. 511-40. Boston: American Meteorological Society.
- Kohfeld, Kare E., et al. (2005). "Role of Marine Biology in Glacial-Interglacial CO<sub>2</sub> Cycles." *Science* **308**: 74-78 [doi:10.1126/science.1105375].
- Kok, Jasper F., et al. (2023). "Mineral Dust Aerosol Impacts on Global Climate and Climate Change." *Nature Reviews Earth & Environment* **4**: 1-16 [doi:10.1038/s43017-022-00379-5].
- Kolbert, Elizabeth (2005). "The Climate of Man." *New Yorker* **81**, no. 10, 11, 12 (April 14-May 9).
- Kolbert, Elizabeth (2006a). *Field Notes from a Catastrophe*. London: Bloomsbury.
- Kolbert, Elizabeth (2006b). "The Darkening Sea." *New Yorker* **82**, no. 38 (Nov. 20), pp. 66-75.
- Kondratyev, Kirill Ya., and G.A. Nikolsky (1970). "Solar Radiation and Solar Activity." *Quarterly J. Royal Meteorological Society* **96**: 509-22.
- Kondratyev, Kirill Ya. (1981). "Stratosphere and Climate." *Meteorology and Climatology (Science and Technology Findings, Izd. VINITI Akad. Nauk SSSR)* **6**.
- Kondratyev, Kirill Ya. (1988). *Climate Shocks: Natural and Anthropogenic*. New York: John Wiley.
- Konrad, Hannes, et al. (2018). "Net Retreat of Antarctic Glacier Grounding Lines." *Nature Geoscience* **11**: 258-62 [doi:10.1038/s41561-018-0082-z].
- Kopp, Robert E., et al. (2009). "Probabilistic Assessment of Sea Level During the Last Interglacial Stage." *Nature* **462**: 863-68 [doi:10.1038/nature08686].

- Kopp, Robert E., et al. (2016a). "Temperature-Driven Global Sea-Level Variability in the Common Era." *Proceedings of the National Academy of Sciences* **113**: E1434-E1441 [doi:10.1073/pnas.1517056113].
- Kopp, Robert E., et al. (2016b). "Tipping Elements and Climate-Economic Shocks: Pathways toward Integrated Assessment." *Earth's Future* **4**, [doi:eft2/2016EF000362], online at <http://onlinelibrary.wiley.com/doi/10.1002/2016EF000362/pdf>.
- Köppen, W. (1873). "Über Mehrjährige Perioden Der Witterung, Insbesondere Über Die 11jährige Periode Der Temperatur." *Zeitschrift der Österreichischen Gesellschaft für Meteorologie* **8**: 241-48, 141-50.
- Köppen, W., and A. Wegener (1924). *Die Klimate Der Geologischen Vorzeit*. Berlin: Borntraeger.
- Korn, H. (1938). "Stratification and Absolute Time Ground Building..." *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie* **74A**: 50-186.
- Kornhuber, Kai, et al. (2020). "Amplified Rossby Waves Enhance Risk of Concurrent Heatwaves in Major Breadbasket Regions." *Nature Climate Change* **10**: 48-53 [10.1038/s41558-019-0637-z].
- Kosaka, Yu, and Shang-Ping Xie (2013). "Recent Global-Warming Hiatus Tied to Equatorial Pacific Surface Cooling." *Nature* **501**: 403-07 [doi:10.1038/nature12534].
- Kossin, J. P., et al. (2007). "A Globally Consistent Reanalysis of Hurricane Variability and Trends." *Geophysical Research Letters* **34**: L04815-21 [doi:10.1029/2006GL028836, 2007].
- Kossin, James P. (2018). "A Global Slowdown of Tropical-Cyclone Translation Speed." *Nature* **558**: 104-107 [https://doi.org/10.1038/s41586-018-0158-3], pdf online at <https://www.nature.com/articles/s41586-018-0158-3.epdf>.
- Kossin, James P., et al. (2020). "Global Increase in Major Tropical Cyclone Exceedance Probability over the Past Four Decades." *Publications of the National Academy of Sciences* **17**: 11975-80 [doi:10.1073/pnas.1920849117].
- Kostitzin, V.A. (1935). *Evolution De L'atmosphère, Circulation Organique, Époques Glacières*. Paris: Hermann.
- Koyama, Tadashiro (1963). "Gaseous Metabolism in Lake Sediments and Paddy Soils and the Production of Atmospheric Methane and Hydrogen." *J. Geophysical Research* **68**: 3971-73.

- Krabill, William, et al. (1999). "Rapid Thinning of Parts of the Southern Greenland Ice Sheet." *Science* **283**: 1522-24.
- Krajick, Kevin (2002). "Ice Man: Lonnie Thompson Scales the Peaks for Science." *Science* **298**: 518-22.
- Kraus, E. B., and Edward N. Lorenz (1966). "Numerical Experiments with Large-Scale Seasonal Forcing." *J. Atmospheric Sciences* **23**: 3-12.
- Krissansen-Totton, J., and R. Davies (2013). "Investigation of Cosmic Ray-Cloud Connections Using MISR." *Geophysical Research Letters* **40**: 5240-45, <http://dx.doi.org/10.1002/grl.50996>.
- Krook, Max (1953). "Interstellar Matter and the Solar Constant." In *Climatic Change. Evidence, Causes, and Effects*, edited by Shapley, Harlow, pp. 143-46. Cambridge, MA: Harvard University Press.
- Krosnick, Jon A., et al. (2000). "The Impact of the Fall 1997 Debate About Global Warming on American Public Opinion." *Public Understanding of Science* **9**: 239-60.
- Krüger, Tobias (2013). *Discovering the Ice Ages: International Reception and Consequences for a Historical Understanding of Climate*. Leiden: Brill.
- Kuhn, Thomas S. (1962). *The Structure of Scientific Revolutions*. Chicago: University of Chicago Press.
- Kuhry, P., et al. (2010). "Potential Remobilization of Belowground Permafrost Carbon under Future Global Warming." *Permafrost and Periglacial Processes* **21**: 208-14 [doi: 10.1002/ppp.684].
- Kuiper, G.P., ed. (2nd ed., 1952) *The Atmospheres of the Earth and Planets*. Chicago: University of Chicago Press.
- Kuiper, Gerard P, ed. (1953) *The Sun*. Chicago: University of Chicago Press.
- Kuiper, Gerald P., and Barbara M. Middlehurst (1961) *Planets and Satellites*. Chicago: University of Chicago Press.
- Kukla, George J., and Alois Kocí (1972). "End of the Last Interglacial in the Loess Record." *Quaternary Research* **2**: 374-83.
- Kukla, George J., and R. K. Matthews (1972). "When Will the Present Interglacial End?" *Science* **178**: 190-91.

- Kukla, George J., et al. (1972). "The End of the Present Interglacial." *Quaternary Research* **2**: 261-69.
- Kukla, George J., and Helena J. Kukla (1974). "Increased Surface Albedo in the Northern Hemisphere." *Science* **183**: 709-14.
- Kukla, George J., et al. (1994) *Asymmetric Change of Daily Temperature Range: Proceedings of the International Minimax Workshop, Colleg Park, Md, 27-30 Sept. 1993*. Washington, DC: U.S. Department of Energy.
- Kulmala, M., et al. (2010). "Atmospheric Data over a Solar Cycle: No Connection between Galactic Cosmic Rays and New Particle Formation." *Atmospheric Chemistry and Physics* **10**: 1885-98 [<https://doi.org/10.5194/acp-10-1885-2010>].
- Kulp, J. Laurence, et al. (1951). "Lamont Natural Radiocarbon Measurements, I." *Science* **114**: 565-568.
- Kulp, J. Laurence (1953). "Carbon-14 Measurements on Geological Samples." *Atomics* **1**, (April), pp. 96-98.
- Kunzig, Robert (2004). "20,000 Microbes under the Sea." *Discover* **25**, no. 3 (December), pp. 32-41.
- Kuma, Peter, et al. (2023). "Climate Model Code Genealogy and Its Relation to Climate Feedbacks and Sensitivity." *Journal of Advances in Modeling Earth Systems* **15**: E2022MS003588 [[doi.org/10.1029/2022MS003588](https://doi.org/10.1029/2022MS003588)].
- Kunzig, Robert (2006). "Hurricanes Intensify Global-Warming Debate." *Discover* **27**, no. 1 (January), pp. 20-23.
- Kurganskiy, Alexander, et al. (2021). "Predicting the Severity of the Grass Pollen Season and the Effect of Climate Change in Northwest Europe." *Science Advances* **7**: eabd7658 [[doi:10.1126/sciadv.abd7658](https://doi.org/10.1126/sciadv.abd7658)].
- Kurz, W.A., et al. (2008). "Mountain Pine Beetle and Forest Carbon Feedback to Climate Change." *Nature* **452**: 987-90 [[doi:10.1038/nature06777](https://doi.org/10.1038/nature06777)].
- Kutney, Gerald (2014). *Carbon Politics and the Failure of the Kyoto Protocol*. London and New York: Routledge.
- Kutney, Gerald (2023). *Climate Denial in American Politics #Climatebrawl*. London and New York: Routledge.

- Kutzbach, Gisela, ed. (2007) *Climate Variability and Changes: Past, Present and Future. John E. Kutzbach Symposium*. Madison, WI: Center for Climatic Research, University of Wisconsin-Madison.
- Kutzbach, John E. (1976). "The Nature of Climate and Climatic Variations." *Quaternary Research* **6**: 471-80.
- Kutzbach, John E., and P.J. Guetter (1984). "The Sensitivity of Monsoon Climates to Orbital Parameterization Changes for 9000 Years Bp: Experiments with the NCAR General Circulation Model." In *Milankovitch and Climate. Understanding the Response to Astronomical Forcing (Part 2)*, edited by Berger, A.L., et al., pp. 801-20. Dordrecht: Reidel.
- Kutzbach, John E. (1996). "Steps in the Evolution of Climatology: From Descriptive to Analytic." In *Historical Essays on Meteorology 1919-1995*, edited by Fleming, James R., pp. 353-77. Boston: American Meteorological Society.
- Kutzbach, John E., et al. (1996). "Vegetation and Soil Feedbacks on the Response of the African Monsoon to Orbital Forcing in the Early to Middle Holocene." *Nature* **384**: 623-26.
- Kvenvolden, K.A. (1988). "Methane Hydrates and Global Climate." *Global Biochemical Cycles* **3**: 221-29.
- Kwa, C. (1994). "Modelling Technologies of Control." *Science as Culture* **4**: 363-91.
- Kwa, Changlin (2001). "The Rise and Fall of Weather Modification: Changes in American Attitudes toward Technology, Nature, and Society." In *Changing the Atmosphere. Expert Knowledge and Environmental Governance*, edited by Miller, Clark A., and Paul N. Edwards, pp. 135-65. Cambridge, MA: MIT Press.
- Kwok, R., et al. (2009). "Thinning and Volume Loss of the Arctic Ocean Sea Ice Cover: 2003–2008." *J. Geophysical Research* **114**: C07005 [doi:10.1029/2009JC005312].

**continued in Part II**