

Bibliography by Author (for Bibliography by Year, see the Website)

This bibliography may seem long (more than 1900 items), but it has a great many omissions. Please see the discussion of sources in the "Method" essay. Note in particular that the IPCC reports have by far the best bibliography for recent scientific work.

Abbreviations used in the notes:

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

- Abarbenel, Albert, and Thomas McCluskey (1950). "Is the World Getting Warmer?" *Saturday Evening Post*, 1 July, pp. 22-23, 57-63.
- 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**(29): 1-24.
- Abbot, Charles G. (1967). "Precipitation in Five Continents." *Smithsonian Miscellaneous Collections* **151**(5).
- Abelson, P.H. (1977). "Energy and Climate." *Science* **197**: 941.
- Abetti, Giorgio (1957). *The Sun*. New York: Macmillan.
- 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.
- 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 (1999). "Early Science-Policy Interactions in Global Climate Change: Lessons from the Advisory Group on Greenhouse Gases." *Global Environmental Change*

- 9(2): 157-69.
- Ahlmann, H.W. (1952). "Glacier Variations and Climatic Fluctuations." *Bowman Memorial Lectures, American Geographical Society Ser. 3, no. 1.*
- 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*, Feb., pp. 90-95, 142-52.
- 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].
- 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. (2000). *The Two-Mile Time Machine*. Princeton, NJ: Princeton University Press.
- Alley, Richard B., et al. (2005). "Ice-Sheet and Sea-Level Changes." *Science* **310**: 456-60 [doi: 10.1126/science.1114613].
- Alvarez, Luis W., et al. (1980). "Extraterrestrial Cause for the Cretaceous-Tertiary Extinction." *Science* **208**: 1095-1108.
- Alvarez, Walter, et al. (1984). "The End of the Cretaceous: Sharp Boundary or Gradual Transition?" *Science* **223**: 1183-86.
- Anderson, Christopher (1992). "How Much Green in the Greenhouse?" *Nature* **356**: 369.
- Anderson, Theodore L., Robert J. Charlson, Stephen E. Schwartz, et al. (2003) "Climate Forcing by Aerosols—a Hazy Picture." *Science* **300**: 1103-04.
- Anderson, Neil R., and Alexander Malahoff, Eds. (1977). *The Fate of Fossil Fuel CO₂ in the Oceans*. New York: Plenum.
- 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].
- 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.
- Andrist, Ralph K. (1960). "Footprints of the Great Ice." *American Heritage* **11** (online at www.americanheritage.com/articles/magazine/ah/1960/3/1960_3_40.shtml).
- 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**(2): 205-18.
- Ångström, Knut (1900). "Über die Bedeutung des Wasserdampfes und der Kohlensäures Bei der

- Absorption der Erdatmosphäre." *Annalen der Physik* **4**(3): 720-32. Published online vol. **308**(12): 720-32 (2006) [doi:10.1002/andp.19003081208]
- 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.
- Appenzeller, Tim (1991). "Fire and Ice under the Deep-Sea Floor." *Science* **252**: 1790-92.
- Appenzeller, Ti, and Dennis R. Dimick (2004). "The Heat Is On." *National Geographic*, 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 Hoard Schubert (1974). "Interaction of a Cumulus Cloud Ensemble with the Large-Scale Environment, Part I." *J. Atmospheric Sciences* **31**: 674-701.
- Arakawa, Akio (2000). "A Personal Perspective on the Early Years of General Circulation Modeling at UCLA." In *General Circulation Model Development*, edited by David A. Randall, pp. 1-65. San Diego, CA: Academic Press.
- Arakawa, Akio , et al. (1994). "Yale Mintz, Atmospheric Sciences: Los Angeles." In *University of California: In Memoriam, 1993*. Oakland, CA: University of California Senate (online at <http://sunsite.berkeley.edu:2020/dynaweb/teiproj/uchist/inmemoriam/inmemoriam1993/>).
- 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].
- 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.
- 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 (1901). "Über die Wärmeabsorption Durch Kohlensäure und Ihren Einfluss auf die Temperatur der Erdoberfläche." *Förhandlingar Svenska Vetenskapsakademiens* **58**: 25-58.
- Arrhenius, Svante (1908). *Worlds in the Making*. New York: Harper & Brothers.
- 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

- December), pp. 59-66.
- Atkins, G.L. (1969). *Multicompartment Models for Biological Systems*. London: Methuen.
- Atwood, Margaret (2003). *Oryx and Crake*. Garden City, NY: Doubleday.
- Ausubel, Jesse H. (1983). "Annex 2: Historical Note." In *Changing Climate. Report of the Carbon Dioxide Assessment Committee*, edited by Commission on Physical Sciences National Research Council, Mathematics, and Resources. Board on Atmospheric Science and Climate, pp. 488-91. Washington, DC: National Academy of Sciences.
- Badash, Lawrence (2001). "Nuclear Winter: Scientists in the Political Arena." *Perspectives in Physics* **3**: 76-105.
- Bader, D., et al. (2005). "A U.S. Interagency Distributed Climate Modeling Project." *Eos, Transactions of the American Geophysical Union* **86**: 309-10.
- Baer, F., et al., Eds. (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.
- Balco, Greg (1999). "Hot Air and Congress." *Eos, Transactions of the American Geophysical Union* **80**(29): 320.
- Baldwin, Betty, et al. (1976). "Stratospheric Aerosols and Climatic Change." *Nature* **263**: 551-55.
- Baliunas, Sallie, Robert Jastrow (1990). "Evidence for Long-Term Brightness Changes of Solar-Type Stars." *Nature* **348**: 520-23.
- 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.
- 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, 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 (1999). "Ice Age Temperatures and Geochemistry." *Science* **284**: 1133-34.
- Barendsen, G. W., et al. (1957). "Yale Natural Radiocarbon Measurements III." *Science* **126**: 908-19.
- 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 17 pp. (online at 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 Workshop on Human Security and Climate Change (online at <http://www.cicero.uio.no/humsec/papers/Barnett&Adger.pdf>).
- 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 CO₂." *Nature* **329**: 408-.
- Barreis, David A., and Reid A. Bryson (1965). "Climatic Episodes and the Dating of the

- Mississippian Cultures." *Wisconsin Archeologist*, 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.
- Bates, J.R., et al., Eds. (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 O₂ 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**(21): 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.
- Behrenfeld, Michael J., et al. (2006). "Climate-Driven Trends in Contemporary Ocean Productivity." *Nature* **444**: 752-55 [doi:10.1038/nature05317].
- Bell, P. R. (1982). "Methane Hydrate and the Carbon Dioxide Question." In *Carbon Dioxide Review 1982*, edited by William C. Clark, 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*, 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 Othmar Preining 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].
- Bentley, C.R. (1982). "The West Antarctic Ice Sheet: Diagnosis and Prognosis." In *Carbon Dioxide Research Conference. Proceedings*. Springfield, VA: NTIS.
- Bentley, Charles (1980). "Response of the West Antarctic Ice Sheet to CO₂ Induced Climatic Warming." In *Environmental and Societal Consequences of a Possible CO₂-Induced Climate Change* Vol. **2**, pp. 1-. Washington, DC: Dept. of Energy.
- Berger, A., and M.F. Loutre (2002). "An Exceptionally Long Interglacial Ahead?" *Science* **297**: 1287-88.
- 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.
- Berger, A.L. (1977). "Support for the Astronomical Theory of Climate Change." *Nature* **269**: 44-45.
- Bergthorsson, P., et al. (1955). "Routine Forecasting with the Barotropic Model." *Tellus* **7**: 272-76.

- Berner, R. 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 CO₂ 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 CO₂ Cycle from Ice Core Studies." *Radiocarbon* **22**: 227-35.
- Best, A.I., et al. (2006). "Shallow Seabed Methane Gas Could Pose Coastal Hazard." *Eos, Transactions of the American Geophysical Union* **87**: 213, 217.
- Beuermann, Christiane, and Jill Jäger (1996). "Climate Change Politics in Germany." In *Politics of Climate Change: A European Perspective*, edited by Tim O'Riordan and Jill Jäger, pp. 186-227. London: Routledge.
- Bindschadler, Robert A., and Charles R. Bentley (2002). "On Thin Ice?" *Scientific American* **287**, no. 6 (Dec.), 98-105.
- Bindschadler, Robert A., Matt A. King, Richard B. Alley, 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 (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 Publikationer* **2**(4): 1-88.
- 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.
- 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.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.
- Bodansky, Daniel (1997). "The History and Legal Structure of the Global Climate Change Regime". Potsdam, PIK. Report 21
- Boehmer-Christiansen, Sonja (1994). "A Scientific Agenda for Climate Policy?" *Nature* **372**: 400-402.
- 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.
- 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 Bert Bolin, pp. 130-42. New York: Rockefeller Institute Press.
- 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*, Sept., pp. 125-32.
- Bolin, Bert (1972). "Atmospheric Chemistry and Environmental Pollution." In *Meteorological Challenges: A History*, edited by D.P. McIntyre, 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., Eds. (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., Eds. (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.
- 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 (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.
- Bord, Richard J., et al. (1998). "Public Perceptions of Global Warming: United States and International Perspectives." *Climate Research* **11**: 75-84.
- Borisov, P. M. (1962). "The Problem of the Fundamental Amelioration of Climate." *Izvestia Vses. Geogr. Obshchestva (Voronezh)* **94**: 304-318.
- Bostrom, Ann, et al. (1994). "What Do People Know About Climate Change? 1. Mental Models." *Risk Analysis* **14**: 959-70.
- Boucher, Olivier (1999). "Air Traffic May Increase Cirrus Cloudiness." *Nature* **397**: 30-31.
- 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].
- 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.
- 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., and Jules M. Boykoff (2007). "Climate Change and Journalistic Norms: A Case-Study of Us Mass-Media Coverage." *Geoforum*: IN PRESS [doi:10.1016/j.geoforum.2007.01.008] online at <http://www.eci.ox.ac.uk/publications/downloads/boykoff07-geoforum.pdf>.
- Boyle, E.A. (1988a). “Vertical Oceanic Nutrient Fractionation and Glacial/Interglacial CO₂ Cycles.” *Nature* **331**: 55-56.
- Boyle, E.A. (1988b). “Cadmium: Chemical Tracer of Deepwater Paleoceanography.” *Paleoceanography* **3**: 471-89.
- 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.
- 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, Wilmot H. (1929). “The Varves and Climate of the Green River Epoch.” *U.S. Geological Survey Professional Papers* **158E**: 85-110.
- Bray, A.J. (1991). “The Ice Age Cometh. Remembering the Scare of Global Cooling.” *Policy Review*, Fall, pp. 82-84.
- Bray, J.R. (1959). “An Analysis of the Possible Recent Change in Atmospheric Carbon Dioxide Concentration.” *Tellus* **11**: 220-30.
- Brimblecombe, Peter (1995). “History of Air Pollution.” In *Composition, Chemistry, and Climate of the Atmosphere*, edited by Hanwant B. Singh, pp. 1-18. New York: Van Nostrand Reinhold.
- 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**(30): 139-41.

- Broecker, Wallace S., et al. (1968). "Milankovitch Hypothesis Supported by Precise Dating of Coral Reef and Deep-Sea Sediments." *Science* **159**: 297-300.
- 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 Donald W. Hood, 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. (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 Bruce A. Warren 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., 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., 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 (1989). "The Role of Ocean-Atmosphere Reorganizations in Glacial Cycles." *Geochimica et Cosmochimica Acta* **53**: 2465-2501.
- Broecker, Wallace S., et al. (1990). "A Salt Oscillator in the Glacial Atlantic? I. The Concept." *Paleoceanography* **5**: 469-77.
- 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. (1991). "The Great Ocean Conveyor." *Oceanography* **4**: 79-89.
- Broecker, Wallace S., et al. (1992). "Origin of the Northern Atlantic's Heinrich Events." *Climate Dynamics* **6**: 265-73.
- Broecker, Wallace S. (1995). *The Glacial World According to Wally*. Palisades, NY: Lamont-Doherty Earth Observatory.
- Broecker, Wallace S. (1995). "Cooling the Tropics." *Nature* **376**: 212-13.
- Broecker, Wallace S. (1997). "Thermohaline Circulation, the Achilles Heel of Our Climate System: Will Man-Made CO₂ Upset the Current Balance?" *Science* **278**: 1582-88.
- 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.
- 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*, 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. (1949). *Climate through the Ages: A Study of the Climatic Factors and Their Variations (Rev. Ed.)*. London: Benn.
- Brooks, C.E.P. (1950). "Selective Annotated Bibliography on Climatic Changes." *Meteorological Abstracts and Bibliography* **1**(4): 446-75.
- Brooks, C.E.P. (1951). "Geological and Historical Aspects of Climatic Change." In *Compendium of Meteorology*, edited by Thomas F. Malone, pp. 1004-18. Boston: American Meteorological Association.
- 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 Thomas P. Hughes and Agatha C. Hughes, pp. 413-31. Cambridge, MA: MIT Press.
- 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, Eduard. (1890). *Klimaschwankungen Seit 1700, Nebst Bemerkungen Über die Klimaschwankungen der Diluvialzeit*. Vienna: Hölzel.
- 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 CO₂-Induced Warming." *J. Geophysical Research* **90**: 11,679-88.
- 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*, 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., 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)*, edited by Wakefield Dort, Jr. and J. Knox Jones, Jr., Vol. **3**, pp. 53-74. Lawrence, Kan.: University of Kansas Press.
- Bryson, Reid A., and Wayne M. Wendland (1970). "Climatic Effects of Atmospheric Pollution." In *Global Effects of Environmental Pollution*, edited by S. F. Singer, pp. 130-38. New York: Springer-Verlag.
- 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 W.M. Wendland (1975). "Climatic Effects of Atmospheric Pollution." In *The Changing Global Environment*, edited by S.Fred Singer, 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.
- 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 Ian Allison, 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 Ian Allison, pp. 369-409. Washington, DC: International Association of Hydrological Sciences (publication no. 131).
- Budyko, Mikhail I. (1961). *Heat and Water Balance Theory of the Earth's Surface... And the Problem of the Transformation of Nature*. Water-Heat Balance Symposium of the 3rd Congress of the Geographical Society of the USSR.
- 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* **11**.
- 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 World Meteorological Organization (WMO), 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**(2): 33-41.
- Budyko, Mikhail I. (1977). *Climatic Changes. Translation of Izmeniia Klimata (Leningrad: Gidrometeoizdat, 1974)*. Washington, DC: American Geophysical Union.
- Burdick, Alan (2001). "Here Comes the Sun." *New York Times Magazine*, 4 Feb., pp. 9-10.
- Business Week (1976). "The World's Climate Is Getting Worse." *Business Week*, 2 Aug., p. 49.
- Business Week (1977). "CO₂ Pollution May Change the Fuel Mix." *Business Week*, 8 Aug., p. 25.
- Business Week (2006). "Global Warming." *Business Week* no. 4014 (December 18), p. 102.
- Byers, Horace R. (1959). "Carl-Gustaf Rossby, the Organizer." In *The Atmosphere and the Sea in Motion*, edited by Bert Bolin, pp. 56-59. New York: Rockefeller Institute Press.
- Byers, Horace R. (1974). "History of Weather Modification." In *Weather and Climate Modification*, edited by W.N. Hess, 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*, April 12, pp. 14-15.
- Calder, Nigel (1975). *The Weather Machine*. New York: Viking.
- 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.
- 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 P.A. Schilpp, pp. 413-63. La Salle, IL: Open Court.

- Cane, Mark A., and Michael Evans (2000). "Do the Tropics Rule?" *Science* **290**: 1107-8.
- Carey, John (2004). "Global Warming." *Business Week*, 16 Aug., pp. 60-69. Carson, D.J. (1999). "Climate Modeling: Achievement and Prospects." *Quarterly J. Royal Meteorological Society* **125**: 1-27.
- Carey, John (2007). "Climate Wars: Episode Two." *Business Week* no. 4031 (April 23), pp. 90-92.
- Carter, D.J.T., and L. Draper (1988). "Has the North-East Atlantic Become Rougher?" *Nature* **332**: 494.
- Cerling, Thure E. (1991). "Carbon Dioxide in the Atmosphere; Evidence from Cenozoic and Mesozoic Paleosols." *American Journal of Science* **291**: 377-400.
- Cess, Robert D., and Gerald L. Potter (1984). "A Commentary on the Recent CO₂-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, 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**(10): 1623-27.
- Chamberlin, Thomas C. (1897). "A Group of Hypotheses Bearing on Climatic Changes." *J. Geology* **5**(653-83).
- 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**(2): 239-49.
- Chandrasekhar, Subrahmanyam (1950). *Radiative Transfer*. Oxford: Clarendon.
- 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].
- 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. (1997). "CH₄ and Delta-¹⁸O of O₂ 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(C12):** 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 S. Gerard Jennings, 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 Henning Rodhe 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*, edited by Gregory A. Good, Vol. **2**, 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].
- Chiang, John C. H., and Athanasios Koutavas (2004). "Tropical Flip-Flop Connections." *Nature* **432**: 684-85.
- Chisholm, Sallie W. (2000). "Stirring Times in the Southern Ocean." *Nature* **407**: 685-87.
- Christensen, T. R., T. Johansson, H. J. Åkerman, 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., 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.
- Chylek, P., and James A. Coakley, Jr. (1974). "Aerosols and Climate." *Science* **183**: 75-77.
- 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 Guy P. Brasseur 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**(9): 80.
- Clark, David A., Stephen C. Piper, Charles D. Keeling, et al. "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** (2003): 5852-57.
- Clark, P.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. (1999). "Northern Hemisphere Ice-Sheet Influences on Global Climate Change." *Science* **286**: 1104-11.
- Clarke, Frank Wigglesworth (1920). *The Data of Geochemistry*. Washington, DC: Govt. Printing Office.
- CLIMAP, CLIMAP project members (1981). "Seasonal Reconstruction of the Earth's Surface at the Last Glacial Maximum". Boulder, CO, Geological Society of America Map and Chart Series MC-36
- CLIMAP, CLIMAP project members (1984). "The Last Interglacial Ocean." *Quaternary Research* **21**: 123-224.
- CLIMAP project members (A. McIntyre, et al.) CLIMAP (1976). "The Surface of the Ice-Age Earth." *Science* **191**: 1131-37.
- Cline, R.M., and J.D. Hays, Eds. (1976). *Investigation of Late Quaternary Paleoceanography and Paleoclimatology*. Boulder, CO: Geological Society of America Memoir 145.
- Clover, 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 pp. 35.
- 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. (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., 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.
- COHMAP, 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.
- 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 (online at <http://www.lib.noaa.gov/edocs/stratton/>).
- 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 (in press). *A History of Atmospheric Science at NASA (Draft Title)*. Baltimore, MD: Johns Hopkins University Press.
- Cook, J. Gordon (1957). *Our Astonishing Atmosphere*. New York: Dial.
- Coon, Carleton S. (1953). "Climate and Race." In *Climatic Change*, edited by Harlow Shapley, 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 (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.
- Coughlan, R. (1950). "That Infernal Weather." *Life*, 31 July, pp. 74-76+.
- 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.
- Couzin, Jennifer (1999). "Landscape Changes Make Regional Climate Run Hot and Cold." *Science* **283**: 317-19.
- Cowen, Robert C. (1960). *Frontiers of the Sea: The Story of Oceanographic Exploration*. Garden City, NY: Doubleday.
- 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 R.O. Reid 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.

- Craig, H.B., and C.C. Chou (1982). "Methane: The Record in Polar Ice Cores." *Geophysical Research Letters* **9**: 1221-24.
- 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 CO₂ 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.
- 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 James R. Fleming, pp. 21-39. Boston: American Meteorological Society.
- Crichton, Michael (2004). *State of Fear*. New York: HarperCollins.
- 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., and Gerald R. North (1991). *Paleoclimatology*. New York: Oxford University Press.
- Crowley, Thomas J. (1992). "North Atlantic Deep Water Cools the Southern Hemisphere." *Paleoceanography* **7**: 489-97.
- Crowley, Thomas J. (2000). "Causes of Climate Change over the Past 1000 Years." *Science* **289**: 270-77 [doi: 10.1126/science.289.5477.270].
- Crowley, Thomas J. (2002). "Cycles, Cycles Everywhere." *Science* **295**: 1473-74.
- 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.
- Crutzen, Paul J., et al. (1979). "Biomass Burning as a Source of the Atmospheric Gases CO, H₂, N₂O, CH₃Cl, 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 (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].

- Cuffey, Kurt M. (2004). "Into an Ice Age." *Nature* **431**: 133-34.
- Curry, Ruth, Bob Dickson, Igor Yashayaev (2003). "A Change in the Freshwater Balance of the Atlantic Ocean over the Past Four Decades." *Nature* **426**: 826-29.
- 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, Judith A., et al. (1995). "Sea Ice-Albedo Climate Feedback Mechanism." *Journal of Climate* **9**: 240-47.
- 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.
- Dalmedico, Amy Dahan (2001). "History and Epistemology of Models: Meteorology (1946-1963) as a Case Study." *Archive for History of Exact Sciences* **55**: 395-422.
- 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**, no. 39: 370, 374.
- Dansgaard, W. (1954). "The O18 Abundance in Fresh Water." *Geochimica et Cosmochimica Acta* **6**: 241-60.
- Dansgaard, W. (1964). "Stable Isotopes in Precipitation." *Tellus* **16**: 436-68.
- Dansgaard, Willi (2004). *Frozen Annals: Greenland Ice Sheet Research*. Copenhagen: Dept. of Geophysics of the Niels Bohr Institute at the University of Copenhagen.
- Dansgaard, W., et al. (1969). "One Thousand Centuries of Climatic Record from Camp Century on the Greenland Ice Sheet." *Science* **166**: 377-81.
- Dansgaard, W., and Henrik Tauber (1969). "Glacier Oxygen-18 Content and Pleistocene Ocean Temperatures." *Science* **166**: 499-502.
- Dansgaard, W., et al. (1971). "Climatic Record Revealed by the Camp Century Ice Core." In *The Late Cenozoic Glacial Ages*, edited by K. K. Turekian, pp. 37-56. New Haven, CT: Yale University Press.
- Dansgaard, W., et al. (1972). "Speculations About the Next Glaciation." *Quaternary Research* **2**: 396-98.
- Dansgaard, W., et al. (1973). "Stable Isotope Glaciology." *Meddelelser om Grønland* **197**(2): 1-53.
- Dansgaard, W., et al. (1982). "A New Greenland Deep Ice Core." *Science* **218**: 1273-77.
- Dansgaard, W., et al. (1989). "The Abrupt Termination of the Younger Dryas Climate Event." *Nature* **339**: 532-34.
- Dansgaard, W., et al. (1993). "Evidence for General Instability of Climate from a 250-Kyr Ice-Core Record." *Nature* **364**: 218-220.

- Dansgaard, W. , 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 James E. Hansen and Taro Takahashi, pp. 288-98. Washington, DC: American Geophysical Union.
- David, E.E., Jr. (1984). "Inventing the Future: Energy and the CO₂ 'Greenhouse' Effect." In *Climate Processes and Climate Sensitivity. (Geophysical Monograph 29, Maurice Ewing Vol. 5)*, edited by James E. Hansen 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.
- 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.*, 10 March, p. 9.
- Dawkins, Richard (1976, 2nd ed. 1989). *The Selfish Gene*. Oxford: Oxford University Press.
- de Vries, H. L. (1958). "Variation in Concentration of Radiocarbon with Time and Location on Earth." *Proceedings Koninklijke Nederlandse Akademie Wetenschappen* **B, 61**: 94-102.
- Deacon, G.E.R. (1957). "The Oceans." In *The Earth and Its Atmosphere*, edited by D.R. Bates, pp. 74-87. New York: Basic Books.
- Defant, A. (1921). "Die Zirkulation der Atmosphäre in den Gemässigten Breiten der Erde." *Geografiska Annaler* **3**: 209-66.
- 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 CO₂ 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 in the 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 Press. Online at <http://www.ipcc.ch/>.
- 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.
- Derwent, R. (1990). *Trace Gases and Their Relative Contribution to the Greenhouse Effect. Report AERE-R13716*, Harwell, Oxon, UK, Atomic Energy Research Establishment 95 pp.
- 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.
- Dick, Steven J. (1998). *Life on Other Worlds: The 20th-Century Extraterrestrial Life Debate*. Cambridge: Cambridge University Press.
- Dickens, Gerald R., J.R. O'Neil, D.K. Rea, 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.
- Dickinson, R.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 Commission on Physical Sciences National Research Council, Mathematics and Resources, Board on Atmospheric Sciences and Climate, Committee on Global Change, pp. 98-102. Washington, DC: National Academy Press.
- Dickson, Andrew G. (1992). "The Development of the Alkalinity Concept in Marine Chemistry." *Marine Chemistry* **40**: 49-63.
- Dickson, Bob, Igor Yashayaev, Jens Meincke, et al. (2002). "Rapid Freshening of the Deep North Atlantic Ocean over the Past Four Decades." *Nature* **416**: 832-37.
- 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.
- 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.
- Doe, Bruce R. (1999). "A Potomac Perspective on the Growing Global Greenhouse." *Eos, Transactions of the American Geophysical Union* **80**(1): 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 John Krige and Dominique Pestre, pp. 361-88. London: Harwood Academic.
- Doel, Ron (2001). "Constituting the Postwar Earth Sciences: The Military's Influence on the Environmental Sciences in American after 1945." Unpublished essay.
- Doel, Ronald E. (1998). "Geophysics in Universities." In *Sciences of the Earth. An Encyclopedia of Events, People, and Phenomena*, edited by Gregory A. Good, Vol. **1**, pp. 380-84. New York: Garland.
- Doel, Ron (2002). "Why Value History?" *Eos, Transactions of the American Geophysical Union* **83**, no. 47: 544-45.
- Domestic Council, Environmental Resources Committee, Subcommittee on Climate Change (1974). *A United States Climate Program*. Washington, DC: Domestic Council.
- Doney, Scott C. (2006). "Plankton in a Warmer World." *Nature* **444**: 695-96.

- 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.
- Dotto, Lydia, and Harold Schiff (1978). *The Ozone War*. Garden City, NY: Doubleday.
- Dronia, Horst (1967). "Der Stadteinfluss Auf Den Weltweiten Temperatortrend." *Meteorologische Abhandlungen* **74**(4): 1-65.
- Droz dov, 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.
- Dubois, Eugene (1895). *The Climates of the Geological Past and Their Relation to the Evolution of the Sun*. London: Sonnenschein.
- 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 D.R. Bates, pp. 113-29. New York: Basic Books.
- 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**(D15): 20,101-20,114.
- Economist (2000). "Beyond the Hague." *Economist*, 2 Dec., pp. 19-20.
- Eddy, Jack A. (1975a). "The Case of the Missing Sunspots." *Bulletin of the American Astronomical Society* **7**: 365.
- Eddy, Jack A. (1975b). In *Proceedings of the Workshop: The Solar Constant and the Earth's Atmosphere*, edited by H. Zirin and J. Walter, pp. 98-108. Big Bear City, CA: Big Bear Observatory.
- Eddy, Jack A. (1976). "The Maunder Minimum." *Science* **192**: 1189-1202.
- Eddy, Jack A. (1977a). "The Case of the Missing Sunspots." *Scientific American*, 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 Oran R. White, pp. 51-71. Boulder, CO: Colorado Associated University Press.
- 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 Thomas P. Hughes 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 David A. Randall, 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 Clark A. Miller 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., 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 Clark A. Miller and Paul N. Edwards, pp. 219-46. Cambridge, MA: MIT Press.
- 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.
- 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 J. Bartels, pp. 1-154. Berlin: Springer.
- Elliott, William P. (1977-89). Diaries (1977-1989), Elliott Papers on Carbon Dioxide and Climate Change, AIP.
- 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, 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 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). "Pleistocene Temperatures." *J. Geology* **66**: 264-.
- Emiliani, Cesare (1958b). "Ancient Temperatures." *Scientific American*, Feb., pp. 54-63.
- Emiliani, Cesare, and Johannes Geiss (1959). "On Glaciations and Their Causes." *Geologisches*

- Rundschau* **46**: 576-601.
- Emiliani, Cesare (1966a). "Paleotemperature Analysis of Caribbean Cores... And a Generalized Temperature Curve for the Past 425,000 Years." *J. Geology* **74**: 109-125.
- Emiliani, Cesare (1966b). "Isotopic Paleotemperatures." *Science* **154**: 851-57.
- 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.
- Engel, Leonard (1953). "The Weather Is Really Changing." *New York Times Magazine*, 12 July, p. 7ff.
- 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 32 pp. (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.
- 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). In *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.

- Faegre, A. (1972). "An Intransitive Model of the Earth-Atmosphere-Ocean System." *J. Applied Meteorology* **11**: 4-6.
- Faegri, Knot, et al. (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.
- 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.
- 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].
- 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 Michael Shortland. Oxford: British Society for the History of Science.
- 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 H. Amaldi et al., pp. 978-88. Chicago: University of Chicago Press.
- Finkbeiner, Ann (2006). *The Jasons. The Secret History of Science's Postwar Elite*. New York: Viking.
- Fisher, Arthur (1988). "One Model to Fit All." *Mosaic* **19**(3/4): 52-59.
- 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.
- 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. (2000). "T.C. Chamberlin, Climate Change, and Cosmogony." *Studies in History and Philosophy of Modern Physics* **31B**: 293-308.
- Fleming, James R. (2007). "The Climate Engineers." *Wilson Quarterly* **31**: 46-60.

- Fletcher, J. O., Ed. (1966). *Symposium on the Arctic Heat Budget and Atmospheric Circulation. Proceedings*. Santa Monica, CA: RAND Corp.
- 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.
- Flowers, E.C., et al. (1969). "Atmospheric Turbidity over the United States, 1961-1966." *J. Applied Meteorology* **8**: 955-62.
- 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 CO₂ 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.
- 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. Online at <http://www.ipcc.ch/>.
- 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**, no. 22: 205, 08.
- 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*, Edited by Gaston Darboux, Vol. **2**. Paris: Gauthier-Villars.
- 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.
- 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).
- Franz, Wendy E. (1997). *The Development of an International Agenda for Climate Change: Connecting Science to Policy (IASA Interim Report Ir-97-034)*, Laxenburg, Austria, International Institute for Applied Systems Analysis pp. 35. Online at

- [http://citeseer.ist.psu.edu/cache/papers/cs/6624/http://zSzzSzwww.iiasa.ac.atzSzPublicatio
nszSzDocumentszSzIR-97-034.pdf/franz97development.pdf](http://citeseer.ist.psu.edu/cache/papers/cs/6624/http://zSzzSzwww.iiasa.ac.atzSzPublicatio
nszSzDocumentszSzIR-97-034.pdf/franz97development.pdf)
- Freeman, Kenneth P., and Kuo-Nan Liou (1979). "Climatic Effects of Cirrus Clouds." *Advances in Geophysics* **21**: 231-87.
- Friedan, Betty (1958). "The Coming Ice Age." *Harper's*, Sept., pp. 39-45.
- Friedlingstein, P., et al. (2006). "Climate-Carbon Cycle Feedback Analysis, Results from the C4 Mip Model Intercomparison." *Journal of Climate* **19**: 3337-53.
- Friedman, Robert Marc (1989). *Appropriating the Weather: Vilhelm Bjerknes and the Construction of a Modern Meteorology*. Ithaca, NY: Cornell University Press.
- 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 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 Regresson Techniques." *Journal of Geophysical Research* **67**: 1413-20.
- Fritts, H.C. (1976). *Tree Rings and Climate*. London: Academic Press.
- Fröhlich, C. (1977). "Contemporary Measures of the Solar Constant." In *The Solar Output and Its Variation*, edited by Oran R. White. Boulder, CO: Colorado Associated University Press.
- From, Eric, and Charles D. Keeling (1986). "Reassessment of Late 19th-Century Atmospheric Carbon Dioxide Variations." *Tellus* **38B**: 87-105.
- Fu, Qiang, Celeste M. Johanson, Stephen G. Warren, 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. Article 2B, Final Report, Contract AF 19(604)-8361
- 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*, March, pp. 18-25.
- 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.
- 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, 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.
- 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.
- 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 CO₂ 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.
- 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.
- 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 CO₂ 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.
- Glantz, Michael H. (1977). "Nine Fallacies of Natural Disaster: The Case of the Sahel." *Climatic Change* **1**: 69-84.
- 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 Peter J. Brancazio 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.
- 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"
- Goody, R.M., and G.D. Robinson (1951). "Radiation in the Troposphere and Lower Stratosphere." *Reviews of Modern Meteorology* **77**: 131-87.
- 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.
- 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.
- 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.
- Gregg, Michael C., et al. (2003). "Reduced Mixing from the Breaking of Internal Waves in Equatorial Waters." *Nature* **422**: 513-15.
- Gregory, J.W. (1908). "Climatic Variations: Their Extent and Causes." *Smithsonian Institution Annual Report*: 339-54.
- Gregory, Jonathan M., Philippe Huybrechts, Sarah C.B. Raper (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 CO₂ Concentration." *Geophysical Research Letters* **32**: L12703 [doi:10.1029/2005GL023209].
- Gribbin, John (1976). "Man's Influence Not yet Felt by Climate." *Nature* **264**: 608.
- 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.
- 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.
- 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.
- Grousseau, Mathieu, et al. (2006). "Refroidir La Terre!" *Science & vie* no. 1071 (December), pp.

- 54-59.
- Guilderson, Thomas P., et al. (1994). "Tropical Temperature Variations since 20,000 Years Ago: Modulating Interhemispheric Climate Change." *Science* **263**: 663-65.
- Gunson, J.R., et al. (2006). "Climate Sensitivity to Ocean Dimethylsulphide Emissions." *Geophysical Research Letters* **33**: L07701 [doi:10.1029/2005GL024982].
- Haag, Amanda (2006). "Church Joins Crusade over Climate Change." *Nature* **44**: 136-37.
- Haidvogel, Dale B., and Frank O. Bryan (1992). "Ocean General Circulation Modeling." In *Climate System Modeling*, edited by Kevin E. Trenberth, 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.
- 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
- 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.
- 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 14c Time Scale." *Radiocarbon* **28**: 284-91.
- Hammer, Claus U., et al. (1997). "Greenland Summit Ice Cores." *J. Geophysical Research* **102**(C12).
- 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. (1972). "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, William R. Turrell, Svein Østerhus (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., 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 James E. Hansen 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., et al. (1987). *Prediction of near-Term Climate Evolution: What Can We Tell Decision-Makers Now?*, Preparing for Climate Change. Proceedings of the First North American Conference on Preparing for Climate Change, October 27-29, 1987. Washington, DC: Government Institutes, Inc.
- Hansen, James E., and Sergej Lebedeff (1987). "Global Trends of Measured Surface Air Temperature." *J. Geophysical Research* **92**(D11): 13345-72.
- 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., et al. (1988). "Global Climate Changes as Forecast by Goddard Institute for Space Studies 3-Dimensional Model." *J. Geophysical Research* **93**: 9341-64.
- 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**: 142-58.
- Hansen, James E., et al. (2000a). "Climate Modeling in the Global Warming Debate." In *General Circulation Model Development*, edited by David A. Randall, 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**(D20): 23,947-63.
- Hansen, James E., 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 E. (2005). "A Slippery Slope: How Much Global Warming Constitutes 'Dangerous Anthropogenic Interference'?" (Editorial) *Climatic Change* **68**: 269-79.

- 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>.
- Hapgood, Charles H. (1958). *Earth's Shifting Crust: A Key to Some Basic Problems of Earth Science*. New York: Pantheon.
- Hare, F.K. (1953). *The Restless Atmosphere*. London: Hutchinson.
- 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].
- 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. (1985). "Methane Flux from Northern Peatlands." *Nature* **315**: 652-54.
- 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.
- Harshvardhan, and R.D. Cess (1976). "Stratospheric Aerosols: Effect Upon Atmospheric Temperature and Global Climate." *Tellus* **27**: 1-10.
- Harshvardhan (1979). "Perturbations of the Zonal Radiative Balance by a Stratospheric Aerosol Layer." *J. Atmospheric Sciences* **36**: 1274-85.
- Hart, David (1992). "Strategies of Research Policy Advocacy: Anthropogenic Climate Change Research, 1957-1974". Cambridge, MA, John F. Kennedy School of Government, Harvard University. Report 92-08
- 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. (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.
- 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.
- Hayes, Brian (2001). "The Weatherman." *American Scientist*, Jan.-Feb., pp. 10-14.
- Hays, James D. (1973). "The Ice Age Cometh." *Saturday Review of the Sciences*, 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.
- Heath, James, et al. (2005). "Rising Atmospheric CO₂ 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.
- 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. Online at <http://www.ipcc.ch/>.
- 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.
- Henderson-Sellers, A., and P.J. Robinson (1986). *Contemporary Climatology*. Harlow, England: Longman.
- Herman, Benjamin J., et al. (1978). "Atmospheric Dust: Climatological Consequences (Exchange of Letters)." *Science* **201**: 378-79.
- Herman, John R., Richard A. Goldberg (1978). *Sun, Weather and Climate [K-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 C.J. Van der Veen and J. Oerlemans, pp. 185-202. Dordrecht: Reidel.
- Hertsgaard, Mark (2006). "While Washington Slept." *Vanity Fair* no. 549 (May), p. 200ff.

- 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.
- Himpel, Kurt (1947). "Ein Beitrag Zum Eiszeitproblem." *Zeitschrift für Naturforschung* **2a**: 419-27.
- Hitchcock, Dian R., and James E. Lovelock (1967). "Life Detection by Atmospheric Analysis." *Icarus* **7**: 149-59.
- 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.
- 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.
- 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 C. Covey (1992). "Deriving Global Sensitivity from Palaeoclimate Reconstructions." *Nature* **360**: 573-76.
- Hoffert, Martin I., et al. (1999). "Solar Variability and the Earth's Climate." *Nature* **401**: 764.
- Hoffmann, P. F., et al. (1998). "A Neoproterozoic Snowball Earth." *Science* **281**: 1342-46.
- Hofmann, D.J. (1988). "Aerosols from Past and Present Volcanic Emissions." In *Aerosols and Climate*, edited by Peter V. Hobbs and M. Patrick McCormick, pp. 195-214. Hampton, VA: Deepak Publishing.
- Högbom, Arvid (1894). "Om Sannolikheten För Sekulära Förändringar I Atmosfärens Kolsyrehalt." *Svensk kemisk Tidskrift* **6**: 169-77.
- Holland, Marika M, et al. (2006). "Future Abrupt Reductions in the Summer Arctic Sea Ice." *Geophysical Research Letters* **33**: L23503 [doi:10.1029/2006GL028024].
- 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.
- Holmes, Bob (2004). "Melting Ice, Global Warming." *New Scientist*, 2 Oct., pp. 8-9.
- Hood, Donald W. (1971). *Impingement of Man on the Oceans*. New York: Wiley Interscience.
- 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 James Rodger Fleming, 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, John (1997). *Global Warming: The Complete Briefing*. Cambridge: Cambridge University Press.
- 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 CO₂." In *Radioactive Dating and Methods of Low-Level Counting. Proceedings of a Symposium, Monaco, 1967* pp. 57-68. Vienna: International Atomic Energy Agency.
- Howat, Ian M., et al. (2007). "Rapid Changes in Ice Discharge from Greenland Outlet Glaciers." *Science* **315**: 1559-61 [doi:10.1126/science.1138478].
- 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., and Kenneth Schatten (1997). *The Role of the Sun in Climate Change*. New York: Oxford University Press.
- 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.
- 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, 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. (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.
- 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.
- 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*, Dec., pp. 749-54.

- Humphreys, W.J. (1940). *Physics of the Air*. New York: McGraw-Hill.
- 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 Visser (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.E. (1954). "The Biochemistry of the Terrestrial Atmosphere." In *The Earth as a Planet*, edited by G. Kuiper, pp. chapter 8. Chicago: Chicago University Press.
- Hutchinson, G.N. (1948). "Circular Causal Systems in Ecology." *Annals of the New York Academy of Sciences* **50**: 221-46.
- 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.
- 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*, 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 CO₂/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.
- 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 Karl K. Turekian, pp. 71-181. New Haven, CT: Yale University Press.
- Imbrie, John, et al. (1975). "Appendix A: Survey of Past Climates." In *Understanding Climate Change: A Program for Action*, edited by GARP (U.S. Committee for the Global Atmospheric Research Program), pp. 127-95. Washington, DC; Detroit, MI: National Academy of Sciences; Grand River Books.
- Imbrie, John, and Katherine Palmer Imbrie (1979). *Ice Ages: Solving the Mystery*. Cambridge, MA: Harvard University Press. (N.b. there is a revised 1986 edition.)
- 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, and Katherine Palmer Imbrie (1986). *Ice Ages: Solving the Mystery*. Cambridge, MA: Harvard University Press.
- 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 A. Berger et al., pp. 269-305. Dordrecht: Reidel.
- 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).
- Impact Team (1977). *The Weather Conspiracy : The Coming of the New Ice Age*. New York: Ballantine Books.
- Ingersoll, Andrew P. (1969). “The Runaway Greenhouse: A History of Water on Venus.” *J. Atmospheric Sciences* **26**: 1191-98.
- 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
- 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 Ford N. Furkhart et al. Tucson, AZ: University of Arizona, Udall Center for Studies in Public Policy.
- International Council of Scientific Unions (1986). *The International Geosphere Biosphere Programme: A Study of Global Change*. Paris: ICSU.
- IPCC (Intergovernmental Panel on Climate Change) (1990). *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.
- IPCC (Intergovernmental Panel on Climate Change) (1992). *Climate Change 1992: The Supplementary Report to the IPCC Scientific Assessment*, Edited by J.T. Houghton et al. Cambridge: Cambridge University Press.
- IPCC (Intergovernmental Panel on Climate Change) (1996). *Climate Change 1995: The Science of Climate Change*, Edited by J.T. Houghton et al. Cambridge: Cambridge University Press (online at <http://www.ipcc.ch/pub/reports.htm>).
- IPCC (Intergovernmental Panel on Climate Change) (1999). “IPCC Special Report: Aviation and the Global Atmosphere”. Cambridge, Cambridge University Press (online at <http://www.ipcc.ch/pub/reports.htm>)
- IPCC (Intergovernmental Panel on Climate Change) (2001). *Climate Change 2001: The Scientific Basis. Contribution of Working Group I to the Third Assessment Report of the IPCC*, Edited by J.T. Houghton et al. Cambridge: Cambridge University Press (online at <http://www.ipcc.ch/pub/reports.htm>).
- IPCC (Intergovernmental Panel on Climate Change) (2007a). “Summary for Policymakers.” 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. 1-18. Cambridge and New York: Cambridge University Press. Online at <http://www.ipcc.ch/>.
- IPCC (Intergovernmental Panel on Climate Change) (2007b). *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the IPCC*. [Summary for Policymakers. See also Solomon (2007)]. Cambridge: Cambridge University Press. (online at <http://www.ipcc.ch/pub/reports.htm>).
- IPCC (Intergovernmental Panel on Climate Change) (2007c). *Climate Change 2007: Climate Change Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the IPCC*. (online at <http://www.ipcc.ch/>).
- IPCC (Intergovernmental Panel on Climate Change) (2007d). *Climate Change 2007: Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. B. Metz, et al. (Eds.). Cambridge and New York: Cambridge University Press. Online at http://www.mnp.nl/ipcc/docs/FAR/SPM_%20WGIII_rev5.pdf
- Isaksen, Ivar S.A., and Oystein Hov (1987). "Calculations of Trends in the Tropospheric Concentrations of O₃, OH, CO, CH₄ and NO_x." *Tellus* **39B**: 271-85.
- 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.
- Jacobson, Mark Z. (2001). "Strong Radiative Heating Due to the Mixing State of Black Carbon in Atmospheric Aerosols." *Nature* **409**: 695-98.
- Josephson, Paul R. (2002). *Industrialized Nature: Brute Force Technology and the Transformation of the Natural World*. Washington, DC: Island Press/Shearwater.
- Jäger, Jill (1992). "From Conference to Conference." *Climatic Change* **20**: iii-vii.
- Jäger, Jill, and T. O'Riordan (1996). "The History of Climate Change Science and Politics." In *Politics of Climate Change: A European Perspective*, edited by Jäger, Jill, and T. O'Riordan, London: Routledge.
- 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 (online at <http://www.ipcc.ch/>).
- Jasanoff, Sheila (2001). "Image and Imagination: The Formation of Global Environmental Consciousness." In *Changing the Atmosphere. Expert Knowledge and Environmental Governance*, edited by Clark A. Miller 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
- Jensen, James E. (1990). "An Unholy Trinity: Science, Politics and the Press" (Unpublished Talk)
- 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**(3211-24).
- Johnson, R.G., and B.T. McClure (1976). "A Model for Northern Hemisphere Continental Ice Sheet Variations." *Quaternary Research* **6**: 325-53.
- Johnston, H. (1971). "Reduction of Stratospheric Ozone by Nitrogen Oxide Catalysts from Supersonic Transport Exhaust." *Science* **173**: 517-22.
- 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, 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. (1986). "Global Temperature Variations between 1861 and 1984." *Nature* **322**: 430-434.
- 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 Millennia." *Reviews of Geophysics* **2004**: 1-42 [doi:10.1029/2003RG000143].
- 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 Hermann E. Gerber 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.
- 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.
- Kaiser, Jocelyn (2000). "Citizen-Scientist Guru." *Science* **287**: 1189.
- 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.
- 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.
- 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. (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. (eds.) (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. Washington, DC:
- 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.
- 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. (Eds.) (1985) *Climate Impact Assessment: Studies of the Interaction of Climate and Society*. Scope Publication 27. London: Wiley.
- Katz, Miriam E., et al. (1999). "The Source and Fate of Massive Carbon Input During the Latest Paleocene Thermal Maximum." *Science* **286**: 1531-33.
- 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 S. I. Rasool, pp. 251-329. New York: Plenum.
- Keeling, Charles D., et al. (1976). "Atmospheric Carbon Dioxide Variations at Mauna Loa Observatory." *Tellus* **28**: 538-51.
- Keeling, Charles D. (1978). "The Influence of Mauna Loa Observatory on the Development of Atmospheric CO₂ Research." In *Mauna Loa Observatory. A 20th Anniversary Report*. (National Oceanic and Atmospheric Administration Special Report, September 1978), edited by John Miller, pp. 36-54. Boulder, CO: NOAA Environmental Research Laboratories (online at <http://www.mlo.noaa.gov/HISTORY/Fhistory.htm>).
- Keeling, Charles D., et al. (1989). "A Three-Dimensional Model of Atmospheric CO₂ Transport Based on Observed Winds." In *Aspects of Climate Variability in the Pacific and the Western Americas (AGU Monograph 55)*, edited by David H. Peterson, pp. 165-363. Washington, DC: American Geophysical Union.
- Keeling, Charles D., et al. (1996a). "Increased Activity of Northern Vegetation Inferred from

- Atmospheric CO₂ 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. (1996b). “Global and Hemispheric CO₂ Sinks Deduced from Changes in Atmospheric O₂ Concentration.” *Nature* **381**: 218-21.
- Keith, David W. (2000). “Geoengineering the Climate: History and Prospect.” *Annual Review of Energy and the Environment* **25**: 245-84.
- Kellogg, William W. (1971). “Predicting the Climate.” In *Man's Impact on the Climate [Study of Critical Environmental Problems (SCEP) Report]*, edited by William H. Matthews, 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. (1980). “Aerosols and Climate.” In *Interactions of Energy and Climate*, edited by W. Bach 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.
- Kempton, Willett (1991). “Lay Perspectives on Global Climate Change.” *Global Environmental Change*: 183-208.
- 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].
- 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.
- Keppler, Frank, et al. (2006). “Methane Emissions from Terrestrial Plants under Aerobic Conditions.” *Nature* **439**: 187-91 [doi: 10.1038/nature04420].
- 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. (2000). "Ice, Mud Point to CO₂ Role in Glacial Cycle." *Science* **289**: 1868.
- Kerr, Richard A. (2004a). "An Early Start for Greenhouse Warming?" *Science* **303**: 306-07.
- 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). "Latest Forecast: Stand by for a Warmer, but Not Scorching, World." *Science* **312**: 351.
- Kerr, Richard A. (2006). "Global Warming May Be Homing in on Atlantic Hurricanes." *Science* **314**: 910-11.
- Kerr, Richard A. (2006). "Pollute the Planet for Climate's Sake?" *Science* **314**: 401-03.
- 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.
- Kimble, George H.T. (1950). "Changing Climate." *Scientific American*, April, pp. 48-53.
- Kincer, J.B. (1934). "Is Our Climate Changing to Milder?" *Scientific Monthly*, July, pp. 59-62.
- Kintisch, Eli (2006). "Evangelicals, Scientists Reach Common Ground on Climate Change." *Science* **311**: 1082-83.
- Kirschvink, J.L. (1992). "A Paleogeographic Model for Vendian and Cambrian Time. ['Snowball Earth']." In *The Proterozoic Biosphere: A Multidisciplinary Study*, edited by J.W. Schopf et al., pp. 567-81. Cambridge: Cambridge University Press.
- 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.
- 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 CO₂: Influence of the Marine Biota at High Latitude." *J. Geophysical Research* **89**: 4629-37.
- Knutson, T.R., et al. (1998). "Simulated Increase of Hurricane Intensities in a CO₂-Warmed Climate." *Science* **279**: 1018-20.
- Knutson, T.K., and R.E. Tuleya (2004). "Impact of CO₂-Induced Warming on Simulated Hurricane Intensity and Precipitation." *Journal of Climate* **17**: 3477-95.
- Knutti, Reto, et al. (2002). "Constraints on Radiative Forcing and Future Climate Change from Observations and Climate Model Ensembles." *Nature* **416**: 719-22.
- 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 James Rodger Fleming, pp. 511-40. Boston: American Meteorological Society.
- Kohfeld, Kare E., et al. (2005). "Role of Marine Biology in Glacial-Interglacial CO₂ Cycles." *Science* **308**: 74-78 [doi: 10.1126/science.1105375].
- Kolbert, Elizabeth (2006). *Field Notes from a Catastrophe*. London: Bloomsbury.
- Kolbert, Elizabeth (2006). "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.
- Köppen, W. (1873). "Über Mehrjährige Perioden der Witterung, Insbesondere Über die 11jährige Periode der Temperatur." *Zeitschrift der Osterreichischen Gesellschaft für Meteorologie* **8**: 241-48, 141-50.
- Köppen, W., and A. Wegener (1924). *Die Klimate der Geologischen Vorzeit*. Berlin: Borntraeger.
- 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].
- Koyama, Tadashi (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, E. Frederick, S. Manizade, 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.
- Krook, Max (1953). “Interstellar Matter and the Solar Constant.” In *Climatic Change. Evidence, Causes, and Effects*, edited by Harlow Shapley, 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.
- Kuhn, Thomas S. (1962). *The Structure of Scientific Revolutions*. Chicago: University of Chicago Press.
- Kuiper, G.P., Ed. (1952). *The Atmospheres of the Earth and Planets*. Chicago: University of Chicago Press.
- Kuiper, Gerald P., and Barbara M. Middlehurst, Eds. (1961). *Planets and Satellites*. The Solar System Vol. **3**. Chicago: University of Chicago Press.
- Kuiper, Gerard P, Ed. (1953). *The Sun*. The Solar System Vol. **1**. 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.
- 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*, April, pp. 96-98.
- Kunzig, Robert (2004). “20,000 Microbes under the Sea.” *Discover*, December, 32-41.
- Kunzig, Robert (2006). “Hurricanes Intensify Global-Warming Debate.” *Discover* **27**, no. 1 (January), pp. 20-23.
- 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 A.L. Berger 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 James R. Fleming, 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 Clark A. Miller and Paul N. Edwards, pp. 135-65. Cambridge, MA: MIT Press.
- Labitzke, K., and H. van Loon (1999). "The Signal of the 11-Year Sunspot Cycle in the Upper Troposphere-Lower Stratosphere." *Space Science Reviews* **80**: 393-410.
- Lachenbruch, A.H., and B.V. Marshall (1986). "Changing Climate: Geothermal Evidence from Permafrost in the Alaskan Arctic." *Science* **234**: 689-96.
- Lacis, Andrew A., and James E. Hansen (1974). "A Parameterization for the Absorption of Solar Radiation in the Earth's Atmosphere." *J. Atmospheric Sciences* **31**: 118-33.
- Lakatos, Imre (1970). "Falsification and the Methodology of Scientific Research Programmes." In *Criticism and the Growth of Knowledge*, edited by Imre Lakatos and Alan Musgrave, pp. 91-196. Cambridge: Cambridge University Press.
- Lamb, Hubert H. (1959). "Our Changing Climate, Past and Present (Address to BAAS)." *Weather*, Oct., pp. 299-318 (reprinted in Lamb, *Changing Climate*, pp. 1-20).
- Lamb, Hubert H. (1966a). *The Changing Climate: Selected Papers*. London.
- Lamb, Hubert H. (1966b). "Britain's Climate in the Past, Address to BAAS, 1964." In *The Changing Climate. Selected Papers* pp. 170-95. London.
- Lamb, Hubert H. (1969). "Climatic Fluctuations." In *General Climatology*, edited by H. Flohn, World Survey of Climatology, Vol. **2**, pp. 173-247. Amsterdam: Elsevier.
- Lamb, Hubert H. (1970). "Volcanic Dust in the Atmosphere; with a Chronology and Assessment of Its Meteorological Significance." *Philosophical Transactions of the Royal Society of London* **A266**: 425-533.
- Lamb, Hubert H., and Alastair Woodroffe (1970). "Atmospheric Circulation During the Last Ice Age." *Quaternary Research* **1**: 29-58.
- Lamb, Hubert H. (1971). "Climate-Engineering Schemes to Meet a Climatic Emergency." *Earth-Science Reviews* **7**: 87-95.
- Lamb, Hubert H. (1972-77). *Climate: Present, Past and Future*. London: Methuen.
- Lamb, Hubert H. (1977). *Climatic History and the Future*. Princeton, NJ: Princeton University Press.
- Lamb, Hubert H. (1995). *Climate, History and the Modern World*. London: Routledge.
- Lamb, Hubert H. (1997). *Through All the Changing Scenes of Life: A Meteorologist's Tale*. Norfolk, UK: Taverner.
- Lambright, W. Henry, and Stanley A. Changnon, Jr. (1989). "Arresting Technology: Government, Scientists, and Weather Modification." *Science, Technology and Human Values* **14**: 340-59.
- Lancaster, Justin (1994). "Revelle on Global Warming." *Science* **265**: 302.
- Lanchbery, John, and David Victor (1995). "The Role of Science in the Global Climate Negotiations." In *Green Globe Yearbook of International Cooperation on Environment and Development 1995*, edited by Helge Bergesen and Georg Parmann, pp. 29-39. Oxford: Oxford University Press.
- Landsberg, Helmut E. (1941, rev. ed. 1947, 1960). *Physical Climatology*. State College, PA:

Pennsylvania State College.

- Landsberg, Helmut E. (1946). "Climate as a Natural Resource." *Scientific Monthly*, Oct., pp. 293-98.
- Landsberg, Helmut E. (1955). "The Climate of Towns." In *Man's Role in Changing the Face of the Earth*, edited by William L. Thomas, Jr. Chicago: University of Chicago Press.
- Landsberg, Helmut E. (1958). "Trends in Climatology." *Science* **128**: 749-58.
- Landsberg, Helmut E. (1960). "Notes on the Recent Climatic Fluctuation in the United States." *J. Geophysical Research* **65**: 1519-25.
- Landsberg, Helmut E. (1967). "Two Centuries of New England Climate." *Weatherwise*, April, pp. 52-57.
- Landsberg, Helmut E. (1970). "Man-Made Climatic Changes." *Science* **170**: 1265-74.
- Landsea, Christopher W., et al. (2006). "Can We Detect Trends in Extreme Tropical Cyclones?" *Science* **313**: 452-54 [doi:10.1126/science/1128448].
- Langley, S.P. (1884). "Researches on Solar Heat and Its Absorption by the Earth's Atmosphere: A Report of the Mount Whitney Expedition." *Professional Papers of the Signal Service* **15**: 1-242.
- Langley, S.P. (1886). "Observations on Invisible Heat-Spectra and the Recognition of Hitherto Ummeasured Wave-Lengths, Made at the Alleghany Observatory." *Philosophical Magazine* **31**: 394-409.
- Langway, C.C., Jr., et al. (1985). "The Greenland Ice Sheet Program in Perspective." In *Greenland Ice Core: Geophysics, Geochemistry and the Environment (Geophysical Monograph 33)*, edited by C.C. Langway, Jr. et al., pp. 1-8. Washington, DC: American Geophysical Union.
- Laudan, Larry (1977). *Progress and Its Problems. Towards a Theory of Scientific Growth*. Berkeley: University of California Press.
- Laurmann, J.A. (1976). "Climate Research." *Science* **191**: 1002-1005.
- Lawler, Andrew (1998). "Global Change Fights Off a Chill." *Science* **280**: 1682.
- Lawrence, David M., and Andrew G. Slater (2005). "A Projection of Severe near-Surface Permafrost Degradation During the 21st Century." *Geophysical Research Letters* **32**: L22401 [doi: 10.1029/2005GL025080].
- Lawrence, Mark G., and Paul J. Crutzen (1999). "Influence of NO_x Emissions from Ships on Tropospheric Photochemistry and Climate." *Nature* **402**: 167-70.
- Lazier, J.R.N. (1995). "The Salinity Decrease in the Labrador Sea over the Past Thirty Years." In *Natural Climate Variability on Decade-to-Century Time Scales*, edited by Martinson, Douglas G., et al., pp. 295-302. Washington, DC: National Academy Press.
- Le Roy Ladurie, Emmanuel (1967). *Histoire Du Climat Depuis L'an Mil*. Paris: Flammarion.
- Ledley, Tamara S., et al. (1999). "Climate Change and Greenhouse Gases." *Eos, Transactions of the American Geophysical Union* **80**(39): 454-58.
- Lee, Kynug E., and Niall C. Slowey (1999). "Cool Surface Waters of the Subtropical North Pacific Ocean During the Last Interglacial." *Nature* **397**: 512-14.
- Lee, R. (1973). "The 'Greenhouse' Effect." *J. Applied Meteorology* **12**: 556-57.
- Lee, R. (1974). "Reply to Berry." *J. Applied Meteorology* **13**: 605-06.
- Lee, R.B., III, et al. (1995). "Long-Term Solar Irradiance Variability During Sunspot Cycle 22."

- J. Geophysical Research* **100**(A2): 1667-75.
- Leggett, Jeremy (1999). *The Carbon War: Dispatches from the End of the Oil Century*. London: Allen Lane - Penguin.
- Lehman, Scott J., and Lloyd D. Keigwin (1992). "Sudden Changes in North Atlantic Circulation During the Last Deglaciation." *Nature* **356**: 757-62.
- Leiserowitz, Anthony (2004). "Day after Tomorrow: Study of Climate Change Risk Perception." *Environment* **46**, no. 9 (Nov.), pp. 22-44.
- Leiserowitz, Anthony (2005). "American Risk Perceptions: Is Climate Change Dangerous?" *Risk Analysis* **25**: 1433-1442.
- Leiserowitz, Anthony (2006). "Climate Change, Risk Perception and Policy Preferences: The Role of Affect, Imagery and Values." *Climatic Change* **77**: 45-72 [doi:10.1007/s10584-006-9059-9].
- Lemke, P., et al. (2007). "Observations: Changes in Snow, Ice and Frozen Ground." 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. 338-83. (online at <http://www.ipcc.ch/>).
- Leovy, C.B., et al. (1973). "Mechanisms for Mars Dust Storms." *J. Atmospheric Sciences* **30**: 749-62.
- Levenson, Thomas (1989). *Ice Time: Climate, Science, and Life on Earth*. New York: Harper & Row.
- Levitus, Sydney, et al. (2000). "Warming of the World Ocean." *Science* **287**: 2225-29.
- Levitus, Sydney, et al. (2001). "Anthropogenic Warming of Earth's Climate System." *Science* **292**: 267-70.
- Levitus, Sydney, et al. (2005). "Warming of the World Ocean, 1955–2003." *Geophysical Research Letters* **32**: L02604-22 [doi: 10.1029/2004GL021592].
- Lewis, J.M. (1993). "Meteorologists from the University of Tokyo: Their Exodus to the United States Following World War II." *Bulletin of the American Meteorological Society* **74**: 1351-60.
- Lewis, John M. (2000). "Clarifying the Dynamics of the General Circulation. Phillips's 1956 Experiment." In *General Circulation Model Development*, edited by David A. Randall, pp. 91-125. San Diego, CA: Academic Press.
- Li, Zhanqing, et al. (1995). "The Variable Effect of Clouds on Atmospheric Absorption of Solar Radiation." *Nature* **376**: 486-90.
- Li, Zhanqing, Thomas P. Ackerman, Warren Wiscombe, et al. (2003). "Have Clouds Darkened since 1995?" (Letter). *Science* **302**: 1151-52.
- Lian, M.S., and R.D. Cess (1977). "Energy Balance Climate Models: A Reappraisal of Ice-Albedo Feedback." *J. Atmospheric Sciences* **38**: 1058-62.
- Libby, Willard F. (1946). "Atmospheric Helium Three and Radiocarbon from Cosmic Radiation." *Physical Review* **69**: 671-72.
- Libby, Willard F. (1951). *Radiocarbon Dating*. Chicago: Chicago University Press.
- Libby, Willard F. (1955). *Radiocarbon Dating*. Chicago: Chicago University Press.
- Libby, Willard F. (1963). "Accuracy of Radiocarbon Dates." *Science* **140**: 278-80.
- Libby, Willard F. (1967). "History of Radiocarbon Dating." In *Radioactive Dating and Methods*

- of Low-Level Counting. Proceedings of a Symposium, Monaco, 1967* pp. 3-25. Vienna: International Atomic Energy Agency.
- Lichter, Robert (1992). "A Study of National Media Coverage of Global Climate Change 1985-1991". Washington, DC, Center for Science, Technology & Media
- Lilly, Douglas K. (1997). "Introduction [to Reprint of Arakawa (1966)], 'Computational Design for Long-Term Numerical Integration...'" *J. Computational Physics* **135**: 101-102.
- Linden, Eugene (2006). "Climate Shock." *Fortune* **153**, no. 1 (January 23), pp. 134-45.
- Lindsay, Ron W., and J. Zhang (2005). "The Thinning of Arctic Sea Ice, 1988-2003: Have We Passed a Tipping Point?" *Journal of Climate* **18**: 4879-94 [doi: 10.1175/JCLI3587.1].
- Lindzen, Richard S. (1990). "Some Coolness Concerning Global Warming." *Bulletin of the American Meteorological Society* **71**: 288-99.
- Lindzen, Richard S., et al. (2001). "Does the Earth Have an Adaptive Infrared Iris?" *Bulletin of the American Meteorological Society* **82**: 417-32.
- Lingenfelter, R.E. (1963). "Production of Carbon-14 by Cosmic-Ray Neutrons." *Reviews of Geophysics and Space Physics* **1**: 35-55.
- Lockwood, John G. (1979). *Causes of Climate*. New York: John Wiley.
- Lockwood, M., et al. (1999). "A Doubling of the Sun's Coronal Magnetic Field During the Past 100 Years." *Nature* **399**: 437-39.
- London, J. (1957). *A Study of Atmospheric Heat Balance*, New York, College of Engineering, New York University 99 pp.
- Long, Marybeth, and Alastair Iles (1997). *Assessing Climate Change Impacts: Co-Evolution of Knowledge, Communities and Methodologies*. ENRP Discussion Paper E-97-09, Kennedy School of Government, Harvard University. Online at http://bcsia.ksg.harvard.edu/publication.cfm?program=CORE&ctype=paper&item_id=194
- Lorenz, Edward N. (1960). "Energy and Numerical Weather Prediction." *Tellus* **12**: 364-73.
- Lorenz, Edward N. (1963). "Deterministic Nonperiodic Flow." *J. Atmospheric Sciences* **20**: 130-41.
- Lorenz, Edward N. (1964). "The Problem of Deducing the Climate from the Governing Equations." *Tellus* **16**: 1-11.
- Lorenz, Edward N. (1965). "A Study of the Predictability of 28-Variable Atmospheric Model." *Tellus* **17**: 321-333.
- Lorenz, Edward N. (1967). *The Nature and Theory of the General Circulation of the Atmosphere*. Geneva: World Meteorological Organization.
- Lorenz, Edward N. (1968). "Climatic Determinism (1965 Boulder Address, Also in Mitchell, Ed., *Causes of Climate*.)" *Meteorological Monographs* **8**: 1-3.
- Lorenz, Edward N. (1970). "Climate Change as a Mathematical Problem." *J. Applied Meteorology* **9**: 325-29.
- Lorenz, Edward N. (1993). *The Essence of Chaos*. Seattle: University of Washington Press.
- Lorius, Claude, et al. (1985). "A 150,000-Year Climatic Record from Antarctic Ice." *Nature* **316**: 591-96.
- Lorius, Claude, et al. (1990). "The Ice Core Record: Climate Sensitivity and Future Greenhouse Warming." *Nature* **347**: 139-45.

- Lotka, Alfred J. (1924). *Elements of Physical Biology*. Baltimore: Williams & Wilkins (reprinted as *Elements of Mathematical Biology*, NY, Dover, 1956).
- Lovelock, James E., et al. (1972). "Atmospheric Dimethyl Sulphide and the Natural Sulphur Cycle." *Nature* **237**: 452-53.
- Lovelock, James E., et al. (1973). "Halogenated Hydrocarbons in and over the Atlantic." *Nature* **241**: 194-96.
- Lovelock, James E. (1974). "Atmospheric Halocarbons and Stratospheric Ozone." *Nature* **252**: 292-94.
- Lovelock, James E., and Lynn Margulis (1974). "Atmospheric Homeostasis by and for the Biosphere: The Gaia Hypothesis." *Tellus* **26**: 2-9.
- Lovelock, James (1991). "Reflections on Gaia." In *Scientists on Gaia*, edited by Schneider, Stephen H., and Penelope J. Boston, pp. 1-5. Boston: MIT Press.
- Lovelock, James E. (1999). "The View from Outside." In *Atmospheric Chemistry and Global Change*, edited by Guy P. Brasseur et al., pp. 204-205. New York: Oxford University Press.
- Lovelock, James E. (2000). *Homage to Gaia. The Life of an Independent Scientist*. Oxford: Oxford University Press.
- Lowell, Thomas V., et al. (2005). "Testing the Lake Agassiz Meltwater Trigger for the Younger Dryas." *Eos, Transactions of the American Geophysical Union* **40**: 365, 372.
- Luckman, Adrian, et al. (2006). "Rapid and Synchronous Ice-Dynamic Changes in East Greenland." *Geophysical Research Letters* **33**: L03503 [doi: 10.1029/2005GL025428].
- Ludwig, Kenneth R., et al. (1992). "Mass-Spectrometric ²³⁰Th-²³⁴U-²³⁸U Dating of the Devils Hole Calcite Vein." *Science* **258**: 284-87.
- Lund, David C., et al. (2006). "Gulf Stream Density Structure and Transport During the Past Millennium." *Nature* **444**: 601-604 [doi:10.1038/nature05277].
- Luthcke, S.B., et al. (2006). "Recent Greenland Ice Mass Loss by Drainage System from Satellite Gravity Observations." *Science* **314**: 1286-89.
- Lyman, John M., et al. (2006). "Recent Cooling of the Upper Ocean." *Geophysical Research Letters* **33**: L18604 [doi:10.1029/2006GL027033].
- Lynas, Mark (2007). *Six Degrees: Our Future on a Hotter Planet*. London: Fourth Estate (HarperCollins UK).
- Lynch, Peter (2006). *The Emergence of Numerical Weather Prediction: Richardson's Dream*. Cambridge: Cambridge University Press.
- Lynch-Stieglitz, Jean (2004). "Hemispheric Asynchrony of Abrupt Climate Change." *Science* **304**: 1919-20.
- Lysgaard, Leo (1950). "On the Present Climatic Variation." In *Royal Meteorological Society Centenary Proceedings* pp. 206-11. London: Royal Meteorological Society.
- MacAyeal, D.R. (1993). "Binge/Purge Oscillations of the Laurentide Ice Sheet as a Cause of North Atlantic's Heinrich Events." *Paleoceanography* **8**: 775-84.
- MacCracken, M.C., and F.M. Luther (1985a). "Detecting the Climatic Effects of Increasing Carbon Dioxide". Washington, DC, Department of Energy. Report DOE/ER-0235
- MacCracken, M.C., and F.M. Luther (1985b). "Projecting the Climatic Effects of Increasing Carbon Dioxide". Washington, DC, Department of Energy. Report DOE/ER-0237

- Machta, Lester, T. Carpenter (1971). "Trends in High Cloudiness at Denver and Salt Lake City." In *Man's Impact on the Climate [Study of Critical Environmental Problems (SCEP) Report]*, edited by William H. Matthews, William W. Kellogg and G. D. Robinson, 410-15. Cambridge, MA: MIT Press.
- Machta, Lester (1973). "Prediction of CO₂ in the Atmosphere." In *Carbon and the Biosphere*, edited by George M. Woodwell and Erene V. Pecan. Washington, DC: Atomic Energy Commission (National Technical Information Service, CONF-7502510).
- Madden, Roland A., and V. Ramanathan (1980). "Detecting Climate Change Due to Increasing Carbon Dioxide." *Science* **209**: 763-68.
- Maddox, John (1983). "Great Greenhouse in the Sky?" *Nature* **306**: 221.
- Maher, Neil (2005). "Neil Maher on Shooting the Moon." *Environmental History* **9** (online at <http://www.historycooperative.org/journals/eh/9.3/maher.html>).
- Mahlman, J.D. (1998). "Science and Nonscience Concerning Human-Caused Climate Warming." *Annual Review of Energy and the Environment* **23**: 83-106.
- Manabe, Syukuro, and Robert F. Strickler (1964). "Thermal Equilibrium of the Atmosphere with Convective Adjustment." *J. Atmospheric Sciences* **21**: 361-85.
- Manabe, Syukuro, et al. (1965). "Simulated Climatology of General Circulation with a Hydrologic Cycle." *Monthly Weather Review* **93**: 769-98.
- Manabe, Syukuro, and Richard T. Wetherald (1967). "Thermal Equilibrium of the Atmosphere with a Given Distribution of Relative Humidity." *J. Atmospheric Sciences* **24**: 241-59.
- Manabe, Syukuro (1969). "Climate and the Ocean Circulation. I. The Atmospheric Circulation and the Hydrology of the Earth's Surface. II. The Atmospheric Circulation and the Effect of Heat Transfer by Ocean Currents." *Monthly Weather Review* **97**: 739-74, 775-805.
- Manabe, Syukuro, and Kirk Bryan (1969). "Climate Calculations with a Combined Ocean-Atmosphere Model." *J. Atmospheric Sciences* **26**: 786-89.
- Manabe, Syukuro, et al. (1974). "The Seasonal Variation of the Tropical Circulation as Simulated by a Global Model of the Atmosphere." *J. Atmospheric Sciences* **31**: 43-83.
- Manabe, Syukuro, et al. (1975). "A Global Ocean-Atmosphere Climate Model: Part I. The Atmospheric Circulation." *J. Physical Oceanography* **5**: 3-29.
- Manabe, Syukuro, and Richard T. Wetherald (1975). "The Effects of Doubling the CO₂ Concentration on the Climate of a General Circulation Model." *J. Atmospheric Sciences* **32**: 3-15.
- Manabe, Syukuro, and Douglas F. Hahn (1977). "Simulation of the Tropical Climate of an Ice Age." *J. Geophysical Research* **82**: 3889-3911.
- Manabe, Syukuro, et al. (1979). "A Global Ocean-Atmosphere Climate Model with Seasonal Variation for Future Studies of Climate Sensitivity." *Dynamics of Atmospheres and Oceans* **3**: 393-426.
- Manabe, Syukuro, and R.J. Stouffer (1980). "Sensitivity of a Global Climate Model to an Increase of CO₂ Concentration in the Atmosphere." *J. Geophysical Research* **85**: 5529-54.
- Manabe, Syukuro, and Richard T. Wetherald (1980). "On the Distribution of Climate Change Resulting from an Increase in CO₂ Content of the Atmosphere." *J. Atmospheric Sciences* **37**: 99-118.

- Manabe, Syukuro, and A.J. Broccoli (1985). "A Comparison of Climate Model Sensitivity with the Data from the Last Glacial Maximum." *J. Atmospheric Sciences* **42**: 2643-51.
- Manabe, Syukuro, and R.J. Stouffer (1988). "Two Stable Equilibria of a Coupled Ocean-Atmosphere Model." *J. Climate* **1**: 841-66.
- Manabe, Syukuro, and R.J. Stouffer (1993). "Century-Scale Effects of Increased Atmospheric CO₂ on the Ocean-Atmosphere System." *Nature* **364**: 215-18.
- Manabe, Syukuro (1997). "Early Developments in the Study of Greenhouse Warming: The Emergence of Climate Models." *Ambio* **26**: 47-51.
- Mann, Michael E., et al. (1999). "Northern Hemisphere Temperatures During the Past Millennium: Inferences, Uncertainties, and Limitations." *Geophysical Research Letters* **26**: 759-62.
- Mann, Michael E., Caspar Amman, Ray Bradley, et al. (2003). "On Past Temperatures and Anomalous Late-20th Century Warmth." *Eos, Transactions of the American Geophysical Union* **84**, no. 27: 256-57.
- Mann, Michael E., Philip D. Jones (2003). "Global Surface Temperatures over the Past Two Millennia." *Geophysical Research Letters* **30**: 1820-24.
- Mann, Michael E., Raymond S. Bradley, Malcolm K. Hughes (2004). "Corrigendum: Global-Scale Temperature Patterns and Climate Forcing over the Past Six Centuries." *Nature* **430**: 105.
- Mann, Michael E., et al. (2005). "Testing the Fidelity of Methods Used in Proxy-Based Reconstructions of Past Climate." *Journal of Climate* **18**: 4097-4107.
- Mann, Michael E., et al. (2006). "Past Millennia Climate Variability." *Eos, Transactions of the American Geophysical Union* **87**: 526-27.
- Mantn, A.A. (1966). "Half a Century of Modern Palynology." *Earth-Science Reviews* **2**: 277-316.
- Marchetti, Cesare (1977). "On Geoengineering and the CO₂ Problem." *Climatic Change* **1**: 59-68.
- Marsh, Nigel D., and Henrik Svensmark (2000). "Low Cloud Properties Influenced by Cosmic Rays." *Physical Review Letters* **85**: 5004-07.
- Martin, John H., S.E. Fitzwater (1988). "Iron Deficiency Limits Phytoplankton Growth in the North-East Pacific Subarctic." *Nature* **331**: 341-43.
- Martin, John H. (1990). "Glacial-Interglacial CO₂ Change: The Iron Hypothesis." *Paleoceanography* **5**: 1-13.
- Martin, P.E., and E.F. Baker (1932). "The Infrared Absorption Spectrum of Carbon Dioxide." *Physical Review* **41**: 291-303.
- Martinson, Douglas G., et al. (1987). "Age Dating and the Orbital Theory of the Ice Ages: Development of a High-Resolution 0 to 300,000-Year Chronostratigraphy." *Quaternary Research* **27**: 1-29 [doi: 10.1016/0033-5894(87)90046-9].
- Mason, B.J. (1977). "Has the Weather Gone Mad?" *The New Republic*, 30 July, pp. 21-23.
- Mason, J. (1957). "Meteorology." In *The Earth and Its Atmosphere*, edited by D.R. Bates, pp. 174-203. New York: Basic Books.
- Masood, E. (1996). "Climate Report 'Subject to Scientific Cleansing'." *Nature* **381**: 546.
- Matthews, A.M. (1959). "The Earth's Carbon Cycle." *New Scientist*, 8 Oct., pp. 644-46.

- Matthews, Samuel W. (1977). "What's Happening to Our Climate?" *Readers' Digest*, March, pp. 88-92.
- Matthews, William H., et al., Eds. (1971). *Man's Impact on the Climate [Study of Critical Environmental Problems (SCEP) Report]*. Cambridge, MA: MIT Press.
- Maunder, E. Walter (1890). "Professor Spoerer's Researches on Sun-Spots." *Monthly Notices of the Royal Astronomical Society* **50**: 251-52.
- Mayer, Cornell H. (1961). "Radio Emission of the Moon and Planets." In *Planets and Satellites*, edited by Gerald P. Kuiper and Barbara M. Middlehurst, The Solar System, Vol. **3**, pp. 442-72. Chicago: University of Chicago Press.
- Mayer, Cornell H. (1983). "Early Observations of Thermal Planetary Radio Emission." In *Serendipitous Discoveries in Radio Astronomy. Proceedings of a Workshop Held at the National Radio Astronomy Observatory... Workshop No. 7*, edited by K. Kellermann and B. Sheets, pp. 266-74. Green Bank, WV: National Radio Astronomy Observatory.
- Mayewski, Paul A., and Frank White (2002). *The Ice Chronicles: The Quest to Understand Global Climate Change*. Hanover, NH: University Press of New England.
- Mayewski, Paul A., et al. (1993). "The Atmosphere During the Younger Dryas." *Science* **261**: 195-97.
- McCormac, Billy M., and Thomas A. Seliga (1979). "Symposium/Workshop Conclusions." In *Solar-Terrestrial Influences on Weather and Climate*, edited by Billy M. McCormac and Thomas A. Seliga, pp. 1-24. Dordrecht: Reidel.
- McCormack, J.P., et al. (1997). "Approximate Separation of Volcanic and 11-Year Signals in the SBUV-SBUV/2 Total Ozone Record over the 1979-1995 Period." *Geophysical Research Letters* **24**: 2729-32.
- McCormick, Robert A., and John H. Ludwig (1967). "Climate Modification by Atmospheric Aerosols." *Science* **156**: 1358-59.
- McElroy, M.B. (1983). "Marine Biological Controls on Atmospheric CO₂ and Climate." *Nature* **302**: 328-29.
- McElwain, Jennifer C., and William G. Chaloner (1995). "Stomatal Density and Index of Fossil Plants Track Atmospheric Carbon Dioxide in the Paleozoic." *Annals of Botany* **76**: 389-95.
- McGourty, Christine (1988). "Global Warming Becomes an International Political Issue." *Nature* **336**: 194.
- McGuffie, Kendal, and A. Henderson-Sellers (1997). *A Climate Modelling Primer*. Chichester, England: Wiley.
- McIntyre, D.P., Ed. (1972). *Meteorological Challenges: A History*. Ottawa: Information Canada.
- McIntyre, Stephen, and Ross McKittrick (2005). "Hockey Sticks, Principal Components and Spurious Significance." *Geophysical Research Letters* **32**: L03710 [doi:10.1029/2004GL021750].
- McKibben, Bill (1989). *The End of Nature*. New York: Random House.
- McKibben, Bill (2006). "The Present Future: Paintings for a Very Hot Planet." *Orion*: <http://www.orionmagazine.org/pages/om/06-1om/McKibbenRockman.html> retrieved 12/19/06.
- McLean, D.M. (1981). "A Test of Terminal Mesozoic 'Catastrophe'." *Earth and Planetary*

- Science Letters* **53**: 103-08.
- McLean, D.M. (1985). "Deccan Trap Mantle Degassing in the Terminal Cretaceous Marine Extinctions." *Cretaceous Research* **6**: 235-59.
- McManus, Jerry F., et al. (1999). "A 0.5-Million-Year Record of Millennial-Scale Climate Variability in the North Atlantic." *Science* **283**: 971-75.
- McNeill, J.R. (2000). *Something New under the Sun: An Environmental History of the Twentieth-Century World*. New York: W.W. Norton.
- McNutt, Marcia K. (2000). "Achievements in Marine Geology and Geophysics." In *Fifty Years of Ocean Discovery. National Science Foundation 1950-2000*, edited by Ocean Studies Board National Research Council, pp. 51-64. Washington, DC: National Academy Press.
- McPhee, John (1998). *Annals of the Former World*. New York: Farrar, Straus and Giroux.
- McWilliams, Bryon (2004). "Crunch Time for Kyoto." *Nature* **431**: 12-13
- McWilliams, James C. (1996). "Modeling the Oceanic General Circulation." *Annual Review of Fluid Mechanics* **28**: 215-49.
- Meadows, Donella H., et al. (1972). *The Limits to Growth: A Report for the Club of Rome's Project on the Predicament of Mankind*. New York: Universe Books.
- Mearns, Linda O., et al. (1984). "Extreme High Temperature Events: Changes in Their Probabilities with Changes in Mean Temperature." *J. Climate and Applied Meteorology* **23**: 1601-13.
- Mears, Carl A., and Frank J. Wentz (2005). "The Effect of Diurnal Correction on Satellite-Derived Lower Tropospheric Temperature." *Science* **309**: 1548-51 [doi: 10.1126/science.1114772].
- Meehl, Gerald A. (1990). "Development of Global Coupled Ocean-Atmosphere General Circulation Models." *Climate Dynamics* **5**: 19-33.
- Meehl, Gerald A. (1992). "Global Coupled Models: Atmosphere, Ocean, Sea Ice." In *Climate System Modeling*, edited by Kevin E. Trenberth, pp. 555-581. Cambridge: Cambridge University Press.
- Meehl, Gerald A., et al. (2005). "How Much More Global Warming and Sea Level Rise?" *Science* **307**: 1769-72.
- Meehl, Gerald A., et al. (2007). "Global Climate Projections." 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. 747-846. Cambridge and New York: Cambridge University Press. Online at <http://www.ipcc.ch/>.
- Meier, M.F., et al. (1985). *Glaciers, Ice Sheets, and Sea Level*. Washington, DC: National Academy of Sciences.
- Meier, Mark F., et al. (2005). "Reductions in Arctic Sea Ice Cover No Longer Limited to Summer." *Eos, Transactions of the American Geophysical Union* **86**: 326.
- Melillo, J. (1999). "Warm, Warm on the Range." *Science* **283**: 183-84.
- Menzel, Annette, and Peter Fabian (1999). "Growing Season Extended in Europe." *Nature* **397**: 659.
- Menzel, Donald H. (1949). *Our Sun*. Philadelphia: Blakiston.
- Mercer, J.H. (1968). "Antarctic Ice and Sangamon Sea Level." In *International Association of Scientific Hydrology, Commission of Snow and Ice, General Assembly of Bern, Publ. No.*

- 79 pp. 217-25. Bern.
- Mercer, J.H. (1969). "The Allerød Oscillation: A European Climatic Anomaly?" *Arctic and Alpine Research* **1**: 227-34.
- Mercer, J.H., and C. Emiliani (1970). "Antarctic Ice and Interglacial High Sea Levels (Exchange of Letters)." *Science* **168**: 1605-06.
- Mercer, J.H. (1978). "West Antarctic Ice Sheet and CO₂ Greenhouse Effect: A Threat of Disaster." *Nature* **271**: 321-25.
- Merryfield, Bill (2005). "Ocean Mixing in 10 Steps." *Science* **308**: 641-42 [doi: 10.1126/science.1111417].
- Meskhidze, Nicholas, and Athanasios Nenes (2006). "Phytoplankton and Cloudiness in the Southern Ocean." *Science* **314**: 1419-23 [doi:10.1126/science.1131779].
- Mesolella, K.J., et al. (1969). "The Astronomical Theory of Climate Change: Barbados Data." *J. Geology* **77**: 250-74.
- Metropolis, N. (1992). "The Age of Computing: A Personal Memoir." *Daedalus*, Winter, pp. 119-30.
- Meyer, Ryan M. (2006). "Intractable Debate: Why Congressional Hearings on Climate Fail to Advance Policy." *Perspectives in Public Affairs* **3**: 85-99.
- Michaels, Patrick M., and Robert C. Balling, Jr. (2000). *The Satanic Gases: Clearing the Air About Global Warming*. Washington, DC: Cato Institute.
- Migeotte, M.V. (1948). "Spectroscopic Evidence of Methane in the Earth's Atmosphere." *Physical Review* **73**: 519-20.
- Milankovitch, Milutin (1920). *Théorie Mathématique des Phénomènes Thermiques Produits par la Radiation Solaire*. Paris: Gauthier-Villars.
- Milankovitch, Milutin (1930). "Mathematische Klimalehre und Astronomische Theorie der Kilimaschwankungen." In *Handbuch der Klimatologie*, edited by W. Köppen and R. Geiger, Vol. **1**, Pt. **A**, pp. 1-176. Berlin: Borntraeger.
- Milankovitch, Milutin (1941). *Canon of Insolation and the Ice Age Problem*. Belgrade: Koniglich Serbische Akademie.
- Miles, Edward (1981). "COSPAR and SCOR: The Political Influence of the Committee on Space Research and the Scientific Committee on Ocean Research." In *Knowledge and Power in a Global Society*, edited by William M. Evan, pp. 133-52. Beverly Hills, CA: Sage.
- Miller, Clark A. (2001). "Scientific Internationalism in American Foreign Policy: The Case of Meteorology, 1947-1958." In *Changing the Atmosphere. Expert Knowledge and Environmental Governance*, edited by Clark A. Miller and Paul N. Edwards, pp. 167-217. Cambridge, MA: MIT Press.
- Miller, Clark A., and Paul N. Edwards, Eds. (2001). *Changing the Atmosphere. Expert Knowledge and Environmental Governance*. Cambridge, MA: MIT Press.
- Mills, Eric L. (1998). "Oceanography, Physical: Disciplinary History." In *Sciences of the Earth. An Encyclopedia of Events, People, and Phenomena*, edited by Gregory A. Good, Vol. **2**, pp. 630-36. New York: Garland.
- Mintz, Yale (1965). "Very Long-Term Global Integration of the Primitive Equations of Atmospheric Motion." In *WMO-IUGG Symposium on Research and Development Aspects of Long-Range Forecasting, Boulder, Colo., 1964. (WMO Technical Note No.*

- 66), edited by World Meteorological Organization, [also published in American Meteorological Society Monographs 8 (1968): 20-36], pp. 141-55. Geneva: World Meteorological Organization.
- Mintz, Yale, et al. (1972). "Numerical Simulation of the Seasonally and Inter-Annually Varying Tropospheric Circulation." In *Climatic Impact Assessment Program. Proceedings*, edited by A. E. Barrington, pp. 194-216. Cambridge, MA: U.S. Dept. of Transportation.
- Mintzer, Irving, and J. Amber Leonard, Eds. (1994). *Negotiating Climate Change: The inside Story of the Rio Convention*. Cambridge: Cambridge University Press.
- Mitchell, J. Murray, Jr. (1953). "On the Causes of Instrumentally Observed Secular Temperature Trends." *J. Meteorology* **10**: 244-61.
- Mitchell, J. Murray, Jr. (1961). "Recent Secular Changes of Global Temperature." *Annals of the New York Academy of Sciences* **95**: 235-50.
- Mitchell, J. Murray, Jr. (1963). "On the World-Wide Pattern of Secular Temperature Change." In *Changes of Climate. Proceedings of the Rome Symposium Organized by UNESCO and the World Meteorological Organization, 1961 (UNESCO Arid Zone Research Series, 20)* pp. 161-81. Paris: UNESCO.
- Mitchell, J. Murray, Jr. (1968). "Causes of Climatic Change. (*Proceedings, VII Congress, International Union for Quaternary Research, Vol. 5, 1965*)." *Meteorological Monographs* **8**(30).
- Mitchell, J. Murray, Jr. (1970). "A Preliminary Evaluation of Atmospheric Pollution as a Cause of the Global Temperature Fluctuation of the Past Century." In *Global Effects of Environmental Pollution*, edited by S. Fred Singer, pp. 139-55. New York: Springer-Verlag.
- Mitchell, J. Murray, Jr. (1971). "The Effect of Atmospheric Aerosols on Climate with Special Reference to Temperature near the Earth's Surface." *J. Applied Meteorology* **10**: 703-14.
- Mitchell, J. Murray, Jr. (1971). "The Problem of Climatic Change and Its Causes." In *Man's Impact on the Climate [Study of Critical Environmental Problems (SCEP) Report]*, edited by William H. Matthews, et al., pp. 133-40. Cambridge, MA: MIT Press.
- Mitchell, J. Murray, Jr. (1972). "The Natural Breakdown of the Present Interglacial and Its Possible Intervention by Human Activities." *Quaternary Research* **2**: 436-45.
- Mitchell, J. Murray, Jr. (1973). "A Reassessment of Atmospheric Pollution as a Cause of Long-Term Changes of Global Temperature." In *Global Effects of Environmental Pollution*, edited by S. Fred Singer. Dordrecht: Reidel.
- Mitchell, J. Murray, Jr. (1976). "An Overview of Climatic Variability and Its Causal Mechanisms." *Quaternary Research* **6**: 481-94.
- Mitchell, J. Murray, Jr., et al. (1979). "Evidence of a 22-Year Rhythm of Drought in the Western United States Related to the Hale Solar Cycle since the 17th Century." In *Solar-Terrestrial Influences on Weather and Climate*, edited by Billy M. McCormac and Thomas A. Seliga, pp. 125-47. Dordrecht: Reidel.
- Mitchell, J. Murray, Jr. (1991). "(Memoir of Landsberg)." In *Climate in Human Perspective. A Tribute to Helmut F. Landsberg*, edited by F. Baer et al. Dordrecht: Kluwer Academic.
- Mitchell, J.F.B., et al. (1987). "On CO₂ Climate Sensitivity and Model Dependence of Results." *Quarterly J. Royal Meteorological Society* **113**: 115-39.

- Mitchell, J.F.B., et al. (1995). "Climate Response to Increasing Levels of Greenhouse Gases and Sulphate Aerosols." *Nature* **376**: 501-504.
- Miyazawa, Kenzi (1932). "Gusukô Budori No Denki [Gusukô Budori, a Biography]." In *Kaze No Matasaburô [Matasaburô the Wind Imp]*, Tokyo: Iwanami Syoten.
- Moberg, Anders, et al. (2005). "Highly Variable Northern Hemisphere Temperatures Reconstructed from Low- and High-Resolution Proxy Data." *Nature* **433**: 613-17.
- Mock, S.J., and III W.D. Hibler (1976). "The 20-Year Oscillation in Eastern North American Temperature Records." *Nature* **261**: 484-86.
- Molina, Mario J., and F.S. Rowland (1974). "Stratospheric Sink for Chlorofluoromethanes: Chlorine Atom-Catalysed Destruction of Ozone." *Nature* **249**: 810-12.
- Möller, Fritz (1935). "Die Warmquellen in der Freien Atmosphäre." *Meteorologische Zeitschrift* **52 L**: 408-412.
- Möller, Fritz (1951). "Long-Wave Radiation." In *Compendium of Meteorology*, edited by Thomas F. Malone, pp. 34-49. Boston, MA: American Meteorological Society.
- Möller, Fritz (1957). "Strahlung in der Unteren Atmosphäre." In *Geophysik II (Vol. 48 of Handbuch der Physik)*, edited by J. Bartels, pp. 155-253. Berlin: Springer.
- Möller, Fritz (1963). "On the Influence of Changes in the CO₂ Concentration in Air on the Radiation Balance of the Earth's Surface and on the Climate." *J. Geophysical Research* **68**: 3877-86.
- Monastersky, Richard (2003). "Storm Brews over Global Warming." *Chronicle of Higher Education*, Sept. 5, A16-17.
- Monastersky, Richard (2006). "Climate Science on Trial." *Chronicle of Higher Education* **53**, no. 3 (Sept. 8), pp.
- Monthly Weather Review (F.W.V. and C.A.) (1901). "Knut Angstrom on Atmospheric Absorption." *Monthly Weather Review*: 268.
- Mooney, Chris (2005). *The Republican War on Science*. New York: Basic Books.
- Mooney, Chris (2007). *Storm World: Hurricanes, Politics, and the Battle over Global Warming*. New York: Harcourt.
- Mooney, Harold A., et al. (1987). "Exchange of Materials between Terrestrial Ecosystems and the Atmosphere." *Science* **238**: 926-32.
- Morel, Pierre, and William Bandeen (1973). "The Eole Experiment: Early Results and Current Objectives." *Bulletin of the American Meteorological Society* **54**: 298-306.
- Morgan, M. Granger, and David Keith (1995). "Subjective Judgments by Climate Experts." *Environmental Science & Technology*, October, pp. 468-76.
- Morgan, M. Granger, et al. (2005). "Learning from the U.S. National Assessment of Climate Change Impacts." *Environmental Science and Technology* **39**: 9023-32.A10-A15.
- Morton, Oliver (2007). "Is This What It Takes to Save the World?" *Nature* **447**: 132-36.
- Moss, Richard H., and Stephen H. Schneider (2000). "Uncertainties." In *Guidance Papers on the Cross Cutting Issues of the Third Assessment Report of the IPCC*, edited by Pachauri, R., et al., pp. 33-51. Geneva: Intergovernmental Panel on Climate Change.
- Mudge, Francis (1997). "The Development of the 'Greenhouse' Theory of Global Climate Change in Victorian Times." *Weather*, Jan., pp. 13-17.
- Mukerji, Chandra (1989). *A Fragile Power. Scientists and the State*. Princeton, NJ: Princeton

- University Press.
- Munk, Walter D. (1966). "Abyssal Recipes." *Deep-Sea Research* **13**: 707-30.
- Munk, Walter D. (1975). "Where Do We Go from Here?" In *Numerical Models of World Ocean Circulation*, edited by R.O. Reid et al., pp. 349-50. Washington, DC: National Academy of Sciences.
- Munk, Walter D., and Carl Wunsch (1998). "Abyssal Recipes II: Energetics of Tidal and Wind Mixing." *Deep Sea Research* **45**: 1977-2010 [doi:10.1016/S0967-0637(98)00070-3].
- Munk, Walter D. (2000a). "Achievements in Physical Oceanography." In *Fifty Years of Ocean Discovery. National Science Foundation 1950-2000*, edited by Ocean Studies Board National Research Council, pp. 44-50. Washington, DC: National Academy Press.
- Munk, Walter D. (2000b). "Oceanography before, and after, the Advent of Satellites." In *Satellites, Oceanography and Society*, edited by David Halpern, pp. 1-4. Amsterdam: Elsevier.
- Munk, Walter D. (2003). "Ocean Freshening, Sea Level Rising." *Science* **300**: 2041-43.
- Münnich, K.O. (1957). "Heidelberg Natural Radiocarbon Measurements I." *Science* **126**: 194-99.
- Murphy, J.J. (1876). "The Glacial Climate and the Polar Ice-Cap." *Quarterly J. Geological Society of London* **32**: 400-06.
- Murray, Ross J. (1996). "Explicit Generation of Orthogonal Grids for Ocean Models." *Journal of Computational Physics* **126**: 251-73.
- Namias, Jerome (1963). "Large-Scale Air-Sea Interactions over the North Pacific from Summer 1962 through the Subsequent Winter." *J. Geophysical Research* **68**: 6171-6186.
- NASA (1988). *Earth System Science: A Program for Global Change. Report of the Earth System Sciences Committee*. Washington, DC: National Aeronautics and Space Administration.
- National Academy of Sciences (1986). *Global Change in the Geosphere-Biosphere*. Washington, DC: National Academy of Sciences.
- National Academy of Sciences, Carbon Dioxide Assessment Committee (1983). *Changing Climate*. Washington, DC: National Academy of Sciences.
- National Academy of Sciences, Climate Research Board (1979). *Carbon Dioxide and Climate: A Scientific Assessment (Jule Charney, Chair)*. Washington, DC: National Academy of Sciences.
- National Academy of Sciences, Commission on Geosciences, Environment and Resources (CGER) (2000). *Reconciling Observations of Global Temperature Change*. Washington, DC: National Academy of Sciences (online at <http://www.nap.edu/books/0309068916/html>).
- National Academy of Sciences, Committee on Abrupt Climate Change (2002). *Abrupt Climate Change: Inevitable Surprises*. Washington, DC: National Academy of Sciences (online at <http://books.nap.edu/books/0309074347/html/>).
- National Academy of Sciences, Committee on Atmospheric Sciences Panel on Weather and Climate Modification (1966). *Weather and Climate Modification: Problems and Prospects (2 Vols.)*. Washington, DC: National Academy of Sciences.
- National Academy of Sciences, Committee on Global Change Research (2001). *The Science of Regional and Global Change*. Washington, DC: National Academy of Sciences (online at <http://www.nap.edu/books/0309073278/html/>).

- National Academy of Sciences, Committee on Science, Engineering, and Public Policy (1991). *Policy Implications of Greenhouse Warming*. Washington, DC: National Academy of Sciences (online at <http://books.nap.edu/books/0309044405/html/>).
- National Academy of Sciences, Committee to Study the Long-Term Worldwide Effect of Multiple Nuclear-Weapons Detonations (1975). *Long-Term Worldwide Effect of Multiple Nuclear-Weapons Detonations*. Washington, DC: National Academy of Sciences.
- National Academy of Sciences, Division of Earth Sciences, Committee on Climatology (T.F. Malone, chair) (1957). *First General Report on Climatology to the Chief of the Weather Bureau*. Washington, DC: National Academy of Sciences.
- National Academy of Sciences, Geophysics Research Board (1977). *Energy and Climate: Studies in Geophysics*. Washington, DC: National Academy of Sciences.
- National Assessment Synthesis Team, US Global Change Research Program (2000-2001). *Climate Change Impacts on the United States. The Potential Consequences of Climate Variability and Change* Cambridge and New York: Cambridge University Press. Online at <http://www.usgcrp.gov/usgcrp/Library/nationalassessment/>
- National Defense University (1978). "Climate Change to the Year 2000: A Survey of Expert Opinion". Washington, DC, National Defense University
- National Research Council, Board on Atmospheric Sciences and Climate (2006). *Surface Temperature Reconstructions for the Last 2,000 Years*. Washington, DC: National Academies Press.
- National Research Council, Board on Global Change (1994). *Solar Influences on Global Change*. Washington, DC: National Academy Press (online at <http://books.nap.edu/books/0309051487/html/>).
- National Research Council, CO₂/Climate Review Panel (1982). "Carbon Dioxide and Climate: A Second Assessment." Washington, DC, National Academy of Sciences
- National Research Council, Committee on Effects of Atomic Radiation on Oceanography and Fisheries of the National Academy of Sciences, Study of the Biological Effects of Atomic Radiation (1957). *The Effects of Atomic Radiation on Oceanography and Fisheries*. Washington, DC: National Academy of Sciences-National Research Council Publication 551.
- National Research Council, Marine Board, Committee on Engineering Implications (1987). *Responding to Changes in Sea Level: Engineering Implications*. Washington, DC: National Academy of Sciences (online at <http://books.nap.edu/books/0309037816/html/>).
- National Research Council, Ocean Studies Board (2000). *Fifty Years of Ocean Discovery. National Science Foundation 1950-2000*. Washington, DC: National Academy Press (online at <http://books.nap.edu/books/0309063981/html/>).
- Nature (2000). "Just Deserts." *Nature* **408**: xi.
- Nebeker, Frederik (1989). "The 20th-Century Transformation of Meteorology." PhD Thesis, Princeton University, Princeton, NJ.
- Nebeker, Frederik (1995). *Calculating the Weather: Meteorology in the 20th Century*. New York: Academic Press.
- Neftel, A., et al. (1982). "Ice Core Sample Measurements Give Atmospheric Content During the Past 40,000 Yr." *Nature* **295**: 220-23.

- Negri, Andrew J., Robert F. Adler, Liming Xu, et al. (2004). "The Impact of Amazonian Deforestation on Dry Season Rainfall." *Journal of Climate* **17**: 1306–19.
- Nelkin, Dorothy (1987). *Selling Science: How the Press Covers Science and Technology*. New York: W.H. Freeman.
- Nelson, Bob (1997). "Willson: The Sun May Be Factor in Global Warmup." *Columbia University Record* **23**(5) (online at <http://www.columbia.edu/cu/record/23/05/14.html>.)
- Neumann, J. (1985). "Climatic Change as a Topic in the Classical Greek and Roman Literature." *Climatic Change* **7**: 441-54.
- Newell, Homer (1980). *Beyond the Atmosphere: Early Years of Space Science*. Washington, DC: NASA SP-4211.
- Newell, R.E., and T.G. Dopplick (1979). "Questions Concerning the Possible Influence of Anthropogenic CO₂ on Atmospheric Temperature." *J. Applied Meteorology* **18**: 822-25.
- Newell, Reginald E. (1971). "The Amazon Forest and Atmospheric General Circulation." In *Man's Impact on the Climate [Study of Critical Environmental Problems (SCEP) Report]*, edited by William H. Matthews et al., pp. 457-59. Cambridge, MA: MIT Press.
- Newell, Reginald E. (1974). "Changes in the Poleward Energy Flux by the Atmosphere and Ocean as a Possible Cause for Ice Ages." *Quaternary Research* **4**: 117-127.
- Newsweek (1953). "Notes of the Week." *Newsweek*, 18 May, p. 75.
- Newsweek (1975). "The Cooling World." *Newsweek*, 28 April, p. 64.
- Ney, E.P. (1959). "Cosmic Radiation and the Weather." *Nature* **183**: 451-52.
- NGRIP *see* North Greenland.
- Nghiem, S. V., et al. (2006). "Depletion of Perennial Sea Ice in the East Arctic Ocean." *Geophysical Research Letters* **33**: L17501 [doi:10.1029/2006GL027198].
- Nielsen, Rolf Haugeard (2004). "Not Quite the Day after Tomorrow." *New Scientist*, 11 Sept., pp. 6-7.
- Ninkovich, Dragoslav, and William L. Donn (1976). "Explosive Cenozoic Volcanism and Its Climatic Implications." *Science* **194**: 899-994.
- Nisbet, E. (1990). "Climate Change and Methane." *Nature* **347**: 23.
- Nolin, Jan (1999). "Global Policy and National Research: The International Shaping of Climate Research in Four European Union Countries." *Minerva* **37**: 125-40.
- Norris, Richard D., and Ursula Röhl (1999). "Carbon Cycling and Chronology of Climate Warming During the Palaeocene/Eocene Transition." *Nature* **401**: 775-78.
- North, G.R., and James A. Coakley, Jr. (1979). "Differences between Seasonal and Mean Energy Balance Model Calculations of Climate Sensitivity." *J. Atmospheric Sciences* **36**: 1189-1204.
- North, Gerald R. (1975). "Analytical Solution to a Simple Climate Model with Diffusive Heat Transport." *J. Atmospheric Sciences* **32**: 1301-07.
- North, Gerald R., et al. (1981). "Energy Balance Climate Models." *Reviews of Geophysics and Space Physics* **19**: 91-121.
- North, Gerald R. (1984). "The Small Ice Cap Instability in Diffusive Models." *J. Atmospheric Sciences* **41**: 3390-95.
- North Greenland Ice Core Project members (NGRIP, K.K. Andersen et al.) (2004). "High-Resolution Record of Northern Hemisphere Climate Extending into the Last Interglacial

- Period.” *Nature* **431**: 147-51 [doi:10.1038/nature02805].
- Norton, Stephen D., and Frederick Suppe (2001). “Why Atmospheric Modeling Is Good Science.” In *Changing the Atmosphere. Expert Knowledge and Environmental Governance*, edited by Clark A. Miller and Paul N. Edwards, pp. 67-105. Cambridge, MA: MIT Press.
- Nunes, Flavia, and Richard D. Norris (2006). “Abrupt Reversal in Ocean Overturning During the Palaeocene/Eocene Warm Period.” *Nature* **439**: 60-63 [doi: 10.1038/nature04386].
- Nye, J.F. (1960). “The Response of Glaciers and Ice-Sheets to Seasonal and Climatic Changes.” *Proceedings of the Royal Society of London* **A256**: 559-84.
- Oberthür, Sebastian, and Hermann E. Ott (1999). *The Kyoto Protocol. International Climate Policy for the 21st Century*. Berlin: Springer.
- (Obituary) (1965). “Mr. G.S. Callendar.” *Quarterly J. Royal Meteorological Society* **91**: 112.
- Oerlemans, Johannes (1994). “Quantifying Global Warming from the Retreat of Glaciers.” *Science* **264**: 243-45.
- Oerlemans, Johannes (2005). “Extracting a Climate Signal from 169 Glacier Records.” *Science* **308**: 675-77.
- Oeschger, Hans, et al. (1975). “A Box Diffusion Model to Study the Carbon Dioxide Exchange in Nature.” *Tellus* **27**: 168-92.
- Oeschger, Hans, et al. (1984). “Late Glacial Climate History from Ice Cores.” In *Climate Processes and Climate Sensitivity. (Geophysical Monograph 29, Maurice Ewing Vol. 5)*, edited by James E. Hansen and Taro Takahashi, pp. 299-306. Washington, DC: American Geophysical Union.
- Officer, Charles B., et al. (1987). “Late Cretaceous and Paroxysmal Cretaceous/Tertiary Extinctions.” *Nature* **326**: 143-49.
- Ohmura, Atsumu and Herbert Lang (1989). In *Current Problems in Atmospheric Radiation*, edited by J. Lenoble and J. F. Geleyn, 298-301. Hampton, VA: Deepak.
- Ohmura, Atsumu, and Martin Wild (2002). “Is the Hydrological Cycle Accelerating?” *Science* **298**: 1345-46.
- Oldroyd, David (1990). “David Hull’s Evolutionary Model for the Progress and Process of Science.” *Biology and Philosophy* **5**: 473-87.
- Oort, A.H., and T.H. Vonder Haar (1976). “On the Observed Annual Cycle in the Ocean-Atmosphere Heat Balance over the Northern Hemisphere.” *Journal of Physical Oceanography* **6**: 781-800.
- Öpik, Ernst J. (1957). “Ice Ages.” In *The Earth and Its Atmosphere*, edited by D.R. Bates, pp. 152-73. New York: Basic Books.
- Öpik, Ernst J. (1958). “Climate and the Changing Sun.” *Scientific American*, June, pp. 85-92.
- Öpik, Ernst J. (1965). “Climatic Change in Cosmic Perspective.” *Icarus* **4**: 289-307.
- Oppenheimer, Michael (1998). “Global Warming and the Stability of the West Antarctic Ice Sheet.” *Nature* **393**: 325-32.
- Oreskes, Naomi, et al. (1994). “Verification, Validation, and Confirmation of Numerical Models in the Earth Sciences.” *Science* **263**: 641-46.
- Oreskes, Naomi (2004). “Beyond the Ivory Tower: The Scientific Consensus on Climate Change.” *Science* **306**: 1686 [doi: 10.1126/science.1103618].

- O’Riordan, Tim, and Jill Jäger (1996). “The History of Climate Change Science and Politics.” In *Politics of Climate Change: A European Perspective*, edited by Tim O’Riordan and Jill Jäger, pp. 1-31. London: Routledge.
- Orszag, S.A. (1970). “Transform Method for Calculation of Vector-Coupled Sums: Application to the Spectral Form of the Vorticity Equation.” *J. Atmospheric Sciences* **27**: 890-95.
- Overpeck, J.T., et al. (1997). “Arctic Environmental Change of the Last Four Centuries.” *Science* **278**: 1251-56.
- Overpeck, J.T., et al. (2005). “Arctic System on Trajectory to New, Seasonally Ice-Free State.” *Eos, Transactions of the American Geophysical Union* **86**: 309, 312-13.
- Pacala, Stephen, and Robert Socolow (2004). "Stabilization Wedges: Solving the Climate Problem for the Next 50 Years with Current Technologies." *Science* **305**: 968-72 [doi:10.1126/science.1100103].
- Palfreman, Jon (2006). “A Tale of Two Fears: Exploring Media Depictions of Nuclear Power and Global Warming.” *Review of Policy Research* **23**: 23-43.
- Pälike, Heiko, et al. (2006). “The Heartbeat of the Oligocene Climate System.” *Science* **314**: 1894-98 [doi:10.1126/science/1133822].
- Palmer, Trevor (1999). *Controversy, Catastrophism and Evolution: The Ongoing Debate*. New York: Kluwer Academic / Plenum.
- Parker, E.N. (1999). “Sunny Side of Global Warming.” *Nature* **399**: 416-17.
- Parmesan, Camille (1996). "Climate and Species' Range." *Nature* **382**: 765-66.
- Parmesan, Camille , et al. (1999). "Poleward Shifts in Geographical Ranges of Butterfly Species Associated with Regional Warming." *Nature* **399**: 579-83 [doi: 10.1038/21181].
- Payne, Antony J., et al. (2004). “Recent Dramatic Thinning of Largest West Antarctic Ice Stream Triggered by Oceans.” *Geophysical Research Letters* **31**: L23401 [doi:10.1029/2004GL021284].
- Pearce, Fred (2002). “Dr. Doom-Monger I Presume.” *New Scientist*, July 13, pp. 50-51.
- Pearce, Fred (2003). “Heat Will Soar as Haze Fades.” *New Scientist*, June 7, 7.
- Pearce, Fred (2005). “Climate Warming as Siberia Melts.” *New Scientist* no. 2512 (13 August), p. 12.
- Pearce, Fred (2005). “The Gathering Storm.” *New Scientist* no. 2528 (3 December), pp. 36-41.
- Pearce, Fred (2005). “The Week the Climate Changed.” *New Scientist* **188**, no. 2521 (15 October), pp. 52-53.
- Pearce, Fred (2006). ““One Degree and We’re Done for”.” *New Scientist* **191**, no. 2571 (Sept. 30), pp. 8-9.
- Pearce, Fred (2007). “Climate Report ‘Was Watered Down’.” *New Scientist* (March 10), p. 10.
- Pearce, Fred (2007). “But Here’s What They Didn’t Tell Us.” *New Scientist* (Feb. 10), pp. 7-8.
- Pearson, Paul N., et al. (2001). “Warm Tropical Sea Surface Temperatures in the Late Cretaceous and Eocene Epochs.” *Nature* **413**: 481-87.
- Pearson, Ronald (1978). *Climate and Evolution*. London: Academic Press.
- Penck, Albrecht, and Eduard Brückner (1901-1909). *Die Alpen im Eiszeitalter (3 Vols.)*. Leipzig: Tauchnitz.
- Penner, J.E., et al. (1992). “Effects of Aerosol from Biomass Burning on the Global Radiation Budget.” *Science* **256**: 1432-34.

- Perry, John S. (1975). "The Global Atmospheric Research Program." *Reviews of Geophysics and Space Physics* **13**: 661-67.
- Perry, John S., and Thomas H.R. O'Neill (1979). "The Global Atmospheric Research Program." *Reviews of Geophysics and Space Physics* **17**: 1753-62.
- Peterson, James T., et al. (1981). "Atmospheric Turbidity over Central North Carolina." *J. Applied Meteorology* **20**: 229-41.
- Peterson, Thomas C., and William M. Connolley (2007 - submitted). "The Myth of the 1970s Global Cooling Scientific Consensus Draft." *Bulletin of the American Meteorological Society*.
- Petit, J.R., et al. (1999). "Climate and Atmospheric History of the Past 420,000 Years from the Vostok Ice Core, Antarctica." *Nature* **399**: 249-36.
- Phillips, Norman A. (1951). "A Simple Three-Dimensional Model for the Study of Large-Scale Extra-Tropical Flow Patterns." *J. Meteorology* **8**: 381-94.
- Phillips, Norman A. (1956). "The General Circulation of the Atmosphere: A Numerical Experiment." *Quarterly J. Royal Meteorological Society* **82**: 123-64.
- Phillips, Norman A. (1959). "An Example of Non-Linear Computational Instability." In *The Atmosphere and the Sea in Motion*, edited by Bert Bolin, pp. 501-04. New York: Rockefeller Institute Press.
- Pierrehumbert, Raymond T. (2004). "Warming the World." *Nature* **432**: 677.
- Piani, C., et al. (2005). "Constraints on Climate Change from a Multi-Thousand Member Ensemble of Simulations." *Geophysical Research Letters* **32**: L23823 [doi: 10.1029/2005GL024452].
- Pielke, Roger A., Sr. (2005). "Land Use and Climate Change." *Science* **310**: 1625-26 [doi: 10.1126/science.1120529].
- Pilewskie, Peter, and Francisco P.J. Valero (1995). "Direct Observations of Excess Solar Absorption by Clouds." *Science* **267**: 1626-29.
- Piltz, Rick S. (2005). "Toward a Second U.S. Climate Change Assessment." *Eos, Transactions of the American Geophysical Union* **86**: 550-51.
- Pinker, R.T., et al. (2005). "Do Satellites Detect Trends in Surface Solar Radiation?" *Science* **308**: 850-54.
- Pisias, Nicklas G., and Nicholas J. Shackleton (1984). "Modelling the Global Climate Response to Orbital Forcing and Atmospheric Carbon Dioxide Changes." *Nature* **310**: 757-59.
- Pisias, Niklas G., and T.C. Moore, Jr. (1981). "The Evolution of Pleistocene Climate: A Time Series Approach." *Earth and Planetary Science Letters* **52**: 450-58.
- Pittock, A. Barrie (2006). "Are Scientists Underestimating Climate Change?" *Eos, Transactions of the American Geophysical Union* **87**: 340.
- Plass, G.N. (1956a). "The Carbon Dioxide Theory of Climatic Change." *Tellus* **8**: 140-54.
- Plass, G.N. (1956b). "The Influence of the 15 μ Band on the Atmospheric Infra-Red Cooling Rate." *Quarterly J. Royal Meteorological Society* **82**: 310-29.
- Plass, G.N. (1956c). "Infrared Radiation in the Atmosphere." *American J. Physics* **24**: 303-21.
- Plass, G.N. (1956d). "Carbon Dioxide and the Climate." *American Scientist* **44**: 302-16.
- Plass, G.N. (1956e). "Effect of Carbon Dioxide Variations on Climate." *American J. Physics* **24**: 376-87.

- Plass, G.N. (1959). "Carbon Dioxide and Climate." *Scientific American*, July, pp. 41-47.
- Plass, G.N., and L.D. Kaplan (1961). "Exchange of Letters." *Tellus* **13**: 296-302.
- Platzman, G.W. (1960). "The Spectral Form of the Vorticity Equation." *J. Meteorology* **17**: 653-44.
- Platzman, G.W. (1979). "The Eniac Computations of 1950 -- Gateway to Numerical Weather Prediction." *Bulletin of the American Meteorological Society* **60**: 302-12.
- Pollack, Henry N., and David S. Chapman (1993). "Underground Records of Changing Climate." *Scientific American*, June, pp. 46-52.
- Pollack, Henry N., et al. (1998). "Climate Change Record in Subsurface Temperatures: A Global Perspective." *Science* **282**: 279-81.
- Pollack, Henry N., and Shaopeng Huang (2000). "Climate Reconstruction from Subsurface Temperatures." *Annual Review of Earth and Planetary Sciences* **28**: 339-65.
- Pollack, Henry N., and J.E. Smerdon (2004). "Borehole Climate Reconstructions: Spatial Structure and Hemispheric Averages." *Journal of Geophysical Research* **109**: D11106 [doi:10.1029/2003JD004163].
- Pollack, James B. (1971). "A Nongrey Calculation of the Runaway Greenhouse: Implications for Venus' Past and Present." *Icarus* **14**: 295-306.
- Pollack, James B., et al. (1975). "A Determination of the Composition of the Venus Clouds from Aircraft Observations in the near Infrared." *Journal of the Atmospheric Sciences* **32**: 376-90.
- Pollack, James B., et al. (1976a). "Volcanic Explosions and Climatic Change: A Theoretical Assessment." *J. Geophysical Research* **81**: 1071-83.
- Pollack, James B., et al. (1976b). "Estimates of the Climatic Impact of Aerosols Produced by Space Shuttles, SST's, and Other High Flying Aircraft." *J. Applied Meteorology* **15**: 247-58.
- Pollack, James B., et al. (1983). "Environmental Effects of an Impact-Generated Dust Cloud: Implications for the Cretaceous-Tertiary Extinction." *Science* **219**: 287-89.
- Pomerance, Rafe (1989). "The Dangers from Climate Warming: A Public Awakening." In *The Challenge of Global Warming*, edited by Dean Edwin Abrahamson, pp. 259-69. Washington, DC: Island Press.
- Ponte, Lowell (1976). *The Cooling*. Englewood Cliffs, NJ: Prentice-Hall.
- Pool, Robert (1990). "Struggling to Do Science for Society." *Science* **248**: 672-73.
- Pooley, Eric (2007). "The Last Temptation of Al Gore." *Time* **169**, no. 22 (May 28), pp. 31-39.
- Porter, Stephen C. (1979). "Hawaiian Glacial Ages." *Quaternary Research* **12**: 161-87.
- Potter, Gerald L., et al. (1981). "Climate Change and Cloud Feedback: The Possible Radiative Effects of Latitudinal Redistribution." *J. Atmospheric Sciences* **38**: 489-93.
- Pouillet (1838). "Mémoire Sur La Chaleur Solaire..." *Comptes Rendus de l'Académie des Sciences* **7**: 24-65.
- Poulsen, Christopher J. (2004). "A Balmy Arctic." *Nature* **432**: 814-15.
- Poundstone, William (1999). *Carl Sagan: A Life in the Cosmos*. New York: Holt.
- Prather, Michael J. (2002). "Citation for Award of 2001 Roger Revelle Medal to James E. Hansen." *Eos, Transactions of the American Geophysical Union* **83**(17): 187.
- Preining, Othmar, and E. James Davis, Eds. (2000). *History of Aerosol Science. Proceedings of*

- the Symposium... Vienna, Austria, 1999*. Vienna: Akademie der Wissenschaften.
- Prentice, I. Colin, and Jon Lloyd (1998). "C-Quest in the Amazon Basin." *Nature* **396**: 619-20.
- President's Science Advisory Committee (1965). *Restoring the Quality of Our Environment. Report of the Environmental Pollution Panel*. Washington, DC: The White House.
- Price, George McReady (1995). *Illogical Geology. The Weakest Point in the Evolution Theory*, Edited by Ronald L. Numbers, Creationism in Twentieth-Century America Vol. 7. New York: Garland (originally published Los Angeles: The Modern Heretic, 1906).
- Pudovkin, M.I., and S.V. Veretenenko (1995). "Cloudiness Decreases Associated with Forbush- Decreases of Galactic Cosmic Rays." *J. Atmospheric and Terrestrial Physics* **57**: 1349-55.
- Pudovkin, M.I., and S.V. Veretenenko (1996). "Variations of the Cosmic Rays as One of the Possible Links between the Solar Activity and the Lower Atmosphere." *Advances in Space Research* **17**: 161-64.
- Purdom, James F.W., and W. Paul Menzel (1996). "Evolution of Satellite Observations in the United States and Their Use in Meteorology." In *Historical Essays on Meteorology 1919-1995*, edited by James Rodger Fleming, pp. 99-155. Boston: American Meteorological Society.
- Radke, L. F., et al. (1989). "Direct and Remote Sensing Observations of the Effects of Ships on Clouds." *Science* **246**: 1146-49.
- Rahmstorf, Stefan (1999). "Shifting Seas in the Greenhouse?" *Nature* **399**: 523-24.
- Rahmstorf, Stefan (2002). "Ocean Circulation and Climate During the Past 120,000 Years." *Nature* **419**: 207-14.
- Rahmstorf, Stefan (2007). "A Semi-Empirical Approach to Projecting Future Sea-Level Rise." *Science* **315**: 368-70 [doi:10.1126/science.1135456].
- Rahmstorf, Stefan, et al. (2007). "Recent Climate Observations Compared to Projections." *Science* **316**: 709 [doi:10.1126/science.113643].
- Rainger, Ronald (2000a). "Science at the Crossroads: The Navy, Bikini Atoll, and American Oceanography in the 1940s." *Historical Studies in the Physical Sciences* **30**(2): 349-71.
- Rainger, Ronald (2000b). "Patronage and Science: Roger Revelle, the U.S. Navy, and Oceanography at the Scripps Institution." *Earth Sciences History* **19**: 58-89.
- Rainger, Ronald (2002, 2004). "A Wonderful Oceanographic Tool': The Atomic Bomb, Radioactivity and American Oceanography in the 1950s." In *The Machine in Neptune's Garden: Historical Perspectives on Technology and the Marine Environment*, edited by Helen M. Rozwadowski and David K. van Keuren, pp. 96-132. Sagamore Beach, MA: Science History Publications/USA.
- Rakipova, L.R. (1966). "Climate Change When Influencing the Arctic Basin (in Russian)." *Meteorologiya i Gidrologiya* **9**: 9.
- Ralph, Elizabeth K., and Henry N. Michael (1974). "Twenty-Five Years of Radiocarbon Dating." *American Scientist* **62**(5): 553-60.
- Ramanathan, V. (1975). "Greenhouse Effect Due to Chlorofluorocarbons: Climatic Implications." *Science* **190**: 50-52.
- Ramanathan, V., et al. (1976). "Sensitivity of Surface Temperature and Atmospheric Temperature to Perturbations in the Stratospheric Concentration of Ozone and Nitrogen

- Dioxide." *J. Atmospheric Sciences* **33**: 1092-1112.
- Ramanathan, V., and James A. Coakley, Jr. (1978). "Climate Modeling through Radiative Convective Models." *Reviews of Geophysics and Space Physics* **16**: 465-89.
- Ramanathan, V. (1980). "Climatic Effects of Anthropogenic Trace Gases." In *Interactions of Energy and Climate*, edited by W. Bach et al., pp. 269-80. Dordrecht: Reidel.
- Ramanathan, V. (1981). "The Role of Ocean-Atmosphere Interactions in the CO₂ Climate Problem." *J. Atmospheric Sciences* **38**: 918-30.
- Ramanathan, V., et al. (1983). "The Response of a Spectral General Circulation Model to Refinements in Radiative Processes." *J. Atmospheric Sciences* **40**: 605-30.
- Ramanathan, V., et al. (1985). "Trace Gas Trends and Their Potential Role in Climate Change." *J. Geophysical Research* **90**: 5547-66.
- Ramanathan, V. (1987). "The Role of Earth Radiation Budget Studies in Climate and General Circulation Research." *Journal of Geophysical Research* **92**: 4075-95.
- Ramanathan, V. (1988). "The Greenhouse Theory of Climate Change: A Test by Inadvertent Global Experiment." *Science* **240**: 293-99.
- Ramanathan, V., et al. (1989a). "Climate and the Earth's Radiation Budget." *Physics Today*, May, pp. 22-32.
- Ramanathan, V., et al. (1989b). "Cloud-Radiative Forcing and Climate: Results from the Earth Radiation Budget Experiment." *Science* **243**: 57-63.
- Ramanathan, V., et al. (1995). "Warm Pool Heat Budget and Shortwave Cloud Forcing: A Missing Physics?" *Science* **267**: 499-503.
- Ramanathan, V., and Andrew M. Vogelmann (1997). "Greenhouse Effect, Atmospheric Solar Absorption and the Earth's Radiation Budget: From the Arrhenius-Langley Era to the 1990s." *Ambio* **26**: 38-46.
- Randall, David A., Ed. (2000). *General Circulation Model Development*. San Diego, CA: Academic Press.
- Randall, Douglas A., et al. (2007). "Climate Models and Their Evaluation." 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. 589-662. Cambridge and New York: Cambridge University Press. Online at <http://www.ipcc.ch/>.
- Rapp, R.R. (1970). "Climate Modification and National Security". Santa Monica, CA, Rand Corporation. Paper P-4476
- Raschke, E., et al. (1973). "The Annual Radiation Balance of the Earth-Atmosphere System During 1969-1970 from Nimbus 3 Measurements." *J. Atmospheric Sciences* **30**: 341-64.
- Rasmussen, R.A., and M.A.K. Khalil (1981a). "Preliminary Communication: Increase in the Concentration of Atmospheric Methane." *Atmospheric Environment* **15**: 883-86.
- Rasmussen, R.A., and M.A.K. Khalil (1981b). "Atmospheric Methane: Trends and Seasonal Cycles." *J. Geophysical Research* **86**: 9826-32.
- Rasool, S. Ichtiaque, and Catheryn de Bergh (1970). "The Runaway Greenhouse and the Accumulation of CO₂ in the Venus Atmosphere." *Nature* **226**: 1037-39.
- Rasool, S. Ichtiaque, and Stephen H. Schneider (1971). "Atmospheric Carbon Dioxide and Aerosols: Effects of Large Increases on Global Climate." *Science* **173**: 138-141.
- Rasool, S. Ichtiaque, et al. (1983). "On Predicting Calamities [with Reply]." *Climatic Change* **5**:

- 201-04.
- Raynaud, D., et al. (1988). "Climatic and CH₄ Cycle Implications of Glacial-Interglacial CH₄ Change in the Vostok Ice Core." *Nature* **333**: 655-57.
- Read, Daniel, et al. (1994). "What Do People Know About Climate Change? 2. Survey Studies of Educated Lay People." *Risk Analysis* **14**: 971-82.
- Ready, Kevin E. (1998). *Gaia Weeps*. Oxnard, CA: Saint Gaudens.
- Redfield, Alfred C. (1958). "The Biological Control of Chemical Factors in the Environment." *American Scientist* **46**: 205-21.
- Reid, R.O., et al. (1975). *Numerical Models of World Ocean Circulation*. Washington, DC: National Academy of Sciences.
- Reiners, William A. (1973). "Terrestrial Detritus and the Carbon Cycle." In *Carbon and the Biosphere*, edited by George M. Woodwell and Erene V. Pecan, pp. 303-27. Washington, DC: Atomic Energy Commission (National Technical Information Service, CONF-7502510).
- Reusswig, F., et al. (2004). *Double Impact—the Climate Blockbuster 'the Day after Tomorrow' and Its Impact on the German Cinema Public (Pik Report No.92)*, Potsdam, Potsdam Institute for Climate Impact Research pp. 65, online at <http://www.pik-potsdam.de/forschung/publikationen/pik-reports/resolveuid/8cee9abdb3b33e0a48cbcd761a834ced>.
- Revelle, Roger, and Arthur E. Maxwell (1952). "Heat Flow through the Floor of the Eastern North Pacific Ocean." *Nature* **170**: 199-200.
- Revelle, Roger, and Rhodes Fairbridge (1957). "Carbonates and Carbon Dioxide." *Memoirs of the Geological Society of America* **67:1**: 239-95.
- Revelle, Roger, and Hans E. Suess (1957). "Carbon Dioxide Exchange between Atmosphere and Ocean and the Question of an Increase of Atmospheric CO₂ During the Past Decades." *Tellus* **9**: 18-27.
- Revelle, Roger (1966). "The Role of the Oceans." *Saturday Review*, 7 May, p. 41?
- Revelle, Roger (1983). "Probable Future Changes in Sea Level Resulting from Increased Atmospheric Carbon Dioxide." In *Changing Climate*, edited by National Research Council Carbon Dioxide Assessment Committee, pp. 433-48. Washington, DC: National Academy of Sciences.
- Revelle, Roger, and P. E. Waggoner (1983). "Effects of a Carbon Dioxide-Induced Climatic Change on Water Supplies in the Western United States." In *Changing Climate*, edited by Carbon Dioxide Assessment Committee, National Research Council, pp. 419-32. Washington, DC: National Academy of Sciences.
- Revelle, Roger (1987). "How I Became an Oceanographer and Other Sea Stories." *Annual Review of Earth and Planetary Sciences* **15**: 1-23.
- Reynolds, Richard W., et al. (1989). "Biases in Satellite-Derived Sea-Surface-Temperature Data." *Nature* **341**: 728-31.
- Richardson, Lewis F. (1922). *Weather Prediction by Numerical Process*. Cambridge: Cambridge University Press (reprinted NY, Dover, 1965).
- Rignot, Eric, and Robert H. Thomas (2002). "Mass Balance of Polar Ice Sheets." *Science* **297**: 1502-06.

- Rignot, Eric, et al. (2004). "Accelerated Ice Discharge from the Antarctic Peninsula Following the Collapse of Larsen B Ice Shelf." *Geophysical Research Letters* **31**: L18401 [doi:10.1029/2004GL020697].
- Rignot, Eric, and Panir Kanagaratnam (2006). "Changes in the Velocity Structure of the Greenland Ice Sheet." *Science* **311**: 986-90 [doi: 10.1126/science.1121381].
- Rigor, I.G., and J.M. Wallace (2004). "Variations in the Age of Arctic Sea-Ice and Summer Sea-Ice Extent." *Geophysical Research Letters* **32**: L09401 [doi:10.1029/2004GL019492].
- Rind, D., and D. Peteet (1985). "Terrestrial Conditions at the Last Glacial Maximum and CLIMAP Sea-Surface Temperature Estimates: Are They Consistent?" *Quaternary Research* **24**: 1-22.
- Rind, D., et al. (1986). "The Impact of Cold North Atlantic Sea Surface Temperatures on Climate: Implications for the Younger Dryas." *Climate Dynamics* **1**: 3-33.
- Rind, D., et al. (1990). "Potential Evapotranspiration and the Likelihood of Future Drought." *J. Geophysical Research* **95**: 9983-10004.
- Rind, D., et al. (1991). "Positive Water Vapour Feedback in Climate Models Confirmed by Satellite Data." *Nature* **349**: 500-03.
- Roan, S. (1989). *Ozone Crisis: The 15-Year Evolution of a Sudden Global Emergency*. New York: Wiley.
- Robbins, Jhan and June (1956). "100 Years of Warmer Weather." *Science Digest*, Feb., pp. 82-85.
- Robert, A.J. (1968). "The Integration of a Spectral Model of the Atmosphere by the Implicit Method." In *WMO IUGG Symposium on Numerical Weather Prediction*, edited by World Meteorological Organization and International Union of Geodesy and Geophysics, Vol. 7, pp. 9-24. Tokyo, Japan: Meteorological Society of Japan.
- Roberts, L. (1989). "Global Warming: Blaming the Sun." *Science* **246**: 992-93.
- Roberts, Walter Orr (1967). "Climate Control." *Physics Today*, Aug., pp. 30-36.
- Roberts, Walter Orr, and Roger H. Olson (1975). "Great Plains Weather." *Nature* **254**: 380.
- Robin, Gordon de Q. (1962). "The Ice of the Antarctic." *Scientific American*, Sept., pp. 132-46.
- Robin, Gordon de Q., and Raymond J. Adie (1964). "The Ice Cover." In *Antarctic Research. A Review of British Scientific Achievement in Antarctica*, edited by Raymond Priestley et al., pp. 100-117. London: Butterworths.
- Robinson, G.D. (1967). "Some Current Projects for Global Meteorological Observation and Experiment." *Quarterly J. Royal Meteorological Society* **98**: 409-18.
- Robinson, G.D. (1971). "Review of Climate Models." In *Man's Impact on the Climate [Study of Critical Environmental Problems (SCEP) Report]*, edited by William H. Matthews et al., pp. 205-15. Cambridge, MA: MIT Press.
- Robinson, Kim Stanley (1994). *Green Mars*. Garden City, NY: Doubleday.
- Robinson, Kim Stanley (2004). *Forty Signs of Rain*. New York: Spectra Books.
- Robinson, Kim Stanley (2005). *Fifty Degrees Below*. New York: Bantam
- Robock, Alan, and Alan E. Strong (1989). "Satellite Data Contamination (Exchange of Letters)." *Nature* **341**: 695.
- Roderick, Michael L., Graham D. Farquhar (2002). "The Cause of Decreased Pan Evaporation over the Past 50 Years." *Science* **298**: 1410-11.

- Rodhe, Henning, and Robert J. Charlson, Eds. (1998). *The Legacy of Svante Arrhenius. Understanding the Greenhouse Effect*. Stockholm: Royal Swedish Academy of Sciences.
- Rooth, C. (1982). "Hydrology and Ocean Circulation." *Progress in Oceanography* **11**: 131-49.
- Rosenfeld, Daniel (2000). "Suppression of Rain and Snow by Urban and Industrial Air Pollution." *Science* **287**: 1793-96.
- Rosenzweig, Cynthia (1985). "Potential CO₂-Induced Climate Effects on North American Wheat-Producing Regions." *Climatic Change* **4**: 367-89.
- Rosenzweig, Cynthia, and Daniel Hillel (1998). *Climate Change and the Global Harvest: Potential Effects of the Greenhouse Effect on Agriculture*. New York: Oxford University Press.
- Rossby, C.-G. (1956). "Aktuella Meteorologiska Problem." *Svensk Naturvetenskap*: 15-80.
- Rossby, C.-G. (1959). "Current Problems in Meteorology." In *The Atmosphere and the Sea in Motion*, edited by Bert Bolin, pp. 9-50. New York: Rockefeller Institute Press.
- Rothrock, D.A., et al. (1999). "Thinning of the Arctic Sea-Ice Cover." *Geophysical Research Letters* **26**: 3469-72.
- Rotstayn, Leon D, and Ulrike Lohmann (2002). "Tropical Rainfall Trends and the Indirect Aerosol Effect." *Journal of Climate* **15**: 2103-16.
- Rott, H., et al. (1996). "Rapid Collapse of Northern Larsen Ice Shelf, Antarctica." *Science* **271**: 788-92.
- Rowntree, P.R. (1989). "Progress and Future Developments in Modelling the Climate System with General Circulation Models." In *Understanding Climate Change (Geophysical Monograph 52, IUGG Volume 7)*, edited by A. Berger et al., pp. 163-75. Washington, DC: American Geophysical Union.
- Royer, D.L., et al. (2001). "Phanerozoic Atmospheric CO₂ Change: Evaluating Geochemical and Paleobiological Approaches." *Earth Sciences Rev.* **54**: 349-92.
- Royer, Dana L., et al. (2007). "Climate Sensitivity Constrained by CO₂ Concentrations over the Past 420 Million Years." *Nature* **446**: 530-32 [doi:10.1038/nature05699].
- Royte, Elizabeth (2001). "The Gospel According to John [Christy]." *Discover*, Feb., pp. 66-73.
- Ruddiman, William F., and Andrew McIntyre (1973). "Time-Transgressive Deglacial Retreat of Polar Waters from the North Atlantic." *Quaternary Research* **3**: 117-30.
- Ruddiman, William F., and Andrew McIntyre (1981a). "The North Atlantic Ocean During the Last Deglaciation." *Palaeogeography, Palaeoclimatology, Palaeoecology* **35**: 145-214.
- Ruddiman, William F., and Andrew McIntyre (1981b). "The Mode and Mechanism of the Last Deglaciation: Oceanic Evidence." *Quaternary Research* **16**: 125-34.
- Ruddiman, William F., et al. (1986). "Matuyama 41,000-Year Cycles: North Atlantic Ocean and Northern Hemisphere Ice Sheets." *Earth and Planetary Science Letters* **80**: 117-29.
- Ruddiman, William F., J.S. Thomson (2001). "The Case for Human Causes of Increased Atmospheric CH₄ over the Last 5000 Years." *Quaternary Science Reviews* **20** : 1769-77.
- Ruddiman, William F. (2005). *Plows, Plagues and Petroleum: How Humans Took Control of Climate*. Princeton, NJ: Princeton University Press.
- Ruddiman, William F. (2006). "On 'The Holocene CO₂ Rise: Anthropogenic or Natural?'" *Eos, Transactions of the American Geophysical Union* **87**: 352-53.
- Rumney, G.R. (1968). *Climatology and the World's Climate*. London: Macmillan.

- Rusin, N., and L. Flit (1960). *Man Versus Climate*. Moscow: Peace.
- Russell, Richard J. (1941). "Climatic Change through the Ages." In *Climate and Man. Yearbook of Agriculture*, edited by United States Department of Agriculture. Washington, DC: US Govt. Printing Office.
- Saad, Lydia (2007a). *Did Hollywood's Glare Heat up Public Concern About Global Warming?*, Princeton, NJ, Gallup News Service pp. Online at <http://www.gallupoll.com/content/?ci=26932>.
- Saad, Lydia (2007b). "To Americans, the Risks of Global Warming Are Not Imminent." (March 12), Gallup Report <http://www.gallupoll.com/content/?ci=26842>.
- Sabine, Christopher L., Richard A. Feely, Nicolas Gruber, et al. (2004). "The Oceanic Sink for Anthropogenic CO₂." *Science* **305**: 367-71.
- Sachs, Harvey Maurice, et al. (1977). "Paleoecological Transfer Functions." *Annual Review of Earth and Planetary Sciences* **5**: 159-78.
- Sagan, Carl (1960a). "The Radiation Balance of Venus". Pasadena, CA, California Institute of Technology, Jet Propulsion Laboratory: 34 pp. Technical Report no. 32-34
- Sagan, Carl (1960b). "The Surface Temperature of Venus (Abstract)." *Astronomical J.* **65**: 352-53.
- Sagan, Carl (1961). "The Planet Venus." *Science* **133**: 849-58.
- Sagan, Carl (1971). "The Long Winter Model of Martian Biology: A Speculation." *Icarus* **15**: 511-14.
- Sagan, Carl, and George Mullen (1972). "Earth and Mars: Evolution of Atmospheres and Temperatures." *Science* **177**: 52-56.
- Sagan, Carl, et al. (1973). "Climate Change on Mars." *Science* **181**: 1045-49.
- Sagan, Carl, et al. (1979). "Anthropogenic Albedo Changes and the Earth's Climate." *Science* **206**: 1363-68.
- Salati, Enias, P.B. Vose (1984). "Amazon Basin: A System in Equilibrium." *Science* **225**: 129-38.
- Salinger, M.J., and J.M. Gunn (1975). "Recent Climatic Warming around New Zealand." *Nature* **256**: 396-98.
- Santer, Benjamin D., et al. (1996). "A Search for Human Influences on the Thermal Structure of the Atmosphere." *Nature* **382**: 39-46.
- Santer, Benjamin D., et al. (2000). "Interpreting Differential Temperature Trends at the Surface and in the Lower Troposphere." *Science* **287**: 1227-31.
- Santer, Benjamin D., et al. (2002). "Accounting for the Effects of Volcanoes and Enso in Comparisons of Modeled and Observed Temperature Trends." *J. Geophysical Research* **106**(D22): 28,033-60.
- Santer, Benjamin D., et al. (2003). "Influence of Satellite Data Uncertainties on the Detection of Externally Forced Climate Change." *Science* **300**: 1280-84.
- Sapolsky, Harvey (1990). *Science and the Navy: The History of the Office of Naval Research*. Princeton, NJ: Princeton University Press.
- Sarewitz, Daniel, and Roger Pielke, Jr. (2000). "Breaking the Global-Warming Gridlock." *Atlantic Monthly*, July, pp. 55-64.
- Sarmiento, J.L., and R. Toggweiler (1984). "A New Model for the Role of the Oceans in

- Determining Atmospheric Pco₂.” *Nature* **308**: 621-24.
- Satheesh, S.K., and V. Ramanathan (2000). “Large Differences in Tropical Aerosol Forcing at the Top of the Atmosphere and Earth’s Surface.” *Nature* **405**: 60-63.
- SCEP (Study of Critical Environmental Problems) (1970). *Man’s Impact on the Global Environment. Assessment and Recommendation for Action*. Cambridge, MA: MIT Press.
- Schaefer, Clemens (1905). “Über das Ultrarote Absorptionsspektrum der Kohlensäure in Seiner Abhängigkeit vom Druck.” *Annalen der Physik* **16**: 93-105.
- Schär, Christoph, and Gerd Jendritzky (2004). “Hot News from Summer 2003.” *Nature* **432**: 559-60.
- Scambos, T. A., et al. (2004). “Glacier Acceleration and Thinning after Ice Shelf Collapse in the Larsen B Embayment, Antarctica.” *Geophysical Research Letters* **31**: L18402 [doi:10.1029/2004GL020670].
- Schell, I.I. (1957). “Theory of Ice Ages.” (Letter) *Science* **125**: 235.
- Scherhag, R. (1937). “Die Erwärmung der Arktis.” *J. du Conseil International pour l’Exploration de la Mer* **12**: 263-76.
- Schiermeier, Quirin (2004a). “A Rising Tide.” *Nature* **428**: 114-15.
- Schiermeier, Quirin (2004b). “Global Warming Anomaly May Succumb to Microwave Study.” *Nature* **429**: 7.
- Schiermeier, Quirin (2004c). “Disaster Movie Highlights Transatlantic Divide.” *Nature* **431**: 4.
- Schiermeier, Quirin (2007). “Churn, Churn, Churn.” *Nature* **447**: 522-24.
- Schimel, D.S., et al. (2001). “Recent Patterns and Mechanisms of Carbon Exchange by Terrestrial Ecosystems.” *Nature* **414**: 169-72.
- Schimel, David, and Elizabeth Sulzmann (1995). “Variability in the Earth Climate System: Decadal and Longer Timescales. In Us National Report to IUGG, 1991-1994.” *Reviews of Geophysics* **33 suppl.**: see www.agu.org/revgeophys/schime01/schime01.html.
- Schindler, David W. (1999). “The Mysterious Missing Sink.” *Nature* **398**: 105-106.
- Schlesinger, Michael E. (1984). “Climate Model Simulations of CO₂-Induced Climatic Change.” *Advances in Geophysics* **26**: 141-235.
- Schlesinger, Michael E., and J.F.B. Mitchell (1987). “Climate Model Simulations of the Equilibrium Response to Increased Carbon Dioxide.” *Reviews of Geophysics* **25**: 760-98.
- Schlesinger, Michael E. , et al. (1985). “The Role of the Ocean in CO₂-Induced Climate Change: Preliminary Results from the OSU Coupled Atmosphere-Ocean General Circulation Model.” In *Coupled Ocean-Atmosphere Models (Elsevier Oceanogr. Ser. 40)*, edited by J.C.J. Nihoul, pp. 447-78. Amsterdam and New York: Elsevier.
- Schneider, Stephen H., and R. Dickinson (1974). “Climate Modelling.” *Reviews of Geophysics and Space Physics* **12**: 447-93.
- Schneider, Stephen H. (1972). “Cloudiness as a Global Climate Feedback Mechanism: The Effects of Radiation Balance and Surface Temperature of Variations in Cloudiness.” *J. Atmospheric Sciences* **29**: 1413-22.
- Schneider, Stephen H., and Clifford Mass (1975a). “Volcanic Dust, Sunspots, and Temperature Trends.” *Science* **190**: 741-46.
- Schneider, Stephen H., and Clifford Mass (1975b). “Volcanic Dust, Sunspots and Long-Term Climate Trends: Theories in Search of Verification.” In *Proceedings of the WMO/IAMAP*

- Symposium on Long-Term Climatic Fluctuations, Norwich, Aug. 1975 (WMO Doc. 421)*, edited by World Meteorological Organization (WMO), pp. 365-72. Geneva: World Meteorological Organization.
- Schneider, Stephen H., and with Lynne E. Mesirow. (1976). *The Genesis Strategy: Climate and Global Survival*. New York: Plenum Press.
- Schneider, Stephen H., et al. (1980). "Carbon Dioxide and Climate (Exchange of Letters)." *Science* **210**: 6.
- Schneider, Stephen H. (1984). "Natural Experiments' and CO₂-Induced Climate Change: The Controversy Drags on (Editorial)." *Climatic Change* **6**: 317-21.
- Schneider, Stephen H., and Randi Londer (1984). *The Co-Evolution of Climate and Life*. San Francisco: Sierra Club Books.
- Schneider, Stephen H. (1987). "An International Program on 'Global Change': Can It Endure?" *Climatic Change* **10**: 211-18.
- Schneider, Stephen H. (1988a). "The Greenhouse Effect and the U.S. Summer of 1988: Cause and Effect or Media Event?" *Climatic Change* **13**: 113-15.
- Schneider, Stephen H. (1988b). "Whatever Happened to Nuclear Winter?" *Climatic Change* **12**: 215-19.
- Schneider, Stephen H. (1989a). *Global Warming: Are We Entering the Greenhouse Century?* San Francisco: Sierra Club Books.
- Schneider, Stephen H. (1989b). "The Greenhouse Effect: Science and Policy." *Science* **243**: 771-82.
- Schneider, Stephen H. (1991). "Editorial." *Climatic Change* **19**(4): v-vi.
- Schneider, Stephen H. (1992). "Introduction to Climate Modeling." In *Climate System Modeling*, edited by Kevin E. Trenberth, pp. 3-26. Cambridge: Cambridge University Press.
- Schneider, Stephen H. (1994). "Detecting Climatic Change Signals: Are There Any 'Fingerprints'?" *Science* **263**: 341-47.
- Schneider, Stephen H. (2001). "Earth Systems Engineering and Management." *Nature* **409**: 417-21.
- Schneider, Stephen H. (2004). "Abrupt Non-Linear Climate Change, Irreversibility and Surprise." *Global Environmental Change* **14**: 245-58.
- Schnitker, Detmar (1979). "The Deep Waters of the Western North Atlantic During the Past 24,000 Years, and the Reinitiation of the Western Boundary Undercurrent." *Marine Micropaleontology* **4**: 265-80.
- Schnitker, Detmar (1982). "Climate Variability and Deep Ocean Circulation: Evidence from the North Atlantic." *Palaeogeography, Palaeoclimatology, Palaeoecology* **40**: 213-34.
- Schott, W. (1935). *Wissensch. Ergebn. Deutschen Atlantischen Expedition Vermess. Forschungsschiff "Meteor" 1925-1927* **3**(3): 43-134.
- Schove, D. Justin (1955). "The Sunspot Cycle, 649 B.C. To A.D. 2000." *J. Geophysical Research* **60**: 127-45.
- Schrag, Daniel P., et al. (1996). "Pore Fluid Constraints on the Temperature and Oxygen Isotopic Composition of the Glacial Ocean." *Science* **272**: 1930-32.
- Schrope, Mark (2000). "Trouble in the Greenhouse." *Nature* **407**: 10-12.
- Schwartz, Peter, and Douglas Randall (2003). "An Abrupt Climate Change Scenario and Its

- Implications for United States National Security.” Emeryville, CA, Global Business Network: 22 pp. (online at http://www.environmentaldefense.org/documents/3566_AbruptClimateChange.pdf)
- Schwartz, Stephen E. (1988). “Are Global Cloud Albedo and Climate Controlled by Marine Phytoplankton?” *Nature* **336**: 441-45.
- Schwarzbach, M. (1963). *Climates of the Past*. London: Van Nostrand.
- Science News (1977). “DOE Sets Interagency CO₂ Research Priorities.” *Science News*, 3 Dec., p. 375.
- Science Newsletter (1940). *Science Newsletter*, 17 Feb., p. 103.
- Science Newsletter (1952). *Science Newsletter* **61** (7 June): 537.
- Science Newsletter (1956). *Science Newsletter* **61** (30 June): 402.
- SCOPE (1979 ff). See Bolin et al; Kates et al.
- Seabrook, John (2000). “Selling the Weather.” *New Yorker*, 3 April, pp. 44-53.
- Seager, Richard, et al. (2002). “Is the Gulf Stream Responsible for Europe’s Mild Winters?” *Quarterly Journal of the Royal Meteorological Society* **128**: 2563-86.
- Sears, Paul B. (1953). “Climate and Civilization.” In *Climatic Change*, edited by Harlow Shapley, pp. 35-50. Cambridge, MA: Harvard University Press.
- Seidel, Stephen, and Dale Keyes (1983). *Can We Delay a Greenhouse Warming? (2nd, Corrected Ed.)*. Washington, DC: Environmental Protection Agency.
- Seiler, Wolfgang, and Paul J. Crutzen (1980). “Estimates of Gross and Net Fluxes of Carbon between the Biosphere and the Atmosphere from Biomass Burning.” *Climatic Change* **2**: 207-47.
- Seitz, Frederick, et al., Eds. (1989). *Scientific Perspectives on the Greenhouse Problem*. Washington, DC: George C. Marshall Institute.
- Seitz, Frederick, Ed. (1990). *Global Warming: What Does the Science Tell Us?* Washington, DC: George C. Marshall Institute.
- Seitz, Frederick, Ed. (1992). *Global Warming Update: Recent Scientific Findings*. Washington, DC: George C. Marshall Institute.
- Self, Will (2006). *The Book of Dave. A Novel*. New York: Bloomsbury USA
- Sellers, William D. (1965). *Physical Climatology*. Chicago: University of Chicago Press.
- Sellers, William D. (1969). “A Global Climatic Model Based on the Energy Balance of the Earth-Atmosphere System.” *J. Applied Meteorology* **8**: 392-400.
- Sellers, William D. (1973). “A New Global Climatic Model.” *J. Applied Meteorology* **12**: 241-53.
- Senior, C.A., and J. F. B. Mitchell (1993). “Carbon Dioxide and Climate: The Impact of Cloud Parameterization.” *Journal of Climate* **6**: 393-418.
- Sergin, Vladimir Ya. (1979). “Numerical Modeling of the Glaciers-Ocean-Atmosphere Global System.” *J. Geophysical Research* **84**: 3191-3204.
- Serreze, Mark C., and Ignatius Rigor (2006). “The Cryosphere and Climate Change: Perspectives on the Arctic’s Shrinking Sea-Ice Cover.” In *Glacier Science and Environmental Change*, edited by Knight, Peter G., pp. 120-25. Malden, MA: Blackwell.
- Severinghaus, Jeffrey P., et al. (1998). “Timing of Abrupt Climate Change at the End of the Younger Dryas Interval from Thermally Fractionated Gases in Polar Ice.” *Nature* **391**:

- 141-46.
- Shackleton, Nicholas J. (1965). "The High-Precision Isotopic Analysis of Oxygen and Carbon in Carbon Dioxide." *J. Scientific Instruments* **42**: 689-92.
- Shackleton, Nicholas J. (1967). "Oxygen Isotope Analyses and Pleistocene Temperatures Re-Assessed." *Nature* **215**: 15-17.
- Shackleton, Nicholas J., and Neil D. Opdyke (1973). "Oxygen Isotope and Paleomagnetic Stratigraphy of Equatorial Pacific Core V28-238: Oxygen Isotope Temperatures and Ice Volumes on a 10^5 Year and 10^6 Year Scale." *Quaternary Research* **3**: 39-55.
- Shackleton, Nicholas J., et al. (1983). "Oxygen and Carbon Isotope Record of East Pacific Core V19-30: Implications for the Formation of Deep Water in the Late Pleistocene North Atlantic." *Earth and Planetary Science Letters* **65**: 233-44.
- Shackleton, Nicholas J., and N.G. Pisias (1985). "Atmospheric Carbon Dioxide, Orbital Forcing and Climate." In *The Carbon Cycle and Atmospheric CO₂: Natural Variations Archean to Present (Geophysical Monograph 32)*, edited by E. T. Sundquist and Wallace S. Broecker, pp. 303-17. Washington, DC: American Geophysical Union.
- Shackleton, Nicholas J. (2000). "The 100,000-Year Ice-Age Cycle Identified and Found to Lag Temperature, Carbon Dioxide and Orbital Eccentricity." *Science* **289**: 1897-1902.
- Shackleton, Nicholas J. (2003). "Shackleton Receives 2002 Maurice Ewing Medal." *Eos, Transactions of the American Geophysical Union* **84**(8): 72.
- Shackley, Simon, et al. (1998). "Uncertainty, Complexity and Concepts of Good Science in Climate Change Modelling: Are GCMs the Best Tools?" *Climatic Change* **38**: 159-205.
- Shackley, Simon, et al. (1999). "Adjusting to Policy Expectations in Climate Change Modeling. An Interdisciplinary Study of Flux Adjustments in Coupled Atmosphere-Ocean General Circulation Models." *Climatic Change* **43**: 413-54.
- Shapley, Deborah (1974). "Weather Warfare: Pentagon Concedes 7-Year Vietnam Effort." *Science* **184**: 1059-61.
- Shapley, Harlow, Ed. (1953). *Climatic Change. Evidence, Causes, and Effects*. Cambridge, MA: Harvard University Press.
- Shaw, Glenn E. (1976). "Properties of the Background Global Aerosol and Their Effects on Climate." *Science* **192**: 1334-36.
- Shaw, Glenn E. (1982). "Atmospheric Turbidity in the Polar Regions." *J. Applied Meteorology* **21**: 1080-88.
- Shaw, Glenn E. (1983). "Bio-Controlled Thermostasis Involving the Sulfur Cycle." *Climatic Change* **5**: 297-303.
- Shepherd, Andrew, et al. (2001). "Inland Thinning of Pine Island Glacier, West Antarctica." *Science* **291**: 862-64 [doi:10.1126/science.291.5505.862].
- Shepherd, Andrew, et al. (2004). "Warm Ocean Is Eroding West Antarctic Ice Sheet." *Geophysical Research Letters* **31**: L23402 [doi: 10.1029/2004GL021106].
- Shepherd, Andrew P., and Duncan Wingham (2007). "Recent Sea-Level Contributions of the Antarctic and Greenland Ice Sheets." *Science* **315**: 1529-32 [doi:10.1126/science.1136776].
- Sheppard, P.A. (1962). "Properties and Processes at the Earth's Surface in Relation to the General Circulation of the Atmosphere." *Advances in Geophysics* **9**: 77-96.

- Sherwood, Steven C., et al. (2005). "Radiosonde Daytime Biases and Late-20th Century Warming." *Science* **309**: 1556-59 [doi: 10.1126/science.1115640].
- Shindell, Drew, et al. (1999). "Solar Cycle Variability, Ozone, and Climate." *Science* **284**: 305-08.
- Shindell, Drew T., et al. (2005). "An Emissions-Based View of Climate Forcing by Methane and Tropospheric Ozone." *Geophysical Research Letters* **32**: L04803 [doi:10.1029/2004GL021900].
- Shine, K.P., and A. Henderson-Sellers (1983). "Modelling Climate and the Nature of Climate Models: A Review." *J. Climatology* **3**: 81-94.
- Showstock, Randy (1999). "Report Suggests Some Public Attitudes About Geophysical and Environmental Issues." *Eos, Transactions of the American Geophysical Union* **80**(24): 269, 276.
- Shukla, J., and Y. Mintz (1982). "Influence of Land-Surface Evapotranspiration on the Earth's Climate." *Science* **215**: 1498-1500.
- Shulman, Seth (2006). *Undermining Science: Suppression and Distortion in the Bush Administration*. Berkeley: University of California Press.
- Shute, Nancy (2001). "The Weather Turns Wild." *U.S. News & World Report*, 5 Feb., pp. 44-52.
- Siegenthaler, U., et al. (1984). "Lake Sediments as Continental Delta¹⁸O Records from the Glacial/Post-Glacial Transition." *Annals of Glaciology* **5**: 149-52.
- Siegenthaler, U., and Th. Wenk (1984). "Rapid Atmospheric CO₂ Variations and Ocean Circulation." *Nature* **308**: 624-26.
- Siegert, Martin J., et al. (2004). "Ice Flow Direction Change in Interior West Antarctica." *Science* **305**: 1948-51 [doi: 10.1126/science.1101072].
- Sigman, Daniel M., and Edward A. Boyle (2000). "Glacial/Interglacial Variations in Atmospheric Carbon Dioxide." *Nature* **407**: 859-69.
- Silberman, I.S. (1954). "Planetary Waves in the Atmosphere." *J. Meteorology* **11**: 27-34.
- Sill, Godfrey T. (1972). "Sulfuric Acid in the Venus Clouds." *Communications of the Lunar and Planetary Laboratory* **9**: 191-98.
- Silverberg, Robert (1994). *Hot Sky at Midnight*. New York: Bantam.
- Simonite, Tom (2005). "Drowning Polar Bears Worry Researchers." *Nature news*, published online 20 December [doi:10.1038/news0051219-6].
- Simpson, George C. (1928a). "Some Studies in Terrestrial Radiation." *Memoirs of the Royal Meteorological Society* **2**(16): 69-95.
- Simpson, George C. (1928b). "Further Studies in Terrestrial Radiation." *Memoirs of the Royal Meteorological Society* **3**(21): 1-26.
- Simpson, George C. (1929a). "The Distribution of Terrestrial Radiation." *Memoirs of the Royal Meteorological Society* **23**(23): 53-78.
- Simpson, George C. (1929b). "Discussion of Memoirs." *Quarterly J. Royal Meteorological Society* **55**: 73-79.
- Simpson, George C. (1934). "World Climate During the Quaternary Period." *Quarterly J. Royal Meteorological Society* **60**: 425-71.
- Simpson, George C. (1937). "Ice Ages." *Proceedings of the Royal Institution of Great Britain* **30**: 125-142.

- Simpson, George C. (1939-40). "Probable Causes of Change in Climate and Their Limitations." *Proceedings of the Linnaean Society of London* **152**: 190-219.
- Singer, S. Fred (1970). *Global Effects of Environmental Pollution*. New York: Springer-Verlag.
- Singer, S. Fred (1998). *Hot Talk, Cold Science: Global Warming's Unfinished Debate*. Oakland, CA: Independent Institute.
- Singer, S. Fred (1999). "Human Contribution to Climate Change Remains Questionable." *Eos, Transactions of the American Geophysical Union* **80**(16): 183-87.
- Singer, S. Fred, and Dennis T. Avery (2007). *Unstoppable Global Warming: Every 1,500 Years*. Lanham, MD: Rowman & Littlefield.
- Skirrow, Geoffrey (1965). "The Dissolved Gases -- Carbon Dioxide." In *Chemical Oceanography*, edited by John P. Riley and Geoffrey Skirrow, pp. 227-322. London: Academic Press.
- Slade, David H. (1990). "A Survey of Informal Opinion Regarding the Nature and Reality of a 'Global Greenhouse Warming'." *Climatic Change* **16**: 1-4.
- Slocum, Giles (1955). "Has the Amount of Carbon Dioxide in the Atmosphere Changed Significantly since the Beginning of the Twentieth Century?" *Monthly Weather Review*, Oct., pp. 225-31.
- Smagorinsky, Joseph (1963). "General Circulation Experiments with the Primitive Equations. I. The Basic Experiment." *Monthly Weather Review* **41**: 99-164.
- Smagorinsky, Joseph, et al. (1965). "Numerical Results from a Nine-Level General Circulation Model of the Atmosphere." *Monthly Weather Review* **93**: 727-68.
- Smagorinsky, Joseph (1970). "Numerical Simulation of the Global Circulation." In *Global Circulation of the Atmosphere*, edited by G.A. Corby, pp. 24-41. London: Royal Meteorological Society.
- Smagorinsky, Joseph (1972). "The General Circulation of the Atmosphere." In *Meteorological Challenges: A History*, edited by D.P. McIntyre, pp. 3-41. Ottawa: Information Canada.
- Smagorinsky, Joseph (1983). "The Beginnings of Numerical Weather Prediction and General Circulation Modeling: Early Recollections." *Advances in Geophysics* **25**: 3-37.
- Smagorinsky, Joseph (1991). "Climate's Scientific Maturity." In *Climate in Human Perspective: A Tribute to Helmut F. Landsberg*, edited by F. Baer et al. Dordrecht: Kluwer Academic.
- Smith, R.N., et al. (1968). *Detection and Measurement of Infra-Red Radiation*. Oxford: Clarendon.
- Soden, Brian J., et al. (2002). "Global Cooling after Eruption of Mount Pinatubo: A Test of Climate Feedback by Water Vapor." *Science* **296**: 727-30.
- Soden, Brian J., et al. (2005). "The Radiative Signature of Upper Tropospheric Moistening." *Science* **310**: 841-44 [doi: 10.1126/science.1115602].
- Solanki, S.K., et al. (2004). "Unusual Activity of the Sun During Recent Decades Compared to the Previous 11,000 Years." *Nature* **431**: 1084-87 [doi: 10.1038/nature02995].
- Solomon, Susan, et al. (Eds.) (2007) *Climate Change 2007: The Physical Basis of Climate Change. Contribution of Working Group I to the Fourth Assessment Report of the IPCC* (online at <http://www.ipcc.ch/>).
- Somerville, R., et al. (2007). "Historical Overview of Climate Change Science." 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. 93-127 (online at <http://www.ipcc.ch/>).
- Soon, Willie, Sallie Baliunas (2003). "Proxy Climatic and Environmental Changes of the Past 1000 Years." *Climate Research* **23**: 89-110.
- Spencer, R.W., and J.R. Christy (1992). "Precision and Radiosonde Validation of Satellite Gridpoint Temperature Anomalies. Part II: A Tropospheric Retrieval and Trends During 1979-1990." *J. Climate* **5**: 856-66.
- Spencer, Roy W., and John R. Christy (1990). "Precise Monitoring of Global Temperature Trends from Satellites." *Science* **247**: 1558-62.
- Speth, James G. (2004). *Red Sky at Morning. America and the Crisis of the Global Environment*. New Haven: Yale University Press.
- Stainforth, D.A., et al. (2005). "Uncertainty in Predictions of the Climate Response to Rising Levels of Greenhouse Gases." *Nature* **433**: 403-06.
- Stamm, Keith R., et al. (2000). "Mass Communication and Public Understanding of Environmental Problems: The Case of Global Warming." *Public Understanding of Science* **9**: 219-37.
- Stanhill, Gerald (1999). "Climate Change Science Is Now Big Science." *Eos, Transactions of the American Geophysical Union* **80**(35): 396-97.
- Stanhill, Gerald (2001). "The Growth of Climate Change Science: A Scientometric Study." *Climatic Change* **48**: 515-24.
- Stanhill, Gerald, and Shabtai Cohen (2001). "Global Dimming: A Review of the Evidence for a Widespread and Significant Reduction in Global Radiation with Discussion of Its Probable Causes and Possible Agricultural Consequences." *Agricultural and Forest Meteorology* **107**: 255-78.
- Stanhill, Gerald (2007). "A Perspective on Global Warming, Dimming, and Brightening." *Eos, Transactions of the American Geophysical Union* **88**: 58.
- Stauffer, B., et al. (1988). "Methane Concentration in the Glacial Atmosphere Was Only Half That of the Preindustrial Holocene." *Nature* **332**: 812-14.
- Stebbing, E.P. (1935). "The Encroaching Sahara: The Threat to the West African Colonies." *Geographical J.* **85**: 506-24.
- Stehr, Nico, and Hans von Storch, Eds. (2000). *Edward Brückner -- the Sources and Consequences of Climate Change and Climate Variability in Historical Times*. Dordrecht: Kluwer.
- Stepanova, Nina A. (1952). "A Selective Annotated Bibliography of Carbon Dioxide in the Atmosphere." *Meteorological Abstracts* **3**: 137-170.
- Stephens, Britton B., et al. (2007). "Weak Northern and Strong Tropical Land Carbon Uptake from Vertical Profiles of Atmospheric CO₂." *Science* **316**: 1732-35 [doi:10.1126/science.1137004].
- Sterling, Bruce (1995). *Heavy Weather*. London: Gollancz.
- Stern, Nicholas (2006). *The Economics of Climate Change: The Stern Review*, Cambridge, Cambridge University Press and HM Treasury (online at http://www.hm-treasury.gov.uk/independent_reviews/stern_review_economics_climate_change/stern_review_report.cfm).

- Stevens, Mark (2004). "Boro Hell." *New York Magazine*, May 10, 60.
- Stevens, William K. (1999). *The Change in the Weather. People, Weather and the Science of Climate*. New York: Delacorte Press.
- Stipp, David (2004). "The Pentagon's Weather Nightmare." *Fortune*, 9 February, pp. 105-08.
- Stocker, Thomas F., and Andreas Schnitter (1997). "Influence of CO₂ Emission Rates on the Stability of the Thermohaline Circulation." *Nature* **388**: 862-65.
- Stocker, Thomas F. (1998). "The Seesaw Effect." *Science* **282**: 61-62
[doi:10.1126/science.282.5386.61].
- Stocker, Thomas F. (1999). "Hans Oeschger (1927-98)." *Nature* **397**: 396.
- Stokstad, Erik (2004). "Three Degrees of Consensus." *Science* **305**: 932-33.
- Stolarski, Richard A., and Ralph J. Cicerone. (1974). "Stratospheric Chlorine: A Possible Sink for Ozone." *Canadian J. Chemistry* **52**: 1610-15.
- Stommel, Henry (1961). "Thermohaline Convection with Two Stable Regimes of Flow." *Tellus* **13**: 224-30.
- Stommel, Henry (1970). "Future Prospects for Physical Oceanography." *Science* **168**: 1531-38.
- Stommel, Henry (1987). *A View of the Sea*. Princeton, NJ: Princeton University Press.
- Storey, Michael, et al. (2007). "Paleocene-Eocene Thermal Maximum and the Opening of the Northeast Atlantic." *Science* **316**: 58-89 [doi:10.1126/science.1135274].
- Stothers, R. B. (1984). "The Great Tambora Eruption of 1815 and Its Aftermath." *Science* **224**: 1191-98.
- Stott, Peter A., et al. (2000). "External Control of 20th Century Temperature by Natural and Anthropogenic Forcing." *Science* **290**: 2133-37.
- Stott, Peter A., et al. (2004). "Human Contribution to the European Heatwave of 2003." *Nature* **432**: 611-14 [doi: 10.1038/nature03089].
- Stradling, David (1999). *Smokestacks and Progressives: Environmentalists, Engineers and Air Quality in America, 1881-1951*. Baltimore, MD: Johns Hopkins University Press.
- Stringer, E. T. (1972). *Foundations of Climatology*. San Francisco: W.H. Freeman.
- Stroeve, J.C., et al. (2005). "Tracking the Arctic's Shrinking Ice Cover: Another Extreme Minimum in 2004." *Geophysical Research Letters* **32**: L04501
[doi:10.1029/2004GL021302].
- Stroeve, Julienne, et al. (2007). "Arctic Sea Ice Decline: Faster Than Forecast." *Geophysical Research Letters* **34**: L09501 [doi:10.1029/2007GL029703].
- Stuiver, Minze (1961). "Variations in Radiocarbon Concentration and Sunspot Activity." *J. Geophysical Research* **66**: 273 -76.
- Stuiver, Minze (1965). "Carbon-14 Content of 18th- and 19th-Century Wood Variations Correlated with Sunspot Activity." *Science* **149**: 533-34.
- Stuiver, Minze, and Hans E. Suess (1966). "On the Relationship between Radiocarbon Dates and True Sample Ages." *Radiocarbon* **8**: 534-40.
- Stuiver, Minze (1978). "Atmospheric Carbon Dioxide and Carbon Reservoir Changes." *Science* **199**: 253-58.
- Stuiver, Minze, and Paul D. Quay (1980). "Changes in Atmospheric Carbon-14 Attributed to a Variable Sun." *Science* **207**: 11-19.

- Stumm, Werner, Ed. (1977). *Global Chemical Cycles and Their Alterations by Man (Report of Dahlem Workshop, Berlin, Nov. 1976)*. Physical and Chemical Sciences Research Reports Vol. 2. Berlin: Abakon.
- Stute, Martin, et al. (1995). "Cooling of Tropical Brazil (5oc) During the Last Glacial Maximum." *Science* **269**: 379-83.
- Suess, Hans E. (1953). "Natural Radiocarbon and the Rate of Exchange of Carbon Dioxide between the Atmosphere and the Sea." In *Nuclear Processes in Geologic Settings*, edited by National Research Council Committee on Nuclear Science, pp. 52-56. Washington, D. C.: National Academy of Sciences.
- Suess, Hans E. (1954). "Natural Radiocarbon Measurements by Acetylene Counting." *Science* **120**: 5-7.
- Suess, Hans E. (1955). "Radiocarbon Concentration in Modern Wood." *Science* **122**: 415-17.
- Suess, Hans E. (1956). "Absolute Chronology of the Last Glaciation." *Science* **123**: 355-57.
- Suess, Hans E. (1965). "Secular Variations of the Cosmic-Ray-Produced Carbon-14 in the Atmosphere and Their Interpretation." *J. Geophysical Research* **70**: 5937-52.
- Suess, Hans E. (1968). "Climatic Changes, Solar Activity, and the Cosmic-Ray Production Rate of Natural Radiocarbon (in Mitchell, Ed., *Causes of Climate Change*, 1965 Conf.)" *Meteorological Monographs* **8**(30): 146-50.
- Sullivan, Walter (1961). *Assault on the Unknown: The International Geophysical Year*. New York: McGraw-Hill.
- Sun, De-Zheng, and Isaac M. Held (1996). "A Comparison of Modeled and Observed Relationships between Interannual Variations of Water Vapor and Temperature." *J. Climate* **9**: 665-75.
- Sundquist, Eric T. (1987). "Ice Core Links CO₂ to Climate." *Nature* **329**: 389-90.
- Sutcliffe, R. C. (1963). "Theories of Recent Changes of Climate." In *Changes of Climate. Proceedings of the Rome Symposium Organized by UNESCO and the World Meteorological Organization, 1961 (UNESCO Arid Zone Research Series, 20)* pp. 277-280. Paris: UNESCO.
- Svensmark, Henrik, and Eigil Friis-Christensen (1997). "Variation of Cosmic Ray Flux and Global Cloud Coverage--a Missing Link in Solar-Climate Relationships." *J. Atmospheric and Solar-Terrestrial Physics* **59**: 1225-32.
- Svensmark, Henrik, et al. (2007). "Experimental Evidence for the Role of Ions in Particle Nucleation under Atmospheric Conditions." *Proceedings of the Royal Society A* **463**: 385-96 [doi:10.1098/rspa.2006.1773].
- Sverdrup, Harald Ulrik, et al. (1942). *The Oceans, Their Physics, Chemistry, and General Biology*. New York: Prentice-Hall.
- Sverdrup, Harald Ulrik (1957). "Oceanography." In *Geophysik II (Vol. 48 of Handbuch der Physik)*, edited by J. Bartels, pp. 608-70. Berlin: Springer.
- Taba, H. (1991). "The Bulletin Interviews: Professor H.E. Landsberg." In *Climate in Human Perspective: A Tribute to Helmut F. Landsberg*, edited by F. Baer et al., pp. 97-109. Dordrecht: Kluwer Academic (Reprinted from *WMO Bulletin* **33**, no. 2, 1984).
- Takano, K. (1975). "A Numerical Simulation of the World Ocean Circulation: Preliminary Results." In *Numerical Models of World Ocean Circulation*, edited by R.O. Reid et al.,

- pp. 121-29. Washington, DC: National Academy of Sciences.
- Tans, P. P., et al. (1990). "Observational Constraints on the Global Atmospheric CO₂ Budget." *Science* **247**: 1431-38.
- Taylor, Billie L., et al. (1980). "Volcanic Eruptions and Long-Term Temperature Records: An Empirical Search for Cause and Effect." *Quarterly J. Royal Meteorological Society* **106**: 175-99.
- Taylor, K.C., et al. (1993). "Electrical Conductivity Measurements from the GISP2 and GRIP Greenland Ice Cores." (Letter to Editor) *Nature* **366**: 549-52.
- Taylor, K.C., et al. (1997). "The Holocene/Younger Dryas Transition Recorded at Summit, Greenland." *Science* **278**: 825-27.
- Taylor, K.E., and J.E. Penner (1994). "Response of the Climate System to Atmospheric Aerosols and Greenhouse Gases." *Nature* **369**: 734-37.
- Telegdas, K., and J. London (1954). "A Physical Model of the Northern Hemisphere Troposphere for Winter and Summer." New York, New York University. Science Report 1
- Tett, Simon F.B., et al. (1999). "Causes of Twentieth-Century Temperature Change near the Earth's Surface." *Nature* **399**: 569-72.
- Thomas, Robert H. (1973a). "The Creep of Ice Shelves: Theory." *J. Glaciology* **312**: 45-53.
- Thomas, Robert H. (1973b). "The Creep of Ice Shelves: Interpretation of Observed Behavior." *J. Glaciology* **12**: 55-70.
- Thomas, Robert H., and Charles R. Bentley (1978). "A Model for Holocene Retreat of the West Antarctic Ice Sheet." *Quaternary Research* **10**: 150-70.
- Thomas, Robert H., et al. (1979). "Effect of Climatic Warming on the West Antarctic Ice Sheet." *Nature* **277**: 355-58.
- Thomas, Robert H. (1993). "Ice Sheets." In *Atlas of Satellite Observations Related to Global Climate Change*, edited by R.J. Gurney et al., pp. 385-400. Cambridge: Cambridge University Press.
- Thomas, Robert H., et al. (2004). "Accelerated Sea-Level Rise from West Antarctica." *Science* **306**: 255-58 [doi: 10.1126/science.1099650].
- Thompson, B.J., et al. (2001). "The Origins, Development and Conduct of WOCE." In *Ocean Circulation and Climate. Observing and Modelling the Global Ocean*, edited by Gerold Siedler et al., pp. 31-43. San Diego: Academic Press.
- Thompson, Lonnie G., et al. (1985). "A 1500-Year Record of Tropical Precipitation in Ice Cores from the Quelccaya Ice Cap, Peru." *Science* **229**: 971-73.
- Thompson, Lonnie G. (1986). "The Little Ice Age as Recorded in the Stratigraphy of the Tropical Quelccaya Ice Cap." *Science* **234**: 361-64.
- Thompson, Lonnie G., et al. (1993). "Recent Warming': Ice Core Evidence from Tropical Ice Cores, with Emphasis on Central Asia." *Global and Planetary Change* **7**: 145-56.
- Thompson, Lonnie G., et al. (1995). "Late Glacial Stage and Holocene Tropical Ice Core Records from Huascarán, Peru." *Science* **269**: 46-50.
- Thompson, Michael, and Steve Rayner (1998). "Cultural Discourses." In *Human Choice and Climate Change. The Societal Framework*, edited by Steve Rayner and Elizabeth L. Malone, Vol. **1**, pp. 265-343. Columbus, OH: Battelle Press.

- Thompson, Philip Duncan (1983). "History of Numerical Weather Prediction in the United States." *Bulletin of the American Meteorological Society* **64**: 755-69.
- Thompson, Starley L., and Stephen H. Schneider (1986). "Nuclear Winter Reappraised." *Foreign Affairs* **64**(5): 981-1005.
- Thompson, W. G., and S.L. Goldstein (2005). "Open System Coral Ages Reveal Persistent Suborbital Sea-Level Cycles." *Science* **308**: 401-404 [doi: 10.1126/science.1104035].
- Time (1939). "Warmer World." *Time*, 2 Jan., p. 27.
- Time (1951). "Retreat of the Cold." *Time*, 29 Oct., p. 76.
- Time (1972). "Another Ice Age?" *Time*, 13 Nov., p. 81.
- Time (1974a). "Another Ice Age?" *Time*, 26 June, p. 86.
- Time (1974b). "Weather Change: Poorer Harvests." *Time*, 11 Nov., pp. 80-83.
- Time (2001). "Feeling the Heat." *Time*, 9 April, pp. 22-39.
- Tinsley, Brian A., et al. (1989). "Solar Variability Influences on Weather and Climate: Possible Connections through Cosmic Ray Fluxes and Storm Intensification." *J. Geophysical Research* **94**: 14783-92.
- Tolman, Cyrus F., Jr. (1899). "The Carbon Dioxide of the Ocean and Its Relations to the Carbon Dioxide of the Atmosphere." *J. Geology* **7**: 585-620.
- Toon, Owen B., et al. (1975). "Climatic Change on Mars and Earth." In *Proceedings of the WMO/IAMAP Symposium on Long-Term Climatic Fluctuations, Norwich, Aug. 1975 (WMO Doc. 421)* pp. 495-503. Geneva: World Meteorological Organization.
- Toon, Owen B., and James B. Pollack (1976). "A Global Average Model of Atmospheric Aerosols for Radiative Transfer Calculations." *J. Applied Meteorology* **15**: 225-46.
- Toon, Owen B. (2000). "How Pollution Suppresses Rain." *Science* **287**: 1763-66.
- Trenberth, Kevin E. (1999). "Global Climate Project Shows Early Promise." *Eos, Transactions of the American Geophysical Union* **80**(24): 269, 274-75.
- Trenberth, Kevin E. (2005). "Uncertainty in Hurricanes and Global Warming." *Science* **308**: 1753-54 [doi: 10.1126/science.1112551].
- Trewartha, Glenn T. (1943). *An Introduction to Weather and Climate*. New York: McGraw-Hill.
- Trewartha, Glenn T., and Lyle H. Horn (1980). *An Introduction to Climate*. New York: McGraw-Hill.
- Truffer, Martin, and Mark Fahnestock (2007). "Rethinking Ice Sheet Time Scales." *Science* **315**: 1508-10 [doi:10.1126/science.1140469].
- Trumbo, Craig (1996). "Constructing Climate Change: Claims and Frames in Us News Coverage of an Environmental Issue." *Public Understanding of Science* **5**: 269-83.
- Turco, R.P., et al. (1983). "Nuclear Winter: Global Consequences of Multiple Nuclear Explosions." *Science* **222**: 1283-92.
- Turner, George (1988). *Drowning Towers*, Arbor House [originally published in the UK as *The Sea in Summer* (1987); reissued Avon (1996)].
- Twomey, Sean A. (1974). "Pollution and the Planetary Albedo." *Atmospheric Environment* **8**: 1251-56.
- Twomey, Sean A. (1977a). "The Influence of Pollution on the Shortwave Albedo of Clouds." *J. Atmospheric Sciences* **34**: 1149-52.
- Twomey, Sean A. (1977b). *Atmospheric Aerosols*. Amsterdam: Elsevier.

- Twomey, Sean A. (1977c). "The Effect of Cloud Scattering on the Absorption of Solar Radiation by Atmospheric Dust." *J. Atmospheric Sciences* **29**: 1156-59.
- Twomey, Sean A. (1980). "Cloud Nucleation in the Atmosphere and the Influence of Nucleus Concentration Levels in Atmospheric Physics." *J. Physical Chemistry* **84**: 1459-63.
- Twomey, Sean A., et al. (1984). "An Assessment of the Impact of Pollution on Global Cloud Albedo." *Tellus* **36B**: 356-66.
- Tyndall, John (1861). "On the Absorption and Radiation of Heat by Gases and Vapours..." *Philosophical Magazine ser. 4, 22*: 169-94, 273-85.
- Tyndall, John (1863a). "On Radiation through the Earth's Atmosphere." *Philosophical Magazine ser. 4, 25*: 200-206.
- Tyndall, John (1863b). "On the Relation of Radiant Heat to Aqueous Vapor." *Philosophical Magazine ser. 4, 26*: 30-54.
- Tyndall, John (1873a). *Contributions to Molecular Physics in the Domain of Radiant Heat*. New York: Appleton.
- Tyndall, John (1873b). "Further Researches on the Absorption and Radiation of Heat by Gaseous Matter (1862)." In *Contributions to Molecular Physics in the Domain of Radiant Heat* pp. 69-121. New York: Appleton.
- U.S. News & World Report (1976). "Even U.S. Farms May Be Hit by Cooling Trend." *U.S. News & World Report*, 31 May, p. 56.
- U.S. News & World Report (1977). "Is Energy Use Overheating the World?" *U.S. News & World Report*, 25 July.
- Ulam, S.M. (1976). *Adventures of a Mathematician*. New York: Scribner's.
- Underwood, Anne (2007). "Mayors Take the Lead." *Newsweek* (April 16), pp. 68-70.
- Ungar, Sheldon (1992). "The Rise and (Relative) Decline of Global Warming as a Social Problem." *Sociological Quarterly* **33**(4): 483-501.
- Ungar, Sheldon (1995). "Social Scars and Global Warming: Beyond the Rio Convention." *Society and Natural Resources* **8**: 443-56.
- United States Congress (85:2), House of Representatives, Committee on Appropriations (1957). *Report on the International Geophysical Year*. Washington, DC: U.S. Government Printing Office.
- United States Congress (94:2), House of Representatives, Committee on Science and Technology, Subcommittee on the Environment and the Atmosphere (1976). *The National Climate Program Act: Hearings*. Washington, DC: U.S. Government Printing Office.
- United States Congress (95:1), Senate, Committee on Commerce, Science and Transportation, Subcommittee on Science, Technology and Space (1977). *The National Climate Program Act: Hearings*. Washington, DC: U.S. Government Printing Office.
- United States Congress (97:1), House, Committee on Science and Technology, Subcommittee on Natural Resources, Agricultural Research and Environment (1981). *Carbon Dioxide and Climate: The Greenhouse Effect. Hearings*. Washington, DC: U.S. Government Printing Office.
- United States Congress (107:1), Senate, Committee on Governmental Affairs (2001). *The Climate Change Strategy and Technology Innovation Act of 2001: Hearings*.

- Washington, DC: U.S. Government Printing Office (online at <http://www.access.gpo.gov/congress>).
- United States, Department of Commerce, Advisory Committee on Weather Services (1953). *Weather Is the Nation's Business*. Washington, DC: U.S. Government Printing Office.
- United States, Office of Scientific Research and Development, National Defense Research Committee (D. Sinclair ed.) (1950). *Handbook on Aerosols. Chapters from the Summary Technical Report of Division 10, National Defense Research Committee, Selected and Published by the U.S. Atomic Energy Commission*. Washington, DC: U.S. Govt. Printing Office.
- United States, Environmental Protection Agency (Joel B. Smith and Dennis Tirpak, eds.) (1989). *The Potential Effects of Global Climate Change on the United States* (EPA-230-05-89-050), Washington, DC, Environmental Protection Agency.
- Union of Concerned Scientists (2007a). *Smoke, Mirrors & Hot Air: How Exxonmobil Uses Big Tobacco's Tactics to Manufacture Uncertainty on Climate Science*, Cambridge, MA, Union of Concerned Scientists 68 pp. (online at http://www.ucsusa.org/news/press_release/ExxonMobil-GlobalWarming-tobacco.html).
- Union of Concerned Scientists, Government Accountability Project (Timothy Donaghy et al.), (2007b). *Atmosphere of Pressure: Political Interference in Federal Climate Science*, Cambridge, MA, 92 pp. (online at http://www.ucsusa.org/scientific_integrity/interference/atmosphere-of-pressure.html).
- Urey, Harold C. (1947). "The Thermodynamic Properties of Isotopic Substances." *J. Chemical Society* **1947**: 562-81.
- Urey, Harold C., et al. (1950). "Paleotemperatures of the Upper Cretaceous." *Science* **111**: 462-63.
- van der Sluijs, Jeroen, et al. (1998). "Anchoring Devices in Science for Policy: The Case of Consensus around Climate Sensitivity." *Social Studies of Science* **28**: 291-323.
- Van der Veen, C.J. (1985). "Response of a Marine Ice Sheet to Changes at the Grounding Line." *Quaternary Research* **24**: 257-67.
- Van der Veen, C.J., and J. Oerlemans, Eds. (1987). *Dynamics of the West Antarctic Ice Sheet. Proceedings of a Workshop Held in Utrecht, May 6-8, 1985*. Dordrecht: Reidel.
- Van der Veen, C.J. (1988). "Projecting Future Sea Level." *Surveys in Geophysics* **9**: 389-418.
- van Keuren, David K. (2000). "Building a New Foundation for the Ocean Sciences: The National Science Foundation and Oceanography, 1951-1965." *Earth Sciences History* **19**: 90-109.
- van Woerkom, A.J.J. (1953). "The Astronomical Theory of Climate Change." In *Climatic Change*, edited by Harlow Shapley, pp. 147-57. Cambridge, MA: Harvard University Press.
- Velikovsky, Immanuel (1955). *Earth in Upheaval*. Garden City, NY: Doubleday.
- Vellinga, M., and R.A. Wood (2002). "Global Climatic Impacts of a Collapse of the Atlantic Thermohaline Circulation." *Climatic Change* **54**(251-67).
- Vernadsky, V.I. (1924). *La Géochimie*. Paris: Félix Alcan.
- Vernadsky, V.I. (1929). *La Biosphère*. Paris: Félix Alcan. English translation as *The Biosphere: The Complete Annotated Edition*. New York, Springer-Verlag, 1998.
- Vernadsky, V.I. (1945). "The Biosphere and the Noösphere." *American Scientist*, Jan., pp. 1-12.

- Victor, David G. (2001). *The Collapse of the Kyoto Protocol and the Struggle to Slow Global Warming*. Princeton, NJ: Princeton University Press.
- Volk, Tyler, and Martin I. Hoffert (1985). "Ocean Carbon Pumps: Analysis of Relative Strengths and Efficiencies in Ocean-Driven Atmospheric CO₂ Changes." In *The Carbon Cycle and Atmospheric CO₂: Natural Variations Archaean to Present*, edited by E.T. Sundquist and Wallace S. Broecker, pp. 99-110. Washington, DC: American Geophysical Union.
- von Neumann, John (1955). "Can We Survive Technology?" *Fortune*, June, pp. 106-108, 151-52.
- von Storch, Hans, et al. (2004). "Reconstructing Past Climate from Noisy Data." *Science* **306**: 679-682 [doi: 10.1126/science.1096109].
- Vonder Haar, T.H., et al. (1981). "Measurements of the Earth Radiation Budget from Satellites During the First GARP Global Experiment." *Advances in Space Research* **1**: 285-97.
- Wade, Nicholas (1979). "CO₂ in Climate: Gloomisday Predictions Have No Fault." *Science* **206**: 912-13.
- Wahl, Eugene R., et al. (2006). "Comment on 'Reconstructing Past Climate from Noisy Data'." *Science* **312**: 529b [doi: 10.1126/science.1120866].
- Wait, G.R. (1946). "Some Experiments Relating to the Electrical Conductivity of the Lower Atmosphere." *J. Washington Academy of Sciences* **36**: 321-43.
- Walker, Gabrielle (1999). "Great Rivers of Ice!" *New Scientist*, 17 April, pp. 54-58.
- Walker, Gabrielle (2000). "The Ice Man (Interview with Jean-Robert Petit)." *New Scientist*, 29 January, pp. 40-43.
- Walker, James C.G., et al. (1981). "A Negative Feedback Mechanism for the Long-Term Stabilization of Earth's Surface Temperature." *J. Geophysical Research* **86**: 9776-82.
- Wallace, John M., and David W. J. Thompson (2002). "Annular Modes and Climate Prediction." *Physics Today*, Feb., pp. 28-33.
- Wallén, C.C. (1963). "Aims and Methods in Studies of Climatic Fluctuations." In *Changes of Climate. Proceedings of the Rome Symposium Organized by UNESCO and the World Meteorological Organization, 1961 (UNESCO Arid Zone Research Series, 20)* pp. 467-73. Paris: UNESCO.
- Walter, K.M., et al. (2006). "Methane Bubbling from Siberian Thaw Lakes as a Positive Feedback to Climate Warming." *Nature* **443**: 71-75 [doi:10.1038/nature05040].
- Wang, W., and G.M. Domoto (1974). "The Radiative Effect of Aerosols in the Earth's Atmosphere." *J. Applied Meteorology* **13**: 521-34.
- Wang, W.C., et al. (1976). "Greenhouse Effects Due to Man-Made Perturbations of Trace Gases." *Science* **194**: 685-90.
- Wang, X., and J. Key (2003). "Recent Trends in Arctic Surface, Cloud, and Radiation Properties from Space." *Science* **299**: 1725-28.
- Ward, Peter D., and Donald Brownlee (2000). *Rare Earth. Why Complex Life Is Uncommon in the Universe*. New York: Copernicus - Springer.
- Wark, D.Q, and D.T. Hilleary (1969). "Atmospheric Temperature: Successful Test of Remote Probing." *Science* **165**: 1256-58.
- Warren, Bruce A., and Carl Wunsch, Eds. (1981). *Evolution of Physical Oceanography: Scientific Surveys in Honor of Henry Stommel*. Cambridge, MA: MIT Press.

- Warren, Bruce A. (1983). "Why Is No Deep Water Formed in the North Pacific?" *J. Marine Research* **41**: 327-47.
- Warren, Stephen G., and Stephen H. Schneider (1979). "Seasonal Simulation as a Test for Uncertainties in the Parameterization of a Budyko-Sellers Zonal Climate Model." *J. Atmospheric Sciences* **36**: 1377-91.
- Washington, Warren M., et al. (1980). "A General Circulation Experiment with a Coupled Atmosphere, Ocean and Sea Ice Model." *J. Physical Oceanography* **10**: 1887-1908.
- Washington, Warren M., and Gerald A. Meehl (1984). "Seasonal Cycle Experiments on Climate Sensitivity Due to a Doubling of CO₂ with an Atmospheric General Circulation Model Coupled to a Simple Mixed Layer Ocean Model." *J. Geophysical Research* **89 (D6)**: 9475-9503.
- Watson, Robert T., et al. (Eds.) (2001) *The Regional Impacts of Climate Change: An Assessment of Vulnerability. A Special Report of IPCC Working Group II. Summary for Policymakers, 1997*. Cambridge: Cambridge University Press. Online at <http://www.ipcc.ch/pub/reports.htm>
- Weare, B.C., et al. (1974). "Aerosols and Climate: Some Further Considerations." *Science* **186**: 827-28.
- Wear, Spencer R. (1983). "The Discovery of Fission and a Nuclear Physics Paradigm." In *Otto Hahn and the Rise of Nuclear Physics*, edited by William Shea, pp. 91-133. Dordrecht: Reidel.
- Wear, Spencer R. (1988). *Nuclear Fear: A History of Images*. Cambridge, MA: Harvard University Press.
- Wear, Spencer R. (1997). "Global Warming, Cold War, and the Evolution of Research Plans." *Historical Studies in the Physical and Biological Sciences* **27(2)**: 319-56.
- Wear, Spencer R. (1998). *Never at War: Why Democracies Will Not Fight One Another*. New Haven, CT: Yale University Press.
- Wear, Spencer R. (2003). *The Discovery of Global Warming*. Cambridge, MA: Harvard University Press. Translations published in Spanish, Italian, Arabic, Japanese.
- Wear, Spencer R. (2005). "Gallery: Spencer Wear on Depicting Global Warming." *Environmental History* **10**: 770-75.
- Weaver, Andrew J., Claude Hillaire-Marcel (2004). "Global Warming and the Next Ice Age." *Science* **304**: 400-02.
- Webb, G. (1986). "Solar Physics and the Origins of Dendrochronology." *Isis* **77**: 292-301.
- Webb, George E. (2002). *Science in the American Southwest. A Topical History*. Tucson: University of Arizona Press.
- Webb, Thompson, III, and Reid A. Bryson (1972). "Late- and Postglacial Climatic Change in the Northern Midwest, USA: Quantitative Estimates Derived from Fossil Pollen Spectra by Multivariate Statistical Analysis." *Quaternary Research* **2**: 70-115.
- Webb, Thompson, III (1980). "The Reconstruction of Climatic Sequences from Botanical Data." *J. Interdisciplinary History* **10(4)**: 749-72.
- Webb, Thompson, III (1986). "Is Vegetation in Equilibrium with Climate? How to Interpret Late-Quaternary Pollen Data." *Vegetatio (Plant Ecology)* **67**: 75-91 [doi:10.1007/BF00037359].

- Weber, J.N., and P.M.J. Woodhead (1972). "Temperature Dependence of Oxygen-18 Concentrations in Reef Coral Carbonates." *Journal of Geophysical Research* **77**: 463-73.
- Weber, Louis Russell, and H.M. Randall (1932). "The Absorption Spectrum of Water Vapor Beyond 10 μ ." *Physical Review* **40**: 835-47.
- Webster, Paul (2004). "A Eurasian Tiger Threatens to Maul Kyoto." *Science* **303**: 1461-62.
- Webster, P.J., and N.A. Stretten (1978). "Late Quaternary Ice Age Climates of Tropical Australasia: Interpretations and Reconstructions." *Quaternary Research* **10**: 279-309.
- Webster, Peter J. (1984). "The Carbon Dioxide/Climate Controversy: Some Personal Comments on Two Recent Publications." *Climatic Change* **6**: 377-90.
- Webster, P.J., et al. (2005). "Changes in Tropical Cyclone Number, Duration, and Intensity in a Warming Environment." *Science* **309**: 1844-46 [doi: 10.1126/science.1116448].
- Weertman, Johannes (1961). "The Stability of Ice-Age Ice Sheets." *J. Geophysical Research* **66**: 3783-92.
- Weertman, Johannes (1964). "Rate of Growth or Shrinkage of Nonequilibrium Ice Sheets." *J. Glaciology* **38**: 145-58.
- Weertman, Johannes (1974). "Stability of the Junction of an Ice Sheet and an Ice Shelf." *J. Glaciology* **13**: 3-11.
- Weertman, Johannes (1976a). "Milankovitch Solar Radiation Variations and Ice Age Ice Sheet Sizes." *Nature* **261**: 17-20.
- Weertman, Johannes (1976b). "Glaciology's Grand Unsolved Problem." *Nature* **260**: 284-86.
- Weinberg, Alvin (1974). "Global Effects of Man's Production of Energy." *Science* **186**: 205.
- Weiner, Jonathan (1990). *The Next One Hundred Years: Shaping the Fate of Our Living Earth*. New York: Bantam.
- Weingart, Peter, et al. (2000). "Risks of Communication: Discourses on Climate Change in Science, Politics, and the Mass Media." *Public Understanding of Science* **9**: 261-83.
- Weir, Gary E. (2001). *An Ocean in Common. American Naval Officers, Scientists, and the Ocean Environment*. College Station: Texas A&M University Press.
- Weiss, H., et al. (1993). "The Genesis and Collapse of Third Millenium North Mesopotamian Civilization." *Science* **261**: 995-1004.
- Wendland, W.M., and Reid A. Bryson (1974). "Dating Climatic Episodes of the Holocene." *Quaternary Research* **4**: 9-24.
- Wenk, Edward, Jr. (1972). *The Politics of the Ocean*. Seattle: University of Washington Press.
- Wentz, Frank J., and Matthias Schabel (1998). "Effects of Orbital Decay on Satellite-Derived Lower-Tropospheric Temperature Trends." *Nature* **394**: 661-64.
- Wertenbaker, William (1974). *The Floor of the Sea. Maurice Ewing and the Search to Understand the Earth*. Boston: Little, Brown.
- West, R.G. (1961). "Late- and Postglacial Vegetational History in Wisconsin, Particularly Changes Associated with the Valdres Readvance." *American J. Science* **259**: 766-83.
- Wexler, Harry (1952). "Volcanoes and World Climate." *Scientific American*, April, pp. 74-80.
- Wexler, Harry (1953). "Radiation Balance of the Earth as a Factor in Climatic Change." In *Climatic Change*, edited by Harlow Shapley, pp. 73-105. Cambridge, MA: Harvard University Press.
- Wexler, Harry (1956). "Variations in Insolation, General Circulation and Climate." *Tellus* **8**:

- 480-94.
- Weyl, Peter K. (1968). "The Role of the Oceans in Climatic Change: A Theory of the Ice Ages." *Meteorological Monographs* **8**: 37-62.
- White, Frank (1987). *The Overview Effect: Space Exploration and Human Evolution*. Boston: Houghton Mifflin.
- White, James (2005). "Early and Profound Human Impact?" [Review of Took, *Plows, Plagues and Petroleum*.] *Science* **311**, p. 472.
- White, Oran R., Ed. (1977). *The Solar Output and Its Variation*. Boulder, CO: Colorado Associated University Press.
- White, W.H. (1986). "On the Theoretical and Empirical Basis for Apportioning Extinction by Aerosols: A Critical Review." *Atmospheric Environment* **20**: 1659-72.
- Wiener, Norbert (1948). *Cybernetics; or, Control and Communication in the Animal and the Machine*. Cambridge, MA: Technology Press.
- Wiener, Norbert (1956a). "Nonlinear Prediction and Dynamics." In *Proceedings of the Third Berkeley Symposium on Mathematical Statistics and Probability*, edited by Jerzey Neyman, Vol. **3**, pp. 247-52. Berkeley: University of California Press.
- Wiener, Norbert (1956b). *I Am a Mathematician, the Later Life of a Prodigy*. Garden City, NY: Doubleday.
- Wigley, Tom M. L., and P.M. Kelly (1990). "Holocene Climatic Change, 14c Wiggles and Variations in Solar Irradiance." *Philosophical Transactions of the Royal Society of Lond.* **A330**: 547-560.
- Wigley, Tom M. L. (1994). "Outlook Becoming hazier." *Nature* **369**: 709-10.
- Wigley, Tom M.L., et al. (1986). "Warm World Scenarios and the Detection of Climatic Change Induced by Radiatively Active Gases." In *The Greenhouse Effect, Climatic Change, and Ecosystems. SCOPE Report No. 29*, edited by Bert Bolin et al., pp. 271-322. Chichester: John Wiley.
- Wigley, Tom M.L., and S.C.B. Raper (1987). "Thermal Expansion of Sea Water Associated with Global Warming." *Nature* **330**: 127-31.
- Wigley, Tom M.L. (2005). "The Climate Change Commitment." *Science* **307**: 1766-69.
- Wigley, Tom M.L. (2006). "A Combined Mitigation/Geoengineering Approach to Climate Stabilization." *Science* **314**: 452-54 [doi: 10.1126/science.1131728].
- Wilcox, J. M., et al. (1973). "Solar Magnetic Sector Structure: Relation to Circulation in the Earth's Atmosphere." *Science* **180**: 185-86.
- Wild, Martin, et al. (2005). "From Dimming to Brightening: Decadal Changes in Solar Radiation at Earth's Surface." *Science* **308**: 847-50.
- Wildt, Rupert (1940). "Note on the Surface Temperature of Venus." *Astrophysical J.* **91**: 266-68.
- Wilkins, Lee, and Philip Patterson (1991). "Science as Symbol: The Media Chills the Greenhouse Effect." In *Risky Business: Communicating Issues of Science, Risk, and Public Policy*, edited by Lee Wilkins and Philip Patterson, pp. 159-76. New York: Greenwood.
- Wilkins, Lee (1993). "Between Facts and Values: Print Media Coverage of the Greenhouse Effect, 1987-1990." *Public Understanding of Science* **2**(2): 71-84.
- Willett, H.C. (1949). "Long-Period Fluctuations of the General Circulation of the Atmosphere."

- J. Meteorology* **6**(34-50).
- Willett, H.C. (1950). "Temperature Trends of the Past Century." In *Royal Meteorological Society Centenary Proceedings* pp. 195-206. London: Royal Meteorological Society.
- Willis, Josh K., et al. (2007 - submitted). "Correction to 'Recent Cooling of the Upper Ocean'." *Geophysical Research Letters*.
- Willson, Richard C., et al. (1981). "Observations of Solar Irradiance Variability." *Science* **211**: 700-702.
- Willson, Richard C., and H.S. Hudson (1988). "Solar Luminosity Variations in Solar Cycle 21." *Nature* **332**: 810-12.
- Willson, Richard C. (1997). "Total Solar Irradiance Trend During Solar Cycles 21 and 22." *Science* **277**: 1963-65.
- Willson, Richard C., and Alexander V. Mordvinov (2003). "Secular Total Solar Irradiance Trend During Solar Cycles 21-23." *Geophysical Research Letters* **30**: 1199-1202.
- Wilson, Alex T. (1964). "Origin of Ice Ages: An Ice Shelf Theory for Pleistocene Glaciation." *Nature* **201**: 147-49.
- Wilson, Alex T. (1966). "Variation in Solar Insolation to the South Polar Region as a Trigger Which Induces Instability in the Antarctic Ice Sheet." *Nature* **210**: 477-78.
- Wilson, Alex T. (1969). "The Climatic Effects of Large-Scale Surges of Ice Sheets." *Canadian J. Earth Sciences* **6**: 911-18.
- Wilson, C. T. R. (1899). "On the Condensation Nuclei Produced in Gases by the Action of Roentgen Rays, Uranium Rays, Ultra-Violet Light, and Other Agents." *Proceedings of the Royal Society of London* **64**: 127-29.
- Wilson, C.A., and J.F.B. Mitchell (1987). "A Doubled CO₂ Climate Sensitivity Experiment with a Global Climate Model Including a Simple Ocean." *J. Geophysical Research* **92**: 13315-13343.
- Wilson, Carroll L., and William H. Matthews, Eds. (1971). *Inadvertent Climate Modification. Report of Conference, Study of Man's Impact on Climate (SMIC), Stockholm*. Cambridge, MA: MIT Press.
- Wilson, K.M. (1995). "Mass Media as Sources of Global Warming Knowledge." *Mass. Comm. Review* **22**: 75-89.
- Wilson, K.M. (2000). "Drought, Debate, and Uncertainty: Measuring Reporters' Knowledge and Ignorance About Climate Change." *Public Understanding of Science* **9**: 1-13.
- Witze, Alexandra (2006). "Temperatures Flare at Hurricane Meeting." *Nature* **441**: 11.
- Winograd, Isaac J., et al. (1992). "Continuous 500,000-Year Climate Record from Vein Calcite in Devils Hole, Nevada." *Science* **258**: 255-60.
- WMO (World Meteorological Organization) (1975). *Proceedings of the WMO/IAMAP Symposium on Long-Term Climatic Fluctuations, Norwich, Aug. 1975 (WMO Doc. 421)*. Geneva: World Meteorological Organization.
- WMO (World Meteorological Organization) (1986). *Report of the International Conference on the Assessment of the Role of Carbon Dioxide and of Other Greenhouse Gases in Climate Variations and Associated Impacts, Villach, Austria, October 1985 (WMO Doc. 661)*. Geneva: WMO/UNEP/ICSU.
- WMO (World Meteorological Organization) (1989). *The Changing Atmosphere: Implications for*

- Global Security, Toronto, Canada, 27-30 June 1988: Conference Proceedings.* Geneva: Secretariat of the World Meteorological Organization.
- Woillard, Geneviève M., and Willem G. Mook (1982). "Carbon-14 Dates at Grande Pile: Correlation of Land and Sea Chronologies." *Science* **215**: 159-61.
- Wolbach, W.S., et al. (1985). "Cretaceous Extinctions: Evidence for Wildfire and Search for Meteoritic Material." *Science* **230**: 167-70.
- Wolkomir, Richard (1976). "Is a New Ice Age Coming?" *Saturday Evening Post*, March, pp. 50-51,78.
- Wollin, Goesta, et al. (1971). "Variations in Magnetic Intensity and Climate Changes." *Nature* **232**: 549-51.
- Wood, R.W. (1909). "Note on Theory of the Greenhouse." *Philosophical Magazine ser. 6 Vol. 17*: 319-20.
- Wood, Richard A., et al. (1999). "Changing Spatial Structure of the Thermohaline Circulation in Response to Atmospheric CO₂ Forcing in a Climate Model." *Nature* **399**: 572-75.
- Woodwell, George M, et al. (1983). "Global Deforestation: Contribution to Atmospheric Carbon Dioxide." *Science* **222**: 1081-86.
- Woodwell, George M., and R.A. Houghton (1977). "Biotic Influences on the World Carbon Budget." In *Global Chemical Cycles and Their Alterations by Man (Report of Dahlem Workshop, Berlin, Nov. 1976)*, edited by Werner Stumm, pp. 61-72. Berlin: Abakon.
- Woodwell, George M. (1978). "The Carbon Dioxide Question." *Scientific American*, Jan., pp. 34-43.
- Woodwell, George M., et al. (1978). "The Biota and the World Carbon Budget." *Science* **199**: 141-46.
- Woodwell, George M. (1991). "Forests in a Warming World: A Time for New Policies." *Climatic Change* **19**: 245-51.
- World Meteorological Organization *see* WMO
- Woronko, S.F. (1977). "Comments on "a Non-Equilibrium Model of Hemispheric Mean Surface Temperature"." *Journal of Atmospheric Science* **34**: 1820-21.
- Worthington, L.V. (1954). "A Preliminary Note on Th Time Scale in North Atlantic Circulation." *Deep-Sea Research* **1**: 244-51.
- Worthington, L.V. (1968). "Genesis and Evolution of Water Masses." *Meteorological Monographs* **8**: 63-67.
- Wu, Man-Chi, et al. (2006). "Trends in Western North Pacific Tropical Cyclone Intensity." *Eos, Transactions of the American Geophysical Union* **87**: 537-38.
- Wunsch, Carl (1981). "Low-Frequency Variability of the Sea." In *Evolution of Physical Oceanography: Scientific Surveys in Honor of Henry Stommel*, edited by Bruce A. Warren and Carl Wunsch, pp. 342-74. Cambridge, MA: MIT Press.
- Yoder, Hatten S., Jr. (1997). *Planned Invasion of Japan, 1945: The Siberian Weather Advantage (Memoirs of the American Philosophical Society, 223)*. Philadelphia: American Philosophical Society.
- Young, A.T. (1973). "Are the Clouds of Venus Sulfuric Acid?" *Icarus* **18**: 564-82.
- Young, C.A. (1895). *The Sun*. Akron, Ohio: Werner.
- Young, N.W. (1979). "Responses of Ice Sheets to Environmental Changes." In *Sea Level, Ice*

- and Climatic Change. Proceedings of the Symposium... 7-8 December 1979*, edited by Ian Allison, pp. 331-60. Washington, DC: International Association of Hydrological Sciences, publication no. 131.
- Young, William R. (2000). "The Future of Physical Oceanography." In *Fifty Years of Ocean Discovery. National Science Foundation 1950-2000*, edited by Ocean Studies Board National Research Council, pp. 165-71. Washington, DC: National Academy Press.
- Zelazny, Roger (1969). *Damnation Alley*. New York: Putnam.
- Zeng, Ning (2003). "Drought in the Sahel." *Science* **302**: 999-1000.
- Zeuner, F.E. (1946 [4th ed., 1958]). *Dating the Past*. London: Methuen.
- Zielinski, Sarah (2007). "IPCC: How It Happens." *Eos, Transactions of the American Geophysical Union* **88**: 210.
- Ziman, John, Ed. (2000). *Technological Innovation as an Evolutionary Process*. Cambridge: Cambridge University Press.
- Zimmerman, P.R., et al. (1982). "Termites: A Potentially Large Source of Atmospheric Methane, Carbon Dioxide, and Molecular Hydrogen." *Science* **218**: 563-65.
- Zubakov, V.A., and I.I. Borzenkova (1990). *Global Palaeoclimate of the Late Cenozoic*. Amsterdam: Elsevier.
- Zwally, H. Jay, et al. (2002). "Surface Melt-Induced Acceleration of Greenland Ice-Sheet Flow." *Science* **297**: 218-22 [doi: 10.1126/science.1072708].
- Zwally, H.J., et al. (2005). "Mass Changes of the Greenland and Antarctic Ice Sheets and Shelves and Contributions to Sea-Level Rise: 1992-2002." *Journal of Glaciology* **51**: 509-27.