

---

## Chapter 8    References

- Abt Associates Inc. 2001. Social costs of air pollution-related adverse health effects from on-highway motor vehicles. Prepared for the U.S. Environmental Protection Agency, November.
- ACIA (Arctic Climate Impact Assessment). 2004. Impacts of a Warming Arctic: Arctic Climate Impact Assessment. Cambridge University Press, 139 pp. <http://www.acia.uaf.edu/>.
- ACIA (Arctic Climate Impact Assessment). 2005. Arctic Climate Impact Assessment. Cambridge University Press, Cambridge, 1042 pp.
- Adar, S.D., and Kaufman, J.D. 2007. Cardiovascular disease and air pollutants: Evaluating and improving epidemiological data implicating traffic exposure. *Inhalation Toxicology* 19 (Suppl. 1): 135–149.
- Adger, W., Hughes, T., Folke, C., Carpenter, S., and Rockstrom, J. 2005. Social-ecological resilience to coastal disasters. *Science* 309: 1036–1039.
- Ahren, M.J., Kovatis, R.S., Wilkinson, P., Few, R., and Mattheis, F. 2005. Global health impacts of floods: epidemiological evidence. *Epidemiol. Rev.* 27: 36–45.
- Ainsworth, E.A., and Long, S.P. 2005. What have we learned from 15 years of free-air CO<sub>2</sub> enrichment (FACE)? A meta-analytic review of the responses of photosynthesis, canopy properties and plant production to rising CO<sub>2</sub>. *New Phytol.* 165(2): 351–371.
- Alexander, M.A., and Eischeid, J.K. 2001. Climate variability in regions of amphibian declines. *J. Coastal Res.* 3: 511–529.
- Allan, R.P., and Soden, B.J. 2008. Atmospheric warming and the amplification of precipitation extremes. *Science* doi:10.1126/science.1160787. August 7.
- Alley, R.B., T. Bernsten, N.L. Bindoff, Z. Chen. A. Chidthaisong, P. Friedlingstein, J.M. Greogory, G.C. Hegerl, M. Heimann, B. Hewitson, B.J. Hoskins, F. Joos, J. Jouzel, V. Kattsov, U. Lohmann, M. Manning, T. Matsuno, M. Molina, N. Nicholls, J. Overpeck, D. Qin, G. Raga, V. Ramaswamy, J. Ren, M. Rusticucci, S. Solomon, R. Somerville, T.F. Stocker, P. A. Stott, R. J. Stouffer, P. Whetton, R.A. Wood, and D. Wratt. 2007: Summary for Policy Makers. In: *Climate Change 2007: the Physical Science Basis, Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor, and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Alley, R.B., Clark, P., Huybrechts, P., and Joughin, I. 2005. Ice-sheet and sea-level changes. *Science* 310 (5747): 456-460.
- Allison, E.H., W.N. Adger, M.C. Badjeck, K. Brown, D. Conway, N.K. Dulvy, A. Halls, A. Perry, and J.D. Reynolds. 2005. Effects of Climate Change on the Sustainability of Capture and Enhancement Fisheries Important to the Poor: Analysis of the Vulnerability and Adaptability of Fisherfolk Living in Poverty. Final Technical Report, Project No. R4778J, Fisheries Management Science Programme, MRAG for Department for International Development, London, 167 pp. [www.fmsp.org.uk/Documents/r4778j/R4778J\\_FTR1.pdf](http://www.fmsp.org.uk/Documents/r4778j/R4778J_FTR1.pdf).

- Alvarez, E., de Pablo, R., Tomas, C., and Rivas, L. 2000. Spatial and temporal variability of ground-level ozone in Castilla-Leon (Spain). *Int. J. Biometeorol.* 44: 44–51.
- American Academy of Pediatrics, Committee on Environmental Health. 2007. Global climate change and children's health. *Pediatrics* 120(5): 1149–1152.
- American Lung Association. 2008. Protect the Air You Breathe. State of the Air. <http://www.lungusa2.org/sota/SOTA2008.pdf>.
- American Petroleum Institute. 2000. Overview of Exploration and Production Waste Volumes and Waste Management Practices in the United States. <http://www.api.org/aboutoilgas/sectors/explore/waste-management.cfm>.
- AMS (American Meteorological Society). 2004. Weather and Highways Report of a Policy Forum Developed by the Atmospheric Policy Program American Meteorological Society. <http://www.ametsoc.org/atmospolicy/documents/WxHighwaysFinalReport.pdf>.
- Anderson, P., J. Brownstein, U. Confalonieri, D. Causey, N. Chan, K.L. Ebi, J.H. Epstein, J.S. Greene, R. Hayes, E. Hofmann, L.S. Kalkstein, T. Kjellstrom, R. Lincoln, A.J. McMichael, C. McNeill, D. Mills, A. Milne, A.D. Perrin, G. Ranmuthugala, C. Rogers, C. Rosenzweig, C. L. Soskolne, G. Tabor, M. Vicarelli, X.B. Yang. 2005. Climate Change Futures: Health, Ecological and Economic Dimensions. The Center for Health and the Global Environment, Harvard Medical School.
- Andrey, J., and Mills, B.N. 2003. Climate change and the Canadian transportation system: Vulnerabilities and adaptations. Weather and Transportation in Canada. Andrey, J., and Knapper, C. J. (Editors), Department of Geography Publication Series 55, University of Waterloo, Waterloo, Ontario, pp. 235–279.
- Anisimov, O.A., Vaughan, D.G., Callaghan, T.V., Furgal, C. Marchant, H., Prowse, T.D., Vilhjálmsson, H., and Walsh, J.E. 2007. Polar regions (Arctic and Antarctic). In: IPCC, 2007. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson, (Eds.), Cambridge University Press, Cambridge, UK, pp. 653–686.
- Anon. 2006. Bluetongue confirmed in France. News and Reports. *Veterinary Record* 159: 331.
- Ansmann, A., Bosenberg, J., Chaikovsky, A., Comeron, A., Eckhardt, S., Eixmann, R., Freudenthaler, V., Ginoux, P., Komguem, L., Limme, H., Marquez, M.A.L., Sauvage, V., Sobolewsky, P., Srivastava, M.K., Stohl, A., Torres, O., Vaughan, G., Wandinger, U., and Wiegner, M. 2003. Long-range transport of Saharan dust to northern Europe: the 11-16 October 2001 outbreak observed with EARLINET. *Journal of Geophysical Research – Atmospheres* 108: 4783.
- Argonne. 2002. The Greenhouse Gas and Regulated Emissions from Transportation (GREET) Model. Version 1.8a, Argonne National Laboratories, February 2002. <http://www.transportation.anl.gov/software/GREET/index.html>.
- Arnell, N. 2002. *Hydrology and Global Environmental Change: Understanding Global Environmental Change*. Pearson Education Ltd, Edinburgh, United Kingdom. 364 pp.

- Arnell, N.W., C. Liu, R. Compagnucci, L. da Cunha, K. Hanaki, C. Howe, G. Mailu, I. Shiklomanov, and E. Stakhiv. 2001. Hydrology and water resources. *Climate Change 2001: Impacts, Adaptation and Vulnerability. Contributions of Working Group II to the Third Assessment Report of the Intergovernmental Panel on Climate Change*, J.J. McCarthy, O.F. Canziani, N.A. Leary, D.J. Dokken, and K.S. White, Eds., Cambridge University Press, Cambridge, pp. 191-234.
- Aucott, M., and Caldarelli, A. 2006. Climate Change Trends in New Jersey: Trends in Temperature and Sea Level. New Jersey Department of Environmental Protection.
- Ausubel, J.H., and H.D. Langford (eds.). 1997. Technological Trajectories and the Human Environment. National Academy of Engineering, Washington, D.C.
- Aw, J., and Kleeman, M.J. 2003. Evaluating the first-order effect of inter-annual temperature variability on urban air pollution. *Journal of Geophysical Research* 108: 7-1-7-18.
- AWWA (American Water Works Association). 2006. Optimizing Filtration Operations. CD-ROM catalogue no. 64275. <http://www.awwa.org/bookstore>.
- Bachelet, D., Neilson, R.P., Lenihan, J.M., and Drapek, R.J. 2001. Climate change effects on vegetation distribution and carbon budget in the United States. *Ecosystems* 4: 164-185.
- Bachelet, D., Neilson, R.P., Lenihan, J.M., and Drapek, R.J. 2004. Regional differences in the carbon source-sink potential of natural vegetation in the U.S.A. *Environmental Management* 33: S23-S43, doi:10.1007/s00267-003-9115-4.
- Bailey, R.G. 1980. Description of the ecoregions of the United States. U.S. Department of Agriculture, Miscellaneous Publication No. 1391, 77 pp.
- Baker, T.R., Phillips, O.L., Malhi, Y., Almeida, S., Arroyo, L., DiFiore, A., Erwin, T., Higuchi, N., Killeen, T.J., Laurance, S.G., Laurance, W.F., Lewis, S.L., Monteagudo, A., Neill, D.A., Vargas, P.N., Pitman, N.C.A., Silva, J.N.M., and Martinez, R.V. 2004. Increasing biomass in Amazonian forest plots. *Philos. T. Roy. Soc. Lond. B* 359: 353-365.
- Barber, R. 2001. Upwelling ecosystems. In: *Encyclopedia of Ocean Sciences*, Steele, J. H., Thorpe, S. A., and Turekian, K. K. (Eds.), Academic Press, London, pp. 3128.
- Barnet, J., and N. Adger. 2003. Climate Dangers and Atoll Countries, *Climatic Change* 61(3): 321-337.
- Barnett, T.P., J.C. Adam, and D.P. Lettenmaier. 2005. Potential impacts of a warming climate on water availability in snow-dominated regions. *Nature* 438: 303-309.
- Barnett, T.P., and Pierce, D.W. 2008. When will Lake Mead go dry? *Water Resources Research* 10: 1029/R006704.
- Barnett, T.P., D.W. Pierce, H.G. Hidalgo, C. Bonfils, B.D. Santer, T. Das, G. Bala, A.W. Wood, T. Nozawa, A.A. Mirin, D.R. Cayan, and M.D. Dettinger. 2008. Human-induced changes in the hydrology of the western United States. *Science* 319: 1080-1083.
- Bartholow, J.M. 2005. Recent water temperature trends in the Lower Klamath River, California. *Journal of Fisheries Management* 25: 152-162.

- Basu, R., Dominici, F., and Samet, J.M. 2005. Temperature and mortality among the elderly in the United States: a comparison of epidemiologic methods. *Epidemiology* 16(1): 58–66.
- Bates, D.V. 2005. Ambient ozone and mortality. *Epidemiology* 16(4): 427–429.
- Baum, E. 2001. Unfinished Business: Why the Acid Rain Problem is not Solved. Clean Air Task Force, Boston, MA  
[http://eastonsd.org/eahs/fileadmin/eahs/academics/science/Clean air task force on acid rain.pdf](http://eastonsd.org/eahs/fileadmin/eahs/academics/science/Clean_air_task_force_on_acid_rain.pdf).
- Beaugrand, G. 2004. The North Sea regime shift: evidence, causes, mechanisms and consequences. *Progress in Oceanography* 60: 245–262.
- Beaugrand, G., Reid, P.C., Ibanez, F., Lindley, J.A., and Edwards, M. 2002. Reorganization of North Atlantic marine copepod biodiversity and climate. *Science* 296: 1692–1694.
- Beever, E.A., Brussard, P.F., and Berger, J. 2003. Patterns of apparent extirpation among isolated populations of pikas (*Ochotona princeps*) in the Great Basin. *Journal of Mammology* 84: 37–54.
- Beggs, P.J. 2004. Impacts of climate change on aeroallergens: past and future. *Clinical and Experimental Allergy* 34: 1507–1513.
- Beggs, P.J., and Bambrick, H.J. 2005. Is the global rise of asthma an early impact of anthropogenic climate change? *Environmental Health Perspectives* 113: 915–919.
- Bélanger, G., Rochette, P., Castonguay, Y., Bootsma, A., Mongrain, D., and Ryand, A.J. 2002. Climate change and winter survival of perennial forage crops in Eastern Canada. *Agron. J.* 94: 1120–1130.
- Bell, M.L., Peng, R.D., and Dominici, F. 2006. The exposure-response curve for ozone and risk of mortality and the adequacy of current ozone regulations. *Environmental Health Perspectives* 114: 532–536.
- Bell, M.L., Peng, R.D., Dominici, F., and Samet, J.M. 2005. A meta-analysis of time-series studies of ozone and mortality with comparison to the national morbidity, mortality, and air pollution study. *Epidemiology* 16: 436–445.
- Benetiz, T.A., Rodriguez, A., and Sojo, M. 2004. Descripción de un brote epidémico de malaria de altura en un área originalmente sin malaria del Estado Trujillo, Venezuela. *Boletín de Malariología y Salud Ambiental* 44: 999.
- Benson, C., and E. Clay. 2003. Disasters, vulnerability, and the global economy. Building Safer Cities: The Future of Disaster Risk, A. Kreimer, M. Arnold and A. Carlin (Eds.). Disaster Risk Management Series No. 3, World Bank, Washington, District of Columbia, pp. 3-32.
- Berthelot, M., P. Fridlingstein, P. Ciais, P. Monfray, J.L. Dufresne, H. Le Treut, and L. Fairhead. 2002. Global response of the terrestrial biosphere to CO<sub>2</sub> and climate change using a coupled climate-carbon cycle model. *Global Biogeochem. Cycles* 16: 1084.

- Bertrand, M.R., and Wilson, M.L. 1996. Microclimate-dependent survival of unfed adult *Ixodes scapularis* (acari: Ixodidae) in nature: life cycle and study design implications. *Journal of Medical Entomology* 33: 619–627.
- Betts, R.A., O. Boucher, M. Collins, P.M. Cox, P.D. Falloon, N. Gedney, D.L. Hemming, C. Huntingford, C.D., Jones, D.M.H. Sexton, and M.J. Webb. 2007. Projected increase in continental runoff due to plant responses to increasing carbon dioxide. *Nature* 448: 1037-1041 doi: 10.1038/nature06045.
- Bhatt, V., J. Eckmann, W.C. Horak, and T.J. Wilbanks. 2007. *Possible indirect effects on energy production and distribution in the United States*. Effects of Climate Change on Energy Production and Use in the United States. A Report by the U.S. Climate Change Science Program and the subcommittee on Global Change Research. Washington, DC. (SAP 4.5)
- Bindoff, N.L., Willebrand, J., Artale, V., Cazenave, A., Gregory, J., Gulev, S., Hanawa, K., Le Quéré, C., Levitus, S., Nojiri, Y., Shum, C.K., Talley, L.D., and Unnikrishnan, A. 2007. Observations: Oceanic climate change and sea level. In, Solomon, S., Qin, D., Manning, M., Chen, Z., Marquis, M., Averyt, K.B., Tignor, M., and Miller, H.L. (Eds.) *Climate Change 2007: The Physical Science Basis: Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge, UK, Cambridge University Press, 385-433.
- Black, H., 2008. The mighty microbe. Some scientists fear CO<sub>2</sub>-spewing bacteria will speed global warming. *Journal Sentinal*, March 16. <http://www.jsonline.com/story/index.aspx?id=728254>.
- Blaikie, P., Cannon, T., Davis, I., and Wsiner, B. 1994. At Risk: Natural Hazards, People's Vulnerability and Disasters, 2<sup>nd</sup> ed., Routledge, New York, 320 pp.
- BNL (Brookhaven National Laboratory). 2007: Elevated Carbon Dioxide Changes Soil Microbe Mix Below Plants. December, 19. Brookhaven National Laboratory News. [http://www.bnl.gov/bnlweb/pubaf/pr/PR\\_display.asp?prID=07-121](http://www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=07-121).
- Bobba, A., V. Singh, R. Berndtsson, and L. Bengtsson. 2000. Numerical simulation of saltwater intrusion into Laccadive Island aquifers due to climate change. *J. Geol. Soc. India* 55: 589–612.
- Bobbink, R., Hornung, M., and Roelofs, J.G.M. 1998. The effects of air-borne nitrogen pollutants on species diversity in natural and semi-natural European vegetation. *Journal of Ecology* 86(5): 717–738.
- Bond, T.C., D.G Streets, K.F. Yarber, S.M. Nelson, J-H. Woo, and Z. Klimont. 2004. A technology-based global inventory of black and organic carbon emissions from combustion. *J. Geophys. Res.* 109, D14203, doi:10.1029/2003JD003697.
- Bond, W.J., and J.E. Keeley. 2005. Fire as a global 'herbivore': the ecology and evolution of flammable ecosystems. *Trends in Ecology and Evolution* 20(7): 387–394.
- Borasin, S., S. Foster, K. Jobartehm N. Link, J. Miranda, E. Pomeranse, J. Rabke-Verani, D. Reyes, J. Selber, S. Sodha and P. Somaia. 2002. Oil: A Life Cycle Analysis of its Health and Environmental Impacts. Epstein, P.R., and Selber, J. (Eds.). The Center for Health and the Global Environment, Harvard U, Boston, MA.

- Bouma, M.J., and Pascual, M. 2001. Seasonal and interannual cycles of endemic cholera in Bengal 1891-1940 in relation to climate and geography. *Hydrobiologia* 460: 147–56.
- Borenstein, S., and D. Joling. 2008. “Arctic Sea Ice Drops to 2nd Lowest Level on Record.” Associated Press article. August 27, 2008.
- Boyer, J.S. 1995. Biochemical and biophysical aspects of water deficits and the predisposition to disease. *Annu. Rev. Phytopathol.* 33: 251–274.
- Brander, K.M. 2005. Cod recruitment is strongly affected by climate when stock biomass is low. *ICES Journal of Marine Science* 62: 339–343.
- Breshears, D.D., Cobb, N.S., Rich, P.M., Price, K.P., Allen, C.D., Balice, R.G., Romme, W.H., Kastens, J.H., Floyd, M.L., Belnap, J., Anderson, J.J., Myers, O.B., and Meyer, C.W. 2005. Regional vegetation die-off in response to global-change-type drought. *Proceedings of the National Academy of Sciences, USA* 102: 15144–15148.
- Brown, J.L., Liand, S.H., and Bhagabati, B. 1999. Long-term trend toward earlier breeding in an American bird: A response to global warming? *Proceedings of the National Academy of Sciences* 96: 5565–5569.
- Brown, T.J., Hall, B.L., and Westerling, A.L. 2004. The impact of twenty-first century climate change on wildland fire danger in the western United States: an applications perspective. *Climatic Change* 62: 365–388.
- Bruinsma, J. 2003. World Agriculture: Towards 2015/2030: An FAO perspective. Earthscan, London and FAO, Rome, London. 432 pp.
- Bryant, D., Burke, L., McManus, J., and Spalding, M. 1998. Reefs at Risk: A Map-Based Indicator of Threats to the World's Coral Reefs. Washington, DC: WRI. <http://pdf.wri.org/reefs.pdf>.
- Buchanan, C.M., Beverland, I.J., and Heal, M.R. 2002. The influence of weather-type and long-range transport on airborne particle concentrations in Edinburgh, UK. *Atmos. Environ.* 36: 5343–5354.
- Bull, S.R., Bilello, D.E., Ekmann, J., Sale, M.J., and Schmalzer, D.K. 2007. Effects of climate change on energy production and distribution in the United States. Chapter 3, In: Effects of Climate Change on Energy Production and Use in the United States. A Report by the U.S. Climate Change Science Program and the subcommittee on Global Change Research. Washington, DC. (SAP 4.5)
- Bunkley, N. 2008. Highly Rated Auto Plants Set to Close. <http://www.nytimes.com/2008/06/06/business/06auto.html?ref=business>.
- Burke, L., Kura, Y., Kassem, K., Revenga, C., Spalding, M., and McAllister, D. 2001. Pilot Analysis of Global Ecosystems. Coastal Ecosystems. Washington, DC. WRI. [http://pdf.wri.org/page\\_coastal.pdf](http://pdf.wri.org/page_coastal.pdf).
- Burke, E.J., S.J. Brown, and M. Christidis. 2006. Modeling the recent evolution of global drought and projections for the 21<sup>st</sup> Century with the Hadley Centre Climate Model. *J. Hydrometeorol.* 7: 113-1125.

- Burrowes, P.A., Joglar, R.L., and Green, D.E. 2004. Potential causes for amphibian declines in Puerto Rico. *Herpetologica* 60: 141–154.
- Bush, M.B., Silman, M.R., and Urrego D.H. 2004. 48,000 years of climate and forest change in a biodiversity hot spot. *Science* 303: 827–829.
- Butler, C. 2003. The disproportionate effect of climate change on the arrival dates of short distance migrant birds. *Ibis* 145: 484–495.
- California Energy Commission. 2006. Our Changing Climate: Assessing the Risks to California. <http://www.energy.ca.gov/2006publications/CEC-500-2006-077/CEC-500-2006-077.PDF>.
- California Environmental Protection Agency. 2006. Climate Action Team Report to the Governor and Legislature, 110 pp.
- California Environmental Resources Evaluation System. 2000. <http://ceres.ca.gov/ceres/calweb/coastal/wetlands.html>.
- Campbell-Lendrum, D., Pruss-Ustun, A., and Corvalan, C. 2003. How much disease could climate change cause? In: *Climate Change and Human Health: Risks and Responses*, McMichael, A., Campbell-Lendrum, D., Corvalan, C., Ebi, K., Githeko, A., Scheraga, J., and Woodward, A. (Eds.), WHO/WMO/UNEP, Geneva, pp. 113–159.
- CARB (California Air Resources Board). 2007. Technical support document proposed regulations for commercial harbor craft. California Air Resources Board. Stationary Source Division. Emissions Assessment Branch. September. Appendix F, Non-Cancer Health Risk.
- Carbone, G.J., Kiechle, W., Locke, L., Mearns, L.O., McDaniel, L., and Downton, M.W. 2003. Response of soybean and sorghum to varying spatial scales of climate change scenarios in the southeastern United States. *Climatic Change* 60: 73–98.
- Carpenter, K., M. Abrar, G. Aeby, R. Aronson, S. Banks, A. Bruckner, A. Chiriboga, J. Cortes, J. Delbeek, L. DeVantier, G. Edgar, A. Edwards, D. Fenner, H. Guzman, B. Hoeksema, G. Hodgson, O. Johan, W. Licuanan, S. Livingstone, E. Lovell, J. Moore, D. Obura, D. Ochavillo, B. Polidoro, W. Precht, M. Quibilan, C. Reboton, Z. Richards, A. Rogers, J. Sanciangco, A. Sheppard, C. Sheppard, J. Smith, S. Stuart, E. Turak, J. Veron, C. Wallace, E. Weil, and E. Wood. 2008. One-third of reef-building corals face elevated extinction risk from climate change, and local impacts. *Science* doi: 10.1126/science.1159196. July 25, pp. 560–563.
- Carroll, A.S. Taylor, J. Régnière, L. Safranyik. 2004. Effects of climate change on range expansions by the mountain pine beetle in British Columbia, pp. 223–232. In: T.L. Shore, J.E. Brooks, and J.E. Stone (Eds.) *Mountain Pine Beetle Symposium: Challenges and Solutions*. October 30–31, 2003, Kelowna, British Columbia. Natural Resources Canada, Canadian Forest Service, Pacific Forestry Centre, Information Report BC-X-399, Victoria, BC. 298 pp.
- Carson, C., Hajat, S., Armstrong, B., and Wilkinson, P. 2006. Declining vulnerability to temperature-related mortality in London over the 20th century. *American Journal of Epidemiology* 164(1): 77–84.

- Carter, T.R., R.N. Jones, X. Lu, S. Bhadwal, C. Conde, L.O. Mearns, B.C. O'Neill, M.D.A. Rounsevell, and M.B. Zurek. 2007. New Assessment Methods and the Characterisation of Future Conditions. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, pp. 133–171.
- Casola, J.H.; Kay, J.E.; Snover, A.K.; Norheim, R.A.; Whitely Binder, L.C. 2005. Climate impacts on Washington's hydropower, water supply, forests, fish, and agriculture. The Climate Impacts Group. A report prepared for King County (Washington) by the Climate Impacts Group (Center for Science in the Earth System, Joint Institute for the Study of the Atmosphere and Ocean, University of Washington, Seattle). 43 pp.
- Cayan, D., Bromirski, P., Hayhoe, K., Tyree, M., Dettinger, M., and Flick, R. 2006. Projecting Future Sea Level. California Climate Change Center. CEC-500-2005-202-SF. 64 pp.  
<http://www.energy.ca.gov/2005publications/CEC-500-2005-202/CEC-500-2005-202-SF.PDF>
- Cayan, D.R., Kammerdiener, S., Dettinger, M.D., Caprio, J.M., and Peterson, D.H. 2001. Changes in the onset of spring in the western United States. *Bulletin of the American Meteorological Society* 82: 399–415.
- CCSP (U.S. Climate Change Science Program). 2000. Climate Change Impacts on the United States: The Potential Consequences of Climate Variability and Change, National Assessment Synthesis Team, U. S. Global Change Research Program, Washington, DC, USA.
- CCSP (U.S. Climate Change Science Program). 2008a. *Preliminary review of adaptation options for climate-sensitive ecosystems and resources*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. [Julius, S.H., J.M. West (eds.), J.S. Baron, L.A. Joyce, P. Kareiva, B.D. Keller, M.A. Palmer, C.H. Peterson, and J.M. Scott (Authors)]. U.S. Environmental Protection Agency, Washington, DC, USA, 873 pp. Science and Assessment Product 4.4.
- CCSP (U.S. Climate Change Science Program). 2008b. *Impacts of Climate Change and Variability on Transportation Systems and Infrastructure: Gulf Coast Study, Phase I*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research [Savonis, M. J., V.R. Burkett, and J.R. Potter (eds.)]. Department of Transportation, Washington, DC, USA, 445 pp. Science and Assessment Product 4.7.
- CCSP (U.S. Climate Change Science Program). 2008c. *The effects of climate change on agriculture, land resources, water resources, and biodiversity*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. Backlund, P., A. Janetos, D. Schimel, J. Hatfield, K. Boote, P. Fay, L. Hahn, C. Izaurralde, B.A. Kimball, T. Mader, J. Morgan, D. Ort, W. Polley, A. Thomson, D. Wolfe, M.G. Ryan, S.R. Archer, R. Birdsey, C. Dahm, L. Heath, J. Hicke, D. Hollinger, T. Huxman, G. Okin, R. Oren, J. Randerson, W. Schlesinger, D. Lettenmaier, D. Major, L. Poff, S. Running, L. Hansen, D. Inouye, B.P. Kelly, L. Meyerson, B. Peterson, R. Shaw. U.S. Environmental Protection Agency, Washington, DC, USA, 362 pp. Science and Assessment Product 4.3.



- CCSP (U.S. Climate Change Science Program). 2008d. Draft: Unified Synthesis Product Global Climate Change Impacts in the United States. First Draft, July 2008.  
<http://www.climatechange.gov/Library/sap/usp/public-review-draft/usp-prd-all.pdf>.
- CCSP (U.S. Climate Change Science Program). 2008e. *Weather and Climate Extremes in a Changing Climate. Regions of Focus: North America, Hawaii, Caribbean, and U.S. Pacific Islands*. A Report by the U.S. Climate Change Science Program and Subcommittee on Global Change Research. [Karl, T. R., Meehl, G. A., Miller, C. D., S. J., Waple, A. M., and Murray, W. L. (Editors)]. Department of Commerce, NOAA's National Climatic Data Center, Washington, DC, USA, 164 pp. Science and Assessment Product 3.3.
- CCSP (U.S. Climate Change Science Program), 2008f: *Analyses of the effects of global change on human health and welfare and human systems*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. [Gamble, J.L. (ed.), K.L. Ebi, F.G. Sussman, T.J. Wilbanks, (Authors)]. U.S. Environmental Protection Agency, Washington, D.C., USA. Science and Assessment Product 4.6.
- CCSP (U.S. Climate Change Science Program), 2008g: *Climate Models: An Assessment of Strengths and Limitations*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research [Bader D.C., C. Covey, W.J. Gutowski Jr., I.M. Held, K.E. Kunkel, R.L. Miller, R.T. Tokmakian and M.H. Zhang (Authors)]. Department of Energy, Office of Biological and Environmental Research, Washington, D.C., USA, 124 pp. Science and Assessment Product 3.1.
- CEC (Commission for Environmental Cooperation). 1997. *Ecological Regions of North America: Toward a Common Perspective*. Montréal, Québec. 71 pp.
- Cecchi, L., Morabito, M., Paola, D.M., Crisci, A., Onorari, M., and Orlandini, S. 2006. Long distance transport of ragweed pollen as a potential cause of allergy in central Italy. *Annals of Allergy, Asthma, and Immunology* 96: 86–91.
- CEQ (Council on Environmental Quality). 1981. Forty Most Asked Questions Concerning CEQ's National Environmental Policy Act Regulations. 46 *FR* 18026, 18027. March 23.
- CEQ (Council on Environmental Quality). 1984. Considering Cumulative Effects under the National Environmental Policy Act. <http://ceq.hss.doe.gov/nepa/ccenepa/ccenepa.htm>.
- CEQ (Council on Environmental Quality). 2005. Guidance on the Consideration of Past Actions in Cumulative Effects Analysis. June 24. [http://ceq.eh.doe.gov/nepa/regs/Guidance\\_on\\_CE.pdf](http://ceq.eh.doe.gov/nepa/regs/Guidance_on_CE.pdf)
- Chan, C.C., Shie, R-H., Chang, T-Y., and Tsai, D-H. 2005. Workers' exposures and potential health risks to air toxics in a petrochemical complex assessed by improved methodology. *International Archives of Occupational and Environmental Health* 79(2).  
<http://www.springerlink.com/content/v828028146272263/>.
- Chan, C., Chan, L.Y., Lam, K.S., Li, Y.S., Harris, J.M., and Oltmans, S.J. 2002. Effects of Asian air pollution transport and photochemistry on carbon monoxide variability and ozone production in subtropical coastal south China. *Journal of Geophysical Research D* 107: 4746.

- Chapin, F.S., Callaghan, T.V., Bergeron, Y., Fukuda, M., Johnstone, J.F., Juday, G., and Zimov, S.A. 2004. Global change and the boreal forest: thresholds, shifting states or gradual change? *Ambio* 33: 361–365.
- Chaudhury, S.K., Gore, J.M., and Ray, K.C.S. 2000. Impact of heat waves in India. *Current Science* 79: 153–155.
- Checkley, W., Epstein, L.D., Gilman, R.H., Figueroa, D., Cama, R.J., Patz, J.A., and Black, R.E. 2000. Effects of El Nino and ambient temperature on hospital admissions for diarrhoeal diseases in Peruvian children. *Lancet* 355: 112–118.
- Checkley, W., Gilman, R.H., Black, R.E., Epstein, L.D., Cabrera, L., Sterling, C.R., and Moulton, L.H. 2004. Effect of water and sanitation on childhood health in a poor Peruvian peri-urban community. *Lancet* 363: 112–118.
- Chen, K., Ho, Y., Lai, C., Tasi, Y., and Chen, S. 2004. Trends in concentration of the Kao-Ping Airshed, Taiwan. *Journal of Air and Waste Management* 54: 36–48.
- Chorus, I., and Bartram, J. (Eds). 1999. Toxic Cyanobacteria in Water: A Guide to their Public Health Consequences, Monitoring and Management (F & FN Spon for the World Health Organization, London, 1999).
- Christensen, J.H., Hewitson, B., Busuioc, A., Chen, A., Gao, X., Held, I., Jones, R., Kwon, W.T., R. Laprise, V. Magaña Rueda, L. Mearns, C.G. Menéndez, J. Räisänen, A. Rinke, A. Sarr and P. Whetton. 2007. Regional climate projections. In: IPCC, 2007. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, [Solomon, S., Qin, D., Manning, M., Chen, Z., Marquis, M., Averyt, K.B., Tignor, M., and Miller, H.L. (Editors)], Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 847–940.
- Chung, H., Zak, D.R., Reich, P.B., and Ellsworth, D.S. 2007. Plant species richness, elevated CO<sub>2</sub>, and atmospheric nitrogen deposition alter soil microbial community composition and function. *Global Change Biology* 13(5): 980–989.
- Ciais, P., Reichstein, M., Viovy, N., Granier, A., Ogee, J., Allard, V., Aubinet, M., Buchmann, N., Bernhofer, C.H.R., Carrara, A., Chevallier, F., De Noblet, N., Friend, A.D., Friedlingstein, P., Grünwald, T., Heinesch, B., Keronen, P., Knohl, A., Krinner, G., Loustau, D., Manca, G., Matteucci, G., Miglietta, F., Ourcival, J.M., Papal, D., Pilegaard, K., Rambal, S., Seufert G., Soussana, J.F., Sanz, M.J., Schulze, E.D., Vesala, T., and Valentini, R. 2005. Europe-wide reduction in primary productivity caused by the heat and drought in 2003. *Nature* 437: 529–534.
- CIER (Center for Integrative Environmental Research). 2007. The US Economic Impacts of Climate Change and the Costs of Inaction, University of Maryland.
- Claggett, M., and Houk, J. 2006. Federal Highway Administration Workshop on Project-Level Mobile Source Air Toxics. Third Mobile Source Air Toxics Workshop, Phoenix, Arizona, October 23-25.
- Clark, M.E., Rose, K.A., Levine, D.A., and Hargrove, W.W. 2001. Predicting climate change effects on Appalachian trout: Combining GIS and individual-based modeling. *Ecological Applications* 11: 161–178.

- Clarkson, R., and K. Deyes. 2002. Estimating the Social Cost of Carbon Emissions. Working Paper 140. Government Economic Working Paper 140. London: HM Treasury and DEFRA.
- Colette, A., B. Bomhard, A.C. Byers, M. Cassar, C. Casellanos, P. Dourojeani, M.-J. Elloumi, J. Jan, O. Hoegh-Guldberg, M. Khawlle, E. McLeod, J. Merson, G.F. Midgley, P.J. Mous, D. Olynyk, A.O. Sidl, R. Salm, L.N. Sherpa, and C. Young. 2007. Case Studies on Climate Change and World Heritage. UNESCO World Heritage Centre, Paris, France.
- Colwell, R.R. 1996. Global climate and infectious disease: the cholera paradigm. *Science* 274: 2025–2031.
- Committee on Abrupt Climate Change. 2002. *Abrupt Climate Change: Inevitable Surprises*. U.S. National Research Council Report, National Academy Press, Washington, DC, 230 pp.
- Confalonieri U, Menne, B, Akhtar, R, Ebi, K.L., Hauengue, M., Kovats, R.S., Revich, B., and Woodward, A, 2007. Human health. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson, (Eds.), Cambridge University Press, Cambridge, UK, 976 pp.
- Conti, S., Meli, P., Mineeli, G., Solimini, R., Toccaceli, V., Vichi, M., Beltrano C., and Perini, L. 2005. Epidemiologic study of mortality during the summer 2003 heat wave in Italy. *Environmental Research* 98: 390–399.
- Cook, J.T., and D.A. Frank. 2007. Food security, poverty, and human development in the United States. *Annals of the New York Academy of Sciences* 1–16.
- Corfee-Morlot, J., and N. Höhne. 2003. Climate change: long-term targets and short-term commitments. *Global Environmental Change* 13: 277–293.
- Cox, P.M., Betts, R.A., Jones, C.D., Spall, S.A., and Totterdell, I.J. 2000. Acceleration of global warming due to carbon-cycle feedbacks in a coupled climate model. *Nature* 408: 184–187.
- Cox, P.M., Betts, R.A., Collins, M., Harris, P.P., Huntingford, C., and Jones, C.D. 2004. Amazonian forest dieback under climate-carbon cycle projections for the 21<sup>st</sup> Century. *Theor. Appl. Clim.* 78: 137–156.
- Craig, M.H., Kleinschmidt, I., Nawn, J.B., Le Sueur, D., and Sharp, B. 2004. Exploring 30 years of malaria case data in KwaZulu-Natal, South Africa. Part I. The impact of climatic factors. *Tropical Medicine and International Health* 9: 1247.
- Cross, J. 2001. Megacities and small towns: different perspectives on hazard vulnerability. *Environmental Hazards* 3: 63–80. As cited in: Wilbanks, T.J., P. Romero Lankao, M. Bao, F. Berkhout, S. Cairncross, J.-P. Ceron, M. Kapsheem, R. Muir-Wood and R. Zapata-Marit, 2007: Industry, settlement and society. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 357–390.
- Crozier, L. 2003. Winter warming facilitates range expansion: Cold tolerance of the butterfly *Atalopedes campestris*. *Oecologia* 135: 648–656.

- Crozier, L., and R.W. Zabel. 2006. Climate impacts at multiple scales: evidence for differential population responses in juvenile Chinook salmon. *Journal of Animal Ecology* 75: 1100–1109.
- Csatho, B., Schenk, T., Van Der Veen, C.J., and Krabill, W.B. 2008. Intermittent thinning of Jakobshavn Isbrae, West Greenland, since the Little Ice Age. *Journal of Glaciology* 54(184): 131–144. [http://rsl.geology.buffalo.edu/documents/csatho\\_j07j061.pdf](http://rsl.geology.buffalo.edu/documents/csatho_j07j061.pdf).
- Curriero, F.C., Patz, J.A., Rose, J.B., and Lele, S. 2001. The association between extreme precipitation and waterborne disease outbreaks in the United States, 1948–1994. *American Journal of Public Health* 91(8): 1194–1199.
- Curriero, F., Heiner, K.S., Samat, J., Zeger, S., Strug, L., and Patz, J.A. 2002. Temperature and mortality in 11 cities of the Eastern United States. *American Journal of Epidemiology* 155: 80–87.
- Curriero, F., Patz, J., Rose, J., and Lele, S. 2001. Analysis of the association between extreme precipitation and waterborne disease outbreaks in the United States: 1948–1994. *American Journal of Public Health* 91(8): 1194–1199.
- Curry, R., and Mauritzen, C. 2005. Dilution of the Northern North Atlantic Ocean in recent decades. *Science* 308: 1772–1774.
- D’Amato, G., Liccardi, G., D’Amato, M., and Cazzola, M. 2002. Outdoor air pollution, climatic changes, and allergic bronchial asthma. *European Respiratory Journal* 20: 763–776.
- D’Antonio, J.R. 2006. The Impact of Climate Change on New Mexico’s Water Supply and Ability to Manage Water Resources. New Mexico Office of the State Engineer/Interstate Stream Commission.
- DaSilva, J., Garanganga, B., Teveredzi, V., Marx, S., Mason, S., and Connor, S. 2004. Improving epidemic malaria planning, preparedness, and response in South Africa. *Malaria Journal* 3: 37.
- Davis, M.B., and Shaw, R.G. 2001. Range shifts and adaptive responses to Quaternary climate change. *Science* 292: 673–679.
- Davis, M.S., Mader, T.L., Holt, S.M., and Parkhurst, A.M. 2003. Strategies to reduce feedlot cattle heat stress: effects on tympanic temperature. *Journal of Animal Science* 81: 649–661.
- Davis, R.E., Knappenberger, P.C., Michaels, P.J., and Novicoff, W.M. 2003a. Changing heat-related mortality in the United States. *Environmental Health Perspectives* 111(14): 1712–1718.
- Davis, R.E., Knappenberger, P.C., Novicoff, W.M., and Michaels, P.J. 2003b. Decadal changes in summer mortality in U.S. cities. *International Journal of Biometeorology* 47(3): 166–175.
- Davis, R., Knappenberger, P., Novicoff, W., and Michaels, P. 2002. Decadal changes in heat-related human mortality in the eastern United States. *Climate Research* 22: 175–184.
- Day, J.C. 1996. Population Projections of the United States by Age, Sex, Race and Hispanic Origin: 1995-2050. (Census UsBot, ed.), Current Population Reports, pp. 25–1130.
- De, U.S., and Mukhopadhyay, R.K. 1998. Severe heat wave over the Indian sub-continent in 1998, in perspective of global climate. *Current Science* 75: 1308–1315. Cited In: Cruz, R.V., H.

- Harasawa, M. Lal, S. Wu, Y. Anokhin, B. Punsalmaa, Y. Honda, M. Jafari, C. Li, and N. Huu Nihn, 2007: Asia. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson, Eds. Cambridge University Press, Cambridge, UK, pp. 469-506.
- De, U.S., Khole, M., and Dandekar, M. 2004. Natural hazards associated with meteorological extreme events. *Natural Hazards* 31: 487–497.
- Deeb, R.A., Sharp, J.O., Stocking, S., McDonald, S., West, K.A., Laugier, M., Alvarez, P.J.J., Kavanaugh, M.C., and Alvarez-Cohen, L. 2002. Impact of ethanol on benzene plume lengths: Microbial and modeling studies. *Journal of Environmental Engineering* 128(9): 868–875.
- DeHayes, D.H., Schaberg, P.G., Hawley, G.J., and Strimbeck, G.R. 1999. Acid rain impacts on calcium nutrition and forest health. *BioScience* 49(10): 789–800.  
[http://nrs.fs.fed.us/pubs/jrnl/1999/ne\\_1999\\_dehayes\\_001.pdf](http://nrs.fs.fed.us/pubs/jrnl/1999/ne_1999_dehayes_001.pdf).
- Delucchi, M., and Hsu, S-L. 1998. The external damage cost of noise emitted from motor vehicles. *Journal of Transportation and Statistics* 1(3): 1–24.
- DeLucchi, M.A. and Murphy, J. J. 2008. US Military Expenditures to Protect the Use of Persian Gulf Oil Imports, 36 Energy Policy 2253.
- Denman, K.L., Brasseur, G., Chidthaisong, A., Ciais, P., Cox, P.M., Dickinson, R.E., Hauglustaine, D., Heinze, C., Holland, E., Jacob, D., Lohmann, U., Ramachandran, S., da Silva Dias, P.L., Wofsy, S.C., and Zhang, X. 2007. Couplings Between Changes in the Climate System and Biogeochemistry. In: *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, [Solomon, S., Qin, D., Manning, M., Chen, Z., Marquis, M., Averyt, K. B. Tignor, M., and Miller, H.L. (Eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 499–588.
- Derocher, A.E., Lunn, N.J., and Stirling, I. 2004. Polar bears in a warming climate. *Integrative and Comparative Biology* 44: 163–176.
- DFID (Department for International Development). 2004. Key Sheet Series on the Impact of Climate Change on Poverty, Focusing on Vulnerability, Health and Pro-poor Growth. No. 01, 6 pp.
- Dhingra, R., Overly, J.G., and Davis, G.A. 1999. Life-Cycle Environmental Evaluation of Aluminum and Composite Intensive Vehicles. University of Tennessee, Prepared for: Oak Ridge National Laboratory. [http://eerc.ra.utk.edu/ccpct/pdfs/PNGV\\_Report1.pdf](http://eerc.ra.utk.edu/ccpct/pdfs/PNGV_Report1.pdf).
- Diaz, H.F., Eischeid, J.K., Duncan, C., and Bradley, R.S. 2003. Variability of freezing levels, melting season indicators, and snow cover for selected high-elevation and continental regions in the last 50 years. *Climatic Change* 59: 33–52.
- Diaz, J., Jordan, A., Garcia, R., Lopez, C., Alberdi, J.C., Hernandez, E., and Otero, A. 2002. Heat waves in Madrid 1986–1997: Effects on the health of the elderly. *International Archives of Occupational & Environmental Health* 75(3): 163–170.

- Dockery, D.W., Pope, C.A., III, Xu, X., Spengler, J.D., Ware, J.H., Ray, M.E. Ferris, B.G., and Spizer, F.E. 1993. An association between air pollution and mortality in six U.S. cities. *New England Journal of Medicine* 329: 1753–59.
- Doctor, S., and Wazniak, C.E. 2005. Status of horseshoe crab, *Limulus polyphemus*, populations in Maryland coastal bays. Chapter 8.7 in Wazniak, C.E. and M.R. Hall (Eds.). 2005. Maryland's Coastal Bays: Ecosystem Health Assessment 2004. DNR-12-1202-0009. Maryland Department of Natural Resources, Tidewater Ecosystem Assessment, Annapolis, MD.
- Döll, P., and M. Flörke. 2005. Global-scale estimation of diffuse groundwater recharge. Frankfurt Hydrology Paper 03. Institute of Physical Geography, Frankfurt University. 26 pp.
- Domingues, C.M., J. Church, N. White, P. Glecker, S. Wijffels, P. Barker, and J. Dunn. 2008. Improved estimates of upper-ocean warming and multi-decadal sea-level rise. *Nature* 453: 1090–1093.
- Dominici, F., Peng, R.D., Bell, M.L., Pham, L., McDermott, A., Zeger, S.L., and Samet, J.M. 2006. Fine particulate air pollution and hospital admission for cardiovascular and respiratory diseases. *Journal of the American Medical Association* 295(10): 1127–34.
- Donaldson, G.C., Rintamaki, H., and Nayha, S. 2001. Outdoor clothing: its relationship to geography, climate, behaviour and cold-related mortality in Europe. *International Journal of Biometeorology* 45(1): 45–51.
- DOT (U.S. Department of Transportation). 1979. Procedures of Considering Environmental Impacts. Order Number 5610.1C. September 18.
- Downing, T.E., D. Anthoff, R. Butterfield, M. Ceronsky, M. Grubb, J. Guo, C. Hepburn, C. Hope, A. Hunt, A. Li, A. Markandva, S. Moss, A. Nyong, R.S.J. Tol, and P. Watkiss. 2007. Scoping Uncertainty in the Social Cost of Carbon. Final Project Report, July, SEI Oxford Office, Oxford UK.
- Driscoll, C.T., Lawrence, G.B., Bulger, A.J., Butler, T.J., Cronan, C.S., Eagar, C., Lambert, K.F., Likens, G.E., Stoddard, J.L., and Weathers, K.C. 2001. Acidic deposition in the northeastern United States: Sources and inputs, ecosystem effects, and management strategies. *BioScience* 51(3). <http://www.esf.edu/efb/mitchell/Class%20Readings%5CBioSci.51.180.198.pdf>.
- D'Souza, R., Becker, N., Hall, G., and Moodie, K. 2004. Does ambient temperature affect foodborne disease? *Epidemiology* 15: 86–92.
- Dukes, J.S, N.R. Chiariello, E.E. Cleland, L.A. Moore, M.R. Shaw, S. Thayer, T. Tobeck, H.A. Mooney and C.B. Field. 2005. Responses of grassland production to single and multiple global environmental changes. *PLoS Biol.* 3(10): 1829–1836.
- Dunn, P.O., and Winkler, D. 1999. Climate Change has affected the breeding date of tree swallows throughout North America. *Proceedings of the Royal Society of London B* 266: 2487–2490.
- Durongdej, S. 2001. Land use changes in coastal areas of Thailand. Proceedings of the APN/SURVAS/LOICZ Joint Conference on Coastal Impacts of Climate Change and Adaptation in the Asia-Pacific Region, 14–16 November 2000, Kobe, Japan. Asia Pacific Network for Global Change Research, pp. 113–117.

- Easterling, D.R. 2002. Recent changes in frost days and the frost-free season in the United States. *Bulletin of the American Meteorological Society* 83, doi:10.1175/1520-0477.
- Easterling, D.R., and Karl, T.R. 2001. Potential Consequences of Climate Variability and Change for the Midwestern United States. *Climate Change Impacts on the United States: The Potential consequences of Climate Variability and Change*. Ch. 6, pp 167–188. Report for the U.S. Global Change Research Program. Cambridge University Press, Cambridge, UK. Available online at <http://www.usgcrp.gov/usgcrp/nacc/midwest.htm>.
- Easterling, D.R., Horton, B., Jones, P.D., Peterson, T.C., Karl, T.R., Parker, D.E., Salinger, M.J., Razuvayev, V., Plummer, N., Jamason, P., and Folland, C.K. 1997. Maximum and minimum temperature trends for the globe. *Science* 277: 363–367.
- Easterling, W.E., P.K. Aggarwal, P. Batima, K.M. Brander, L. Erda, S.M. Howden, A. Kirilenko, J. Morton, J.-F. Soussana, J. Schmidhuber, and F.N. Tubiello. 2007. Food, fibre and forest products. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson (Eds.). Cambridge University Press, Cambridge, UK. pp. 273-313.
- Ebi, K., J. Balbus, P.L. Kinney, E. Lipp, D. Mills, M.S. O’Neill, and M. Wilson, 2008: Effects of Global Change on Human Health. In *Analyses of the effects of global change on human health and welfare and human systems*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. [Galble, J.L. (Ed.), K.L. Ebi, F.G. Sussman, T.J. Wilbanks, (Authors)]. U.S. Environmental Protection Agency, Washington, D.C., USA.
- EEA (European Environment Agency). 2005. Climate change and river flooding in Europe. *EEA Briefing* 1: 1–4. Cited In: Alcamo, J., J.M. Moreno, B. Nováky, M. Bindi, R. Corobov, R.J.N. Devoy, C. Giannakopoulos, E. Martin, J.E. Olesen, A. Shvidenko. 2007. Europe. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 541-580.
- Egan, T. 2002. As trees die, some cite climate. *The New York Times* (June 25).
- Eheart, J.W., A.J. Wildermuth, and E.E. Herricks. 1999. The effects of climate change and irrigation on criterion low streamflows used for determining total maximum daily loads. *J. Amer. Water Resour. Assoc.* 35: 1365–1372.
- EIA (Energy Information Administration). 2006. U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves 2006 Annual Report. Table B3. Top 100 U.S. Fields Ranked by Liquids Production from Estimated 2006 Field Level Data. [http://www.eia.doe.gov/pub/oil\\_gas/natural\\_gas/data\\_publications/crude\\_oil\\_natural\\_gas\\_reserves/current/pdf/appb.pdf](http://www.eia.doe.gov/pub/oil_gas/natural_gas/data_publications/crude_oil_natural_gas_reserves/current/pdf/appb.pdf).
- EIA (Energy Information Administration). 2007. Annual Energy Outlook 2007. Energy Information Administration, Department of Energy. DOE/EIA-0383(2007). February.

- EIA (Energy Information Administration). 2008a. Annual Energy Outlook 2008. Energy Information Administration, U.S. Department of Energy. DOE/EIA-0383(2008). June.
- EIA (Energy Information Administration). 2008b. Petroleum Supply and Disposition Data. Energy Information Administration, U.S. Department of Energy. Released July 28.  
[http://tonto.eia.doe.gov/dnav/pet/pet\\_sum\\_snd\\_d\\_nus\\_mbbldpd\\_a\\_cur.htm](http://tonto.eia.doe.gov/dnav/pet/pet_sum_snd_d_nus_mbbldpd_a_cur.htm).
- EIA (Energy Information Administration). 2008c. International Energy Outlook 2008. Energy International Outlook, U.S. Department of Energy. DOE/EIA-0484(2008). September.
- EIA (Energy Information Administration). 2008d. Short Term Energy Outlook. Energy Information Administration, U.S. Department of Energy. Released January, 8.  
<http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/jan08.pdf>.
- EIA (Energy Information Administration). 2008e. Petroleum Supply Annual 2007, Volume 1. U.S. Department of Energy. Released July, 28.  
[http://www.eia.doe.gov/pub/oil\\_gas/petroleum/data\\_publications/petroleum\\_supply\\_annual/psa\\_volume1/current/pdf/volume1\\_all.pdf](http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_supply_annual/psa_volume1/current/pdf/volume1_all.pdf).
- Eiguren-Fernandez, A., Miguel, A., Froines, J., Thurairatnam, S., and Avol, E. 2004. Seasonal and spatial variation of polycyclic aromatic hydrocarbons in vapor-phase and PM<sub>2.5</sub> in Southern California urban and rural communities. *Aerosol Science and Technology* 38: 447–455.
- Elguindi, N., and F. Giorgi. 2006. Projected changes in the Caspian Sea level for the 21st century based on the latest AOGCM simulations. *Geophys. Res. Lett.* 33: L08706.
- EM-DAT (Emergency Events Database). 2006. The OFDA/CRED International Disaster Database.  
<http://www.em-dat.net>.
- Environment Canada. 1997. The Canada country study: climate impacts and adaptation. Adaptation and Impacts Research Group, Downsview, Ontario.
- Environment Canada. 2001. Threats to sources of drinking water and aquatic ecosystems health in Canada. National Water Research Report No.1. National Water Resources Research Institute, Burlington, Ontario. 72 pp.
- Environment Canada. 2004. Threats to water availability in Canada. NWRI Scientific Assessment Report No. 3. Prowse and ASCD Science Assessments series No. 1. National Water Research Institute, Burlington, Ontario. 128 pp.
- Environmental and Energy Study Institute. 2001. Wildlife and Human Diseases: Symptoms of Endangered Marine Ecosystems and Climate Change. Background from Congressional Briefing, May 22. 4 pp. <http://www.eesi.org/briefings/Pre2003/paper.pdf>.
- EPA (U.S. Environmental Protection Agency). 1995a. U.S. EPA Office of Compliance Sector Notebook: Profile of the Petroleum Refining Industry. EPA/310-R-95-013 SIC Code: 2911.  
<http://www.epa.gov/Compliance/resources/publications/assistance/sectors/notebooks/petroleum.html>.



- EPA (U.S. Environmental Protection Agency). 1995b. U.S. EPA Office of Compliance Sector Notebook Project: Profile of the Metal Mining Industry. EPA/310-R-95-008. Washington, DC. <http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/metminsn.pdf>.
- EPA (U.S. Environmental Protection Agency). 1997a. Climate Change and New Jersey. U.S. Environmental Protection Agency, Office of Policy, Planning and Evaluation, EPA 230-F-97-008dd.
- EPA (U.S. Environmental Protection Agency). 1997b. The benefits and costs for the Clean Air Act 1970 to 1990. EPA Report to Congress. Office of Air and Radiation. Washington, DC.
- EPA (U.S. Environmental Protection Agency). 1997c. EPA Office of Compliance Sector Notebook Project: Profile of the Plastic Resins and Man-made Fibers Industries. EPA/310/R-97/006. Washington, DC. <http://www.epa.gov/compliance/resources/publications/assistance/sectors/notebooks/resfibs.pdf>.
- EPA (U.S. Environmental Protection Agency). 1999a. The benefits and costs for the Clean Air Act 1990 to 2010. EPA Report to Congress. Office of Air and Radiation. November. EPA-410-R-99-001. <http://www.epa.gov/air/sect812/1990-2020/fullreprt.pdf>.
- EPA (U.S. Environmental Protection Agency). 1999b. Cleaner Vehicles and Cleaner Gasoline Tier 2/Gasoline Sulfur Rule. December 22. <http://www.epa.gov/otaq/regs/ld-hwy/tier-2/index.htm>.
- EPA (U.S. Environmental Protection Agency). 2000a. EPA's Climate Change Site. U.S. Environmental Protection Agency. <http://yosemite.epa.gov/oar/globalwarming.nsf/content/index.html>.
- EPA (U.S. Environmental Protection Agency). 2000b. 2000 National Water Quality Inventory. U.S. Environmental Protection Agency. <http://www.epa.gov/305b/2000report/>.
- EPA (U.S. Environmental Protection Agency). 2000c. U.S. EPA Office of Compliance Sector Notebook: Profile of the Oil and Gas Extraction Industry. EPA/310-R-99-006 <http://www.epa.gov/Compliance/resources/publications/assistance/sectors/notebooks>.
- EPA (U.S. Environmental Protection Agency). 2001. Control of Emissions of Hazardous Air Pollutants from Mobile Sources, 40 CFR parts 80 and 86. 66 *FR* 61, 17229. March 29.
- EPA (U.S. Environmental Protection Agency). 2002a. Health Assessment Document for Diesel Engine Exhaust. 2002. U.S. Environmental Protection Agency, Office of Research and Development, National Center for Environmental Assessment, Washington, DC, EPA/600/8-90/057F.
- EPA (U.S. Environmental Protection Agency). 2002b. National Water Quality Inventory: Report to Congress, 2002 Reporting Cycle. U.S. Environmental Protection Agency.
- EPA (U.S. Environmental Protection Agency). 2003. Vehicle miles traveled and the social costs of air pollution. Prepared for the Office of Air Quality and Transportation under contract to ICF Consulting and ABT Associates. EPA Contract No. 69-W-99-054, Work Assignments 2-33 and 3-33. Draft Final Report. April 30.

- EPA (U.S. Environmental Protection Agency). 2004a. Oil Program Update: Special Issue Freshwater Spills Symposium 2004. U.S. Environmental Protection Agency, Washington D.C. <http://www.epa.gov/emergencies/docs/oil/newsletters/0504update.pdf>.
- EPA (U.S. Environmental Protection Agency). 2004b. Air Quality Criteria for Particulate Matter, October 2004. In: American Lung Association, State of the Air: 2008, Protect the Air you Breathe, <http://www.lungusa2.org/sota/SOTA2008.pdf>.
- EPA (U.S. Environmental Protection Agency). 2004c. Air Quality Criteria for Particulate Matter. October 2004. Washington, DC, EPA 600/P-99/002aF-bF.
- EPA (U.S. Environmental Protection Agency). 2004d. Approved final version of MOBILE6.2 computer program released by memorandum Policy Guidance on the Use of MOBILE6.2 and the December 2003 AP-42 Method for Re-entrained Road Dust for SIP Development and Transportation Conformity. Margo Tsirigotis Oge, Director, Office of Transportation and Air Quality, and Steve Page, Director, Office of Air Quality Planning and Standards. February 24. Software and documents. <http://www.epa.gov/otaq/m6.htm>.
- EPA (U.S. Environmental Protection Agency). 2005. Heat island effect. U.S. Environmental Protection Agency, Washington, DC.
- EPA (U.S. Environmental Protection Agency). 2006a. Global Anthropogenic Non-CO<sub>2</sub> Greenhouse Gas Emissions: 1990–2020 (revised). U.S. Environmental Protection Agency, Washington, DC. <http://www.epa.gov/nonco2/econ-inv/international.html>.
- EPA (U.S. Environmental Protection Agency). 2006b. Office of Water. <http://www.epa.gov/owow/wetlands/types/marsh.html>.
- EPA (U.S. Environmental Protection Agency). 2006c. National Emissions Inventory (NEI) Air Pollution Emissions Trends Data. <http://www.epa.gov/ttn/chief/trends/trends06/nationaltier1upto2006basedon2002finalv2.1.xls>.
- EPA (U.S. Environmental Protection Agency). 2006d. National Mobile Inventory Model, version 20060310. National County Database, version 20060201. <http://www.epa.gov/otaq/nmim.htm> June 22, 2008.
- EPA (U.S. Environmental Protection Agency). 2007a. Policies for addressing PM-2.5 precursor emissions. Presented by Rich Damberg at EPA’s Workshop on PM2.5 Implementation Program and the Area Designation Process for the 2006 PM2.5 Standards. June 20, 2007. Chicago, Illinois. [http://www.epa.gov/ttn/naaqs/pm/pm25\\_implementation\\_presentations.html](http://www.epa.gov/ttn/naaqs/pm/pm25_implementation_presentations.html).
- EPA (U.S. Environmental Protection Agency). 2007b *Effects of Acid Rain–Materials*. U.S. Environmental Protection Agency, Washington, D.C. <http://www.epa.gov/acidrain/effects/materials.html>.
- EPA (U.S. Environmental Protection Agency). 2007c. *Control of Hazardous Air Pollutants From Mobile Sources*, final rule (the 2007 “MSAT rules”). 40 CFR Parts 59, 80, 85, and 86. Promulgated in the Federal Register at 72 FR 37: 8428-8476. February 26, 2007.
- EPA (U.S. Environmental Protection Agency). 2007d. Effects of Acid Rain – Surface Waters and Aquatic Animals. [http://www.epa.gov/acidrain/effects/surface\\_water.html#a3](http://www.epa.gov/acidrain/effects/surface_water.html#a3).

- EPA (U.S. Environmental Protection Agency). 2008a. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2006. Washington, DC: U.S. Environmental Protection Agency. EPA 430-R-08-005. April. <http://www.epa.gov/climatechange/emissions/usinventoryreport.html>.
- EPA (U.S. Environmental Protection Agency). 2008b. Greenbook. Currently Designated Nonattainment Areas for All Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/anc13.html>.
- EPA (U.S. Environmental Protection Agency). 2008c. National Ambient Air Quality Standards. U.S. Environmental Protection Agency. <http://epa.gov/air/criteria.html>.
- EPA (U.S. Environmental Protection Agency). 2008d. National Water Program Strategy: Response to Climate Change. [http://www.epa.gov/ow/climatechange/docs/3-27-08\\_ccdraftstrategy\\_final.pdf](http://www.epa.gov/ow/climatechange/docs/3-27-08_ccdraftstrategy_final.pdf).
- EPA (U.S. Environmental Protection Agency). 2008e. Green Book, Criteria Pollutants. U.S. Environmental Protection Agency. <http://www.epa.gov/air/oaqps/greenbk/o3co.html>.
- EPA (U.S. Environmental Protection Agency). 2008f. Spill Location. <http://www.epa.gov/emergencies/content/learning/location.htm>.
- EPA (U.S. Environmental Protection Agency). 2008g. Advance Notice of Proposed Rulemaking: Regulating Greenhouse Gas Emissions under the Clean Air Act. 40 CFR Chapter I [EPA-HQ-OAR-2008-0318; FRL-8694-2] RIN 2060-AP12. <http://www.regulations.gov/fdmspublic/compenent/main?main+DocumentDetail%o=09000064806a0cfd>.
- EPA (U.S. Environmental Protection Agency). 2008h. Staff Technical Report: Cost and Effectiveness Estimates of Technologies Used to Reduce Lightduty Vehicle Carbon Dioxide Emissions. EPA420-R-08-008, March, 2008.
- EPA (U.S. Environmental Protection Agency). 2008i. Technical Support Document on Benefits of Reducing GHG Emissions. June 12, 2008. [http://www.nma.org/pdf/tmp/082508\\_tech\\_support\\_benefits\\_reduction.pdf](http://www.nma.org/pdf/tmp/082508_tech_support_benefits_reduction.pdf).
- Epstein, P.R., Mills, E., Frith, K., Linden, E., Thomas, B., and Weireter, R. (Editors). 2006. Climate Change Futures: Health, Ecological and Economic Dimensions. The Center for Health and the Global Environment, Harvard Medical School. 142 pp.
- Ezzati, M., Lopez, A., Rodgers, A., and Murray, C. (Editors). 2004. Comparative Quantification of Health Risks: Global and Regional Burden of Disease due to Selected Major Risk Factors, Vols I and 2. World Health Organization, Geneva, 2235 pp.
- Fahrig, I. 2003. Effects of habitat fragmentation on biodiversity. *Annual Review of Ecology, Evolution and Systematics*. 34: 487–515.
- Fallico, F, Nolte, K., Siciliano, L., and Yip, F. 2005. Hypothermia-related deaths – United States, 2003–2004. *MMWR – Morbidity & Mortality Weekly Report* 54(07): 173–175.
- FAO (U.S. Food and Agriculture Organization). 2000. Global forest resources assessment 2000. FAO Forestry Paper 140, Food and Agriculture Organization of the United Nations, Rome. 511 pp.

- FAO (U.S. Food and Agriculture Organization). 2004. The state of world fisheries and aquaculture (SOFIA) 2004. Fisheries Department, Food and Agriculture Organization of the United Nations, Rome, 153 pp.
- Feng, S., and Hu, Q. 2004. Changes in agro-meteorological indicators in the contiguous United States: 1951–2000. *Theoretical and Applied Climatology* 78: 247–264.
- Fenn, M.E., Baron, J.S., Allen, E.B., Reuth, H.M., Nydick, K.R., Geiser, L., Bowman, W.D., Sickman, J.O., Meixner, T., Johnson, D.W., and Neitlich, P. 2003. Ecological effects of nitrogen deposition in the western United States. *BioScience* 53: 404–420.
- Ferrier, R., and A. Edwards. 2002. Sustainability of Scottish water quality in the early 21st century. *Sci. Total Environ.* 294: 57–71.
- Few, R. and Matthies, F. 2006. *Flood Hazards and Health: Responding to Present and Future Risks*. Earthscan, London, 240 pp.
- Few, R., M. Ahern, F. Matthies and S. Kovats. 2004. Floods, health and climate change; a strategic review. Tyndall Centre for climate Change Research, Working Paper No. 63, Norwich, UK, 138 pp.
- FHWA (Federal Highway Administration). 2005. Federal Highway Administration Section 4(f) Policy Paper. <http://www.environment.fhwa.dot.gov/projdev/4fpolicy.asp#alternative>.
- FHWA (Federal Highway Administration). 2006. *Interim Guidance on Air Toxic Analysis in NEPA Documents*. Memorandum from Cynthia Burbank to Division Administrators. February 3, 2006. U.S. Department of Transportation, Federal Highway Administration. <http://www.fhwa.dot.gov/environment/airtoxic/020306guidmem.htm>.
- FHWA (Federal Highway Administration). 2008. *Americans Driving at Historic Lows: Eleven Billion Fewer Vehicle Miles Traveled in March 2008 Over Previous March*. Press Release May, 23, 2008. U.S. Department of Transportation, Federal Highway Administration. <http://www.fhwa.dot.gov/pressroom/fhwa0811.htm>.
- Field, C.B., L.D.Mortsch, M. Brklacich, D.L. Forbes, P. Kovacs, J.A. Patz, S.W. Running, and M.J. Scott. 2007. North America. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 617-652.
- Fischlin, A., G.F. Midgley, J.T. Price, R. Leemans, B. Gopal, C. Tyrley, M.D.A. Rounsevell, O.P. Dube, J. Tarazona, A.A. Velichko. 2007. Ecosystems, their properties, goods, and services. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, 211-272.
- Fisher, A., Abler, D., Barron, E., Bord, R., Crane, R., DeWalle, D., Knight, C., Najjar, R., Nizeyimana, E., O'Connor, R., Rose, A., Shortle, J., and Yarnal, B. 2000. Preparing for a Changing Climate, The Potential Consequences of Climate Variability and Change. Mid-Atlantic Overview. 75 pp.

- Flannigan, M.D., Stocks, B.J., and Wotton, B.M. 2000. Climate change and forest fires. *Science of the Total Environment* 262: 221–229.
- Fleming, G.G., Plotkin, K.J., Roof, C.J., Ikelheimer, B.J., and Senzig, D.A. 2005. Assessment of Tools for Modeling Aircraft Noise in the National Parks, for the Federal Interagency Committee on Aviation Noise, March.
- Fleming, R.A., J.N. Candau, and R.S. McAlpine. 2002. Landscape-scale analysis of interactions between insect defoliation and forest fire in central Canada. *Climate Change* 55: 251–272.
- Fleury, M., Charron, D.F., Holt, J.D., Allen, O.B., and Maarouf, A.R. 2006. A time series analysis of the relationship of ambient temperature and common bacterial enteric infections in two Canadian provinces. *International Journal of Biometeorology* 50: 385–391.
- Flick, R.E. 1998. Comparison of California tides, storm surges, and mean sea level during the El Niño winters of 1982–1983 and 1997–1998. *Shore and Beach* 66(3): 7–11. In: California Energy Commission, 2006: *Our Changing Climate: Assessing the Risks to California*. <http://www.energy.ca.gov/2006publications/CEC-500-2006-077/CEC-500-2006-077.PDF>.
- FMCSA (Federal Motor Carrier Safety Administration). 2007. LTCCS Summary, Federal Motor Carrier Safety Administration, Office of Research and Analysis. Publication No. FMCSA-RRA-07-017 July 2007. <http://www.fmcsa.dot.gov/facts-research/research-technology/analysis/FMCSA-RRA-07-017>.
- Foley, J.A., DeFries, R., Asner, G.P., Barford, C., Bonan, G., Carpenter, S.R., Chapin, F.S., Coe, M.T., Daily, G.C., Gibbs, H.K., Helkowski, J.H., Holloway, T., Howard, E.A., Kucharik, C.J., Monfreda, C., Patz, J.A., Prentice, I.C., Ramankutty, N. and Snyder, P.K. 2005. Global consequences of land use. *Science* 309: 570–574.
- Folland, C.K., and Co-authors. 2001. Observed climate variability. *Climate Change 2001: The Scientific Basis. Contribution of Working Group I to the Third Assessment Report of the Intergovernmental Panel on climate Change*, J.T. Houghton, Y. Ding, D.J. Griggs, M. Noguer, P.J. van der Linden, X. Dai, K. Maskell, and C.A. Jounson, Eds., Cambridge university Press, 99–182.
- Forster, M.L., and Shapiro, A.M. 2003. Climatic trends and advancing spring flight of butterflies in lowland California. *Global Change Biology* 9: 1130–1135.
- Forster, P., Ramaswamy, V., Araxo, P., Bernsten, T., Betts, R.A., Fahey, D.W., Haywood, J., Lean, J., Lowe, D.C., Myhre, G., Nganga, J., Prinn, R., Raga, G., Schulze, M., and Van Dorland, R. 2007. Changes in atmospheric constituents and in radiative forcing. In: *IPCC, 2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, Solomon, S., Qin, D., Manning, M., Chen, Z., Marquis, M., Averyt, K.B. Tignor, M., and Miller, H.L. (Editors), Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 130–234.
- Fowler, A.M., and Hennessey, K.J. 1995. Potential impacts of global warming on the frequency and magnitude of heavy precipitation. *Natural Hazards* 11: 283–303.

- Frank, K.L., Mader, T.L., Harrington, J.A., Hahn, G.L., and Davis, M.S. 2001. Climate change effects on livestock production in the Great Plains. In: *Livestock Environment VI: Proceedings of the 6th International Symposium*, Stowell, R.R., Bucklin, R., and Bottcher, R.W. (Editors), ASAE, St. Joseph, Michigan, pp. 351–358.
- Franken, R.J., and Hik, D.S. 2004. Interannual variation in timing of parturition and growth of collared pikas (*Ochotona collaris*) in the Southwest Yukon. *Integrative and Comparative Biology* 44: 186.
- Fried, J.S., Torn, M.S., and Mills, E. 2004. The impact of climate change on wildfire severity: a regional forecast for northern California. *Climatic Change* 64: 169–191.
- Frumhoff, P.C., McCarthy, J.J., Melillo, J.M., Moser, S.C., and Wuebbles, D.J. 2007. *Confronting Climate Change in the U.S. Northeast: Science, Impacts, and Solutions*. Synthesis report of the Northeast Climate Impacts Assessment (NECIA). Cambridge, MA: Union of Concerned Scientists (UCS).
- Frumkin, H. 2008. Statement of Howard Frumkin, M.D., Director, National Center for Environmental Health, Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry, U.S. Department of Health and Human Services  
<http://www.cdc.gov/washington/testimony/2008/t20080409.htm>.
- Frumkin, H., Hess, J., and Vindigni, S. 2007. Peak petroleum and public health. *Journal of the American Medical Association* 298: 1688–1690.
- Fung, I.Y., Doney, S.C., Lindsay, K., and John, J. 2005. Evolution of carbon sinks in a changing climate. *Proceedings of the National Academy of Sciences* 102(32): 11201–11206.
- Gallagher, P., and Wood, L. 2003. Proceedings of the World Summit on Salmon, June 10–13. Vancouver, British Columbia. [www.sfu.ca/cstudies/science/summit.htm](http://www.sfu.ca/cstudies/science/summit.htm).
- Gan, J.B. 2004. Risk and damage of southern pine beetle outbreaks under global climate change. *Forest Ecology and Management* 191: 61–71.
- Gangoiti, G., Millan, M.M., Salvador, R., and Mantilla, E. 2001. Long-range transport and re-circulation of pollutants in the western Mediterranean during the project Regional Cycles of Air Pollution in the West-Central Mediterranean Area. *Atmospheric Environment* 35: 6267–6276.
- Geary, J. 1998. Mad About The Noise. *Time Magazine* 152(4). July 27.  
[http://www.time.com/time/magazine/1998/int/980727/cover\\_story.mad\\_about\\_th14.html](http://www.time.com/time/magazine/1998/int/980727/cover_story.mad_about_th14.html).
- GEO-LAC (U.N. Global Environmental Outlook – Latin America and the Caribbean). 2003. *Global Environmental Outlook*. United Nations Environment Programme, 279 pp.  
[http://www.unep.org/geo/pdfs/GEO\\_\\_lac2003English.pdf](http://www.unep.org/geo/pdfs/GEO__lac2003English.pdf).
- Gerber, S., Joos, F., and Prentice, I.C. 2004. Sensitivity of a dynamic global vegetation model to climate and atmospheric CO<sub>2</sub>. *Global Change Biol.* 10: 1223–1239.
- Gibbs, J.P., and Breisch, A.R. 2001. Climate warming and calling phenology of frogs near Ithaca, New York, 1900–1999. *Conservation Biology* 15: 1175–1178.

- Gilvear, D., K. Heal, and A. Stephen. 2002. Hydrology and the ecological quality of Scottish river ecosystems. *Sci. Total Environ.* 294: 131–159.
- Gleick, P.H. 2000. Water: The Potential Consequences of Climate Variability and Change for the Water Resources of the United States. The Report of the Water Sector Assessment Team of the National Assessment of the Potential Consequences of Climate Variability and Change. For the U.S. Global Change Research Program. <http://www.gcrio.org/NationalAssessment/water/water.pdf>.
- Glick, P.H., Singh, A., and Shi, H. 2001. Threats to the World's Freshwater Resources. Pacific Institute, Oakland, California, USA.
- Goodman, P.G., Dockery, D.W., and Clancy, L. 2004. Cause-specific mortality and the extended effects of particulate pollution and temperature exposure. [erratum appears in *Environ. Health Perspect.* 2004 Sep; 112(13): A729]. *Environmental Health Perspectives* 112(2): 179–185.
- Gouveia, N., Hajat, S., and Armstrong, B. 2003. Socio-economic differentials in the temperature-mortality relationship in Sao Paulo, Brazil. *International Journal of Epidemiology* 32: 390–397.
- Graham, J.D., Beaulieu, N.D., Sussman, D., Sadowitz, M., and Li, Y.C. 1999. Who lives near coke plants and oil refineries? An exploration of the environmental inequity hypothesis. *Risk Analysis* 19(2): 171–186.
- Great Lakes Regional Assessment Group. 2000. Preparing for a Changing Climate: The Potential Consequences of Climate Variability and Change. [http://www.geo.msu.edu/glra/PDF\\_files/GLRA\\_report.pdf](http://www.geo.msu.edu/glra/PDF_files/GLRA_report.pdf).
- Greenberg, J.H., Bromberg, J., Reed, C.M., Gustafson, T.L., and Beauchamp, R.A. 1983. The epidemiology of heat-related deaths, Texas – 1950, 1970–79, and 1980. *American Journal of Public Health* 73(7): 805–807.
- Greenough, G., McGeehin, M.A., Bernard, S.M., Trtanji, J., Raid, J., and Engelberg, D. 2001. The potential impacts of climate variability and change on health impacts of extreme weather events in the United States. *Environmental Health Perspectives* 109: 191–198.
- Gregg, W.W., Conkright, M.E., Ginoux, P., O'Reilly, J.E., and Casey, N.W. 2003. Ocean primary production and climate: global decadal changes. *Geophysical Research Letters* 30: 1809.
- Gregory, J.M. and P. Huybrechts. 2006. Ice-sheet contributions to future sea-level change. *Philosophical Transactions of the Royal Society A: Mathematical Physical and Engineering Sciences* 364: 1709–1731. Cited In: Pew Center on Global Climate Change, 2007. Sea Level Rise – The State of the Science. [www.pewclimate.org/docUploads/SLR\\_fact\\_sheet\\_020207.pdf](http://www.pewclimate.org/docUploads/SLR_fact_sheet_020207.pdf).
- Grize, L., Huss, A., Thommen, O., Schindler, C., and Braun-Fahrlander, C. 2005. Heat wave 2003 and mortality in Switzerland. *Swiss Medical Weekly* 135: 200–205.
- Groisman, P.Y., Knight, R.W., Karl, T.R., Easterling, D.R., Sun, B., and Lawrimore, J.M. 2004. Contemporary changes of the hydrological cycle over the contiguous United States: Trends derived from in-situ observations. *Journal of Hydrometeorology* 5: 64–85.

- Gryparis, A., Forsberg, B., Katsouyanni, K., Analitis, A., Touloumi, G., Schwartz, J., Samoli, E., Medina, S., Anderson, H.R., Niciu, E.M., Wichmann, H.E., Kriz, B., Kosnik, M., Skorkovsky, J., Vonk, J.M., and Dortbudak, Z. 2004. Acute effects of ozone on mortality from the “Air Pollution and Health: A European Approach” project. *American Journal of Respiratory and Critical Care Medicine* 170: 1080–1087.
- Gunderson, A. 2007. Ursus Maritimus. Animal Diversity Web. University of Michigan Museum of Zoology.  
[http://animaldiversity.ummz.umich.edu/site/accounts/information/Ursus\\_maritimus.html](http://animaldiversity.ummz.umich.edu/site/accounts/information/Ursus_maritimus.html).
- Gurdak, J.J., R.T. Hanson, P.B. McMahon, B.W. Bruce, J.E. McCray, G.D. Thyne, and R.C. Reedy. 2007. Climate variability controls on unsaturated water and chemical movement, High Plains Aquifer, USA. *Vadose Zone Journal* 6: 533–547.
- Gutierrez, B., Williams, S., and Thieler, E. 2007. Potential for shoreline changes due to sea-level rise along the U.S. Mid-Atlantic Region. U.S. Geological Survey. Open-File Report 2007-1278.
- Hadley, S.W., Erickson, D.J., Hernandez, J.L., Broniak, C.T., and Blasing, T.J. 2006. Responses of energy use to climate change: a climate modeling study. *Geophys. Res. Lett.* 33, L17703, doi: 10.1029/2006GL026652.
- Hahn, G.L., Chen, Y.R., Nienaber, J.A., Eigenberg, R.A., and Parkhurst, A.M. 1992. Characterizing animal stress through fractal analysis of thermoregulatory responses. *Journal of Thermal Biology* 17: 115–120.
- Haines, A., McMichael, A., and Epstein, P. 2000. Environment and health. 2. Global climate change and health. *Can. Med. Assoc. J.* 163: 729–734.
- Hajat, S. 2006. Heat- and cold-related deaths in England and Wales: Who is at risk? *Occup. Environ. Med.* 64: 93–100.
- Hajat, S., Armstrong, B., Baccini, M., Biggeri, A., Bisanti, L., Russo, A., Paldy, A., Menne, B., and Kosatsky, T. 2006. Impact of high temperatures on mortality: is there an added “heat wave” effect? *Epidemiology* 17: 632–638.
- Hajat, S., Ebi, K.L., Kovats, R.S., Menne, B., Edwards, S., and Haines, A. 2003. The human health consequences of flooding in Europe and the implications for public health: a review of the evidence. *Applied Environmental Science and Public Health* 1:13–21.
- Hales, S., de Wet, N., Maindonald, J., and Woodward, A. 2002. Potential effect of population and climate changes on global distribution of dengue fever: an empirical model. *Lancet* 360: 830–834.
- Hall-Spenser J.M., R. Rodolfo-Metalpa, S. Martin, E. Ransome, M. Fine, S.M. Turner, S.J. Rowley, D. Tedesco, and M-C Buia. 2008. Volcanic carbon dioxide vents reveal ecosystem effects of ocean acidification. *Nature* 454: 96–99.
- Hansen, J. 2005. A slippery slope: How much global warming constitutes “dangerous anthropogenic interference?” *Climate Change* 68: 269–279. In: Pew Center on Global Climate Change, 2007. Sea Level Rise – The State of the Science.  
[www.pewclimate.org/docUploads/SLR\\_fact\\_sheet\\_020207.pdf](http://www.pewclimate.org/docUploads/SLR_fact_sheet_020207.pdf).



- Hanson, R.T., and Dettinger, M.D. 2005. Ground water/surface water responses to global climate simulations, Santa Clara-Calleguas basin, Ventura, California. *Water Resources Bulletin* 41: 517–536.
- Hansen, J., M. Sato, P. Kharecha, G. Russell, D.W. Lea, and M. Siddall. 2007a. Climate change and trace gases. *Phil. Trans. R. Soc. A* 365: 1925–1954.
- Hansen, J., M. Sato, R. Ruedy, P. Kharecha, A. Lacis, R. Miller, L. Nazarenko, K. Lo, G.A. Schmidt, G. Russell, I. Aleinov, S. Bauer, E. Baum, B. Cairns, V. Canuto, M. Chandler, Y. Cheng, A. Cohen, A. Del Genio, G. Faluvegi, E. Fleming, A. Friend, T. Hall, C. Jackman, J. Jonas, M. Kelley, N.Y. Kiang, D. Koch, G. Labow, J. Lerner, S. Menon, T. Novakov, V. Oinas, Ja. Perlwitz, Ju. Perlwitz, D. Rind, A. Romanou<sup>1</sup>, R. Schmunk, D. Shindell, P. Stone, S. Sun, D. Streets, N. Tausnev, D. Thresher, N. Unger, M. Yao, and S. Zhang. 2007b. Dangerous human-made interference with climate: a GISS model E study. *Atmos. Chem. Phys.* 7: 2287–2312.
- Hansen, J. 2008a. Tipping point: Perspective of a climatologist. In *State of the Wild 2008–2009: A Global Portrait of Wildlife, Wildlands, and Oceans*. W. Woods, Ed. Wildlife Conservation Society/Island Press, pp. 6–15.
- Hansen, J. 2008b. Online editorial “Twenty Years Later: Tipping Points Near on Global Warming.” [http://www.huffingtonpost.com/dr-james-hansen/twenty-years-later-tippin\\_b\\_108766.html](http://www.huffingtonpost.com/dr-james-hansen/twenty-years-later-tippin_b_108766.html).
- Hassan, R., Scholes, R., and Ash, N., Eds. 2005. *Ecosystems and Human Wellbeing: Volume 1: Current State and Trends*. Island Press, Washington, District of Columbia, 917 pp.
- Hare, B., and M. Meinhausen. 2005. How much warming are we committed to and how much can be avoided? *Climatic Change* 75: 111–149.
- Harvell, C.D., Kim, K., Burkholder, J.M., Colwell, R.R., Epstein, P.R., Grimes, D.J., Hofmann, E.E., Lipp, E.K., Osterhaus, A.D.M.E., Overstreet, R.M., Porter, J.W., Smith, G.W. and Vasta, G.R. 1999. Emerging marine diseases – climate links and anthropogenic factors. *Science* 285: 1505–1510.
- Haywood, J.M., and O. Boucher. 2000. Estimates of the direct and indirect radiative forcing due to tropospheric aerosols: A review. *Rev. Geophys.* 38, 513–543.
- Hazenkamp-von Arx, M.E., Gotschi Fellmann, T., Oglesby, L., Ackermann-Liebrich, U., Gislason, T., Heinrich, J., Jarvis, D., Luczynska, C., Manzanera, A.J., Modig, L., Norback, D., Pfeifer, A., Poll, A., Ponzio, M., Soon, A., Vermeire, P., and Kunzli, N. 2003. PM<sub>2.5</sub> assessment in 21 European study centers of ECRHS II: method and first winter results. *J. Air Waste Manage.* 53: 617–628.
- He, Z., Kim, Y.J., Ogunjobi, K.O., and Hong, C.S. 2003. Characteristics of PM<sub>2.5</sub> species and long-range transport of air masses at Taean background station, South Korea. *Atmos. Environ.* 37: 219–230.
- Healy, J.D. 2003. Excess winter mortality in Europe: a cross country analysis identifying key risk factors. *Journal of Epidemiology and Community Health* 57(10): 784–789.
- Heath, J., Ayres, E., Possell, M., Bardgett, R.S., Black, H.I.J., Grant, H., Ineson, P., and Kerstiens, G. 2005. Rising atmospheric CO<sub>2</sub> reduces sequestration of root-derived soil carbon. *Science* 309: 1711–1713.

- Heinrich, J., and Wichmann, H. 2004. Traffic related pollutants in Europe and their effect on allergic disease. *Current Opinion in Allergy & Clinical Immunology* 4(5): 341–348.
- Helmis, C.G., Moussiopoulos, N., Flocas, H.A., Sahm, P., Assimakopoulos, V.D., Naneris, C., and Maheras, P. 2003. Estimation of transboundary air pollution on the basis of synoptic-scale weather types. *Int. J. Climatol.* 23: 405–416.
- Hemon, D., and Jouglu, E. 2004. La canicule du mois d'aout 2003 en France [The heatwave in France in August 2003]. *Rev. Epidemiol. Santé* 52: 3–5.
- Heywood, V.H., and R.T. Watson. 1995. *Global Biodiversity Assessment*. Cambridge University Press: New York, NY and Cambridge, United Kingdom.
- Hickling, R., D.B. Roy, J.K. Hilland, and C.D. Thomas. 2005. A northward shift of range margins in British Odonata. *Global Change Biol.* 11: 502–506.
- Hiura, T.S., Kazubowski, M.P., Li, N., and Nel, A.E. 1999. Chemicals in diesel exhaust particles generate oxygen radicals and induce apoptosis in macrophages. *J. Immunol.* 163: 5582–5591.
- The H. John Heinz III Center for Science, Economics and the Environment. 2002. *State of the Nation's Ecosystems*. Cambridge University Press, Cambridge.
- Hoegh-Guldberg, O., Mumby, P. J., Hooten, A.J., Steneck, R.S., Greenfield, P., Gomez, E., Harvell, C.D., Sale, P.F., Edwards, A.J., Caldeira, K., Knowlton, N., Eakin, C.M., Iglesias-Prieto, R., Muthiga, N., Bradbury, R.H., Dubi, A., and Hatziolos, M.E. 2007. Coral reefs under rapid climate change and ocean acidification. *Science* 318(5857): 1737–1742.
- Hofmann, E., Ford, S., Powell, E., and Klinck, J. 2001. Modeling studies of the effect of climate variability on MSX disease in eastern oyster (*Crassostrea virginica*) populations. *Hydrobiologia* 460: 195–212.
- Hogan, C.M., and Gregory, A. 2006. Hybrid Vehicle Noise Emission Comparison Study. <http://luminatechnologies.org/luminaaco.html>.
- Holsten, E.H., Thier, R.W., Munson, A.S., and Gibson, K.E. 2000. The Spruce Beetle. U.S. Forest Service. <http://www.na.fs.fed.us/spfo/pubs/fidls/sprucebeetle/sprucebeetle.htm>.
- Honda, Y., Ono, M., Sasaki, A., and Uchiyama, I. 1998. Shift of the short-term temperature mortality relationship by a climate factor: some evidence necessary to take account of in estimating the health effect of global warming. *J. Risk Res.* 1: 209–220.
- Hope, C.W. 2006. The Marginal Impact of CO<sub>2</sub> from PAGE2002: An Integrated Assessment Model Incorporating the IPCC's Five Reasons for Concern. *Integrated Assessment Journal* 6(1): 19-56.
- Hope, C. and D. Newbery. 2006. *Calculating the social cost of carbon*. University of Cambridge, May 2, 2006.
- Hopp, M.J., and Foley, J.A. 2003. Worldwide fluctuations in dengue fever cases related to climate variability. *Climate Res.* 25: 85–94.

- Houghton, J.T., Ding, Y., Griggs, D.J., Noguer, M., van der Linden, P.J., Dai, X., Maskell, K., Johnson, C.A., Eds. 2001. *Climate Change 2001: The Scientific Basis. Contribution of Working Group I to the Third Assessment Report of the Intergovernmental Panel on Climate Change*. (Cambridge University Press, Cambridge, UK, New York, USA, 2001).
- Houghton, R.A. 2003. Emissions (and Sinks) of Carbon from Land-Use Change. (Estimates of national sources and sinks of carbon resulting from changes in land use, 1950 to 2000). Report to the World Resources Institute from the Woods Hole Research Center. <http://cait.wri.org>.
- Hurd, B.H., Callaway, M., Smith, J., and Kirshen, P. 2004. Climatic change and US water resources: from modeled watershed impacts to national estimates. *J. Am. Water Resour. Assoc.* 40: 129–148.
- Huschke, R.E. (Editor). 1959. *Glossary of meteorology*: Boston. American Meteorological Society, 638 pp.
- Huynen, M., and Menne, B. 2003. *Phenology and human health: allergic disorders. Report of a WHO meeting in Rome, Italy, 16–17 January*. Health and Global Environmental Series, EUR/03/5036791. World Health Organization, Copenhagen, 64 pp.
- Hymel, M.L. 2007. Globalisation, Environmental Justice, and Sustainable Development: The Case of Oil. *Macquarie Law Journal* Vol. 7. <http://www.law.mq.edu.au/html/MqLJ/volume7/07Hyme.pdf>.
- Inouye, D.W., Barr, B., Armitage, K.B., and Inouye B.D. 2000. Climate change is affecting altitudinal migrants and hibernating species. *Proceedings of the National Academy of Sciences USA* 97: 1630–1633.
- IPCC (Intergovernmental Panel on Climate Change). 1997. *An Introduction to Simple Climate Models Used in the IPCC Second Assessment Report*. IPCC Technical Paper II, February 1997.
- IPCC (Intergovernmental Panel on Climate Change). 2000. *Special Report on Emissions Scenarios (SRES)*. A Special Report of Working Group III of the Intergovernmental Panel on Climate Change [N. Nakicenovic et al. (Editors)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.).
- IPCC (Intergovernmental Panel on Climate Change). 2005. *Guidance Notes for Lead Authors of the IPCC Fourth Assessment Report on Addressing Uncertainties*. July. <http://www.ipcc.ch/pdf/assessment-report/ar4/wg1/ar4-uncertaintyguidancenote.pdf>.
- IPCC (Intergovernmental Panel on Climate Change). 2006. *2006 Guidelines for National Greenhouse Gas Inventories*, Volume 2, Energy, pp. 3.16 <http://www.ipcc-nggip.iges.or.jp/public/2006gl/vol2.html>.
- IPCC (Intergovernmental Panel on Climate Change). 2007a. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Solomon, S. D.Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor, and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 996 pp.

- IPCC (Intergovernmental Panel on Climate Change). 2007b. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson. (Eds.), Cambridge University Press, Cambridge, UK, 976 pp.
- IPCC (Intergovernmental Panel on Climate Change). 2007c. *Summary for Policymakers*. In: IPCC, 2007. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Solomon, S. D.Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]
- IPCC (Intergovernmental Panel on Climate Change). 2007d. *Climate Change 2007: Synthesis Report. Contribution of Working Groups I, II and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Core Writing Team, Pachauri, R.K. and Reisinger, A. (eds.)]. IPCC, Geneva, Switzerland, 104 pp.
- Isenberg, P., Florian, M., Frank, R.M., McKernan, T., McPeak, S.W., Reilly, W.K., and Seed, R. 2008. Our Vision for the California Delta. A Report Prepared for the Governor of California by the Governor's Delta Vision Blue Ribbon Task Force. January 29, 2008.
- Ito, A., and J.E. Penner. 2005. Historical emissions of carbonaceous aerosols from biomass and fossil fuel burning for the period 1870–2000. *Global Biogeochem. Cycles* 19: GB2028, doi:10.1029/2004GB002374.
- Ito, K., De Leon, S.F., and Lippmann, M. 2005. Associations between ozone and daily mortality: analysis and meta-analysis. *Epidemiology* 16: 446–457.
- IUCN (International Union for Conservation of Nature). 2008. International Union for the Conservation of Nature and Natural Resources Red List of Threatened Species. <http://www.iucnredlist.org/search/details.php/22823/all>.
- Jacobson, M.Z. 2001. Strong Radiative Heating due to the mixing state of black carbon in atmospheric aerosols. *Nature* 409: Feb 8.
- Jacobson, M.Z. 2008. On the casual link between carbon dioxide and air pollution mortality. *Geophysical Research Letters* 35: 3809.
- Jacobson Testimony. 2007. Hearing on Black Carbon and Climate Change, October 2007, <http://oversight.house.gov/documents/20071018110606.pdf>.
- Janda, J.M., Powers, C., Bryant, R.G., and Abbott, S.L. 1988. Clinical perspectives on the epidemiology and pathogenesis of clinically significant *Vibrio* spp. *Clinical Microbiology Reviews* 1(3): 245–267.
- Janetos, A., Hansen, L., Inouye, D., Kelly, B.P., Meyerson, L., Peterson, B., and Shaw, R. 2008. Biodiversity. In: *The effects of climate change on agriculture, land resources, water resources, and biodiversity*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. Washington, DC, USA, 362 pp.
- Jansen, E., J. Overpeck, K.R. Briffa, J.-C. Duplessy, F. Joos, V. Masson-Delmotte, D. Olago, B. Otto-Bliesner, W.R. Peltier, S. Rahmstorf, R. Ramesh, D. Raynaud, D. Rind, O. Solomina, R. Villalba, and D. Zhang. 2007. Paleoclimate. In: *Climate Change 2007: The Physical Science Basis*.

- Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor, and H.L. Miller (Editors). Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. 435 pp.
- Jarvinen, A. 1994. Correlation between egg size and clutch size in the pied flycatcher *Ficedula hypoleuca* in cold and warm summers. *Ibis* 138: 620–623.
- Jerrett M, Burnett R T, Kanaroglou P, Eyles J, Finkelstein N, Giovis C, Brook J R. 2001. “A GIS - environmental justice analysis of particulate air pollution in Hamilton, Canada” *Environment and Planning A* 33(6) 955 – 973.
- Johnson, H., Kovats, R.S., McGregor, G.R., Stedman, J.R., Gibbs, M., Walton, H., Cook, L., and Black, E. 2005. The impact of the 2003 heatwave on mortality and hospital admissions in England. *Health Statistics Q.* 25: 6–12.
- Johnson, K. and Murphy, D.E. 2004. Drought Settles In, Lake Shrinks, and West’s Worries Grow. *The New York Times* (May 2).
- Jones, M.L., Shuter, B.J., Zhao, Y.M., and Stockwell, J.D. 2006. Forecasting effects of climate change on Great Lakes fisheries: Models that link habitat supply to population dynamics can help. *Canadian Journal of Fisheries and Aquatic Sciences* 63: 457–468.
- Jones, T.S., Liang, A.P., Kilbourne, E.M., Griffin, M.R., Patriarca, P.A., Wassilak, S.G., Mullan, R.J., Herrick, R.F., Donnell Jr., H.D., Choi, K., and Thacker, S.B. 1982. Morbidity and mortality associated with the July 1980 heat wave in St Louis and Kansas City, Mo. *Journal of the American Medical Association* 247(24): 3327–3331.
- Jump, A.S., and Peñuelas, J. 2005. Running to stand still: Adaptation and the response of plants to rapid climate change. *Ecol. Lett.* 8: 1010–1020.
- Kahane, C.J. 2003. Vehicle Weight, Fatality Risk and Crash Compatibility of Model Year 1991–99 Passenger Cars and Light Trucks. Technical Report No. DOT HS 809 662. Washington, DC: U.S. Department of Transportation, National Highway Traffic Safety Administration.
- Kalashnikov, I.A., Mkrтчan, M.O., Shevyreva, T.V., Kazhekina, E.F. and Techeva, S.C. 2003. Prevention of acute enteric infections and viral hepatitis a in the Krasnodar Territory appearing in connection with a natural disaster in 2002. *Zh Mikrobiol. Epidemiol. Immunobiol.* 6: 101–104.
- Kang, G., Ramakrishna, B.S., Daniel, J., Mathan, M., and Mathan, V. 2001. Epidemiological and laboratory investigations of outbreaks of diarrhoea in rural South India: implications for control of disease. *Epidemiol. Infect.* 127: 107–112.
- Kanuscak, P., Hromada, M, Tryjanowski, P., and Sparks, T. 2004. Does climate at different scales influence the phenology and phenotype of the river warbler *Locustella fluviatilis*? *Oecologia*. 141: 158–163.
- Kashian, D.M., Romme, W.H., Tinker, D.B., Turner, M.G., and Ryan, M.G. 2006. Carbon storage on landscapes with stand-replacing fires. *BioScience* 56: 598–606.

- Kasischke, E.S., and M.R. Turetsky. 2006. Recent Changes in the Fire Regime across the North American Boreal Region – Spatial and temporal patterns of burning across Canada and Alaska. *Geophysical Research Letters* 33.
- Kassomenos, P., Gryparis, A., Samoli, E., Katsouyanni, K., Lykoudis, S., and Flocas, H.A. 2001. Atmospheric circulation types and daily mortality in Athens, Greece. *Environ. Health Persp.* 109: 591–596.
- Kates, R. and Wilbanks, T. 2003. Making the global local: responding to climate change concerns from the bottom up. *Environment* 45: 12–23.
- Kato, S., Kajii, Y., Itokazu, R., Hirokawad, J., Kodae, S., and Kinjof, Y. 2004. Transport of atmospheric carbon monoxide, ozone, and hydrocarbons from Chinese coast to Okinawa island in the Western Pacific during winter. *Atmospheric Environment* 38: 2975–2981.
- Kayanickupuram, J. 2002. “Euphydryas editha” (On-line), Animal Diversity Web. [http://animaldiversity.ummz.umich.edu/site/accounts/information/Euphydryas\\_editha.html](http://animaldiversity.ummz.umich.edu/site/accounts/information/Euphydryas_editha.html).
- Keatinge, W.R. and Donaldson, G.C. 2001. Mortality related to cold and air pollution in London after allowance for effects of associated weather patterns. *Environmental Research* 86(3): 209–216.
- Keenan, G., and Mckenna, B. 2008. GM wakes up and plugs in. Now comes the hard part. <http://www.theglobeandmail.com/servlet/story/LAC.20080607.RCOVER07/TPStory/Business>.
- Keeney, R. and Hertel, T. 2008. The Indirect Land Use Impacts of U.S. Biofuel Policies: The Importance of Acreage, Yield, and Bilateral Trade Responses, GTAP Working Papers 2810, Center for Global Trade Analysis, Department of Agricultural Economics, Purdue University.
- Kennedy, V., Twilley, R., Kleypas, J., Cowan, J., and Hare, S. 2002. Coastal and Marine Ecosystems & Global Climate Change: Potential Effects on U.S. Resources. Pew Center on Global Climate Change. [http://www.pewclimate.org/docUploads/marine\\_ecosystems.pdf](http://www.pewclimate.org/docUploads/marine_ecosystems.pdf).
- Kennish, M. 2002. Environmental threats and environmental future of estuaries. *Environ. Conserv.* 29: 78–107.
- Kharaka, Y.K., and Otton, J.K. 2005. Environmental Impacts of Petroleum Production: Initial Results from the Osage-Skiatook Petroleum Environmental Research Sites, Osage County, Oklahoma. <http://pubs.usgs.gov/wri/wri03-4260/pdf/WRIR03-4260.pdf>.
- King, J.R. 2005. Report of the study group on fisheries and ecosystem responses to recent regime shifts. PICES Scientific Report 28. 162 pp.
- King, J.S., Hanson, P.J., Bernhardt, E., Deangelis, P., Norby, R.J., and Pregitzer, K.S. 2004. A multiyear synthesis of soil respiration responses to elevated atmospheric CO<sub>2</sub> from four forest FACE experiments. *Global Change Biology* 10: 1027–1042.
- Kirilenko, A.P., and Sedjo, R.A. 2007. Climate Change Impacts on Forestry. PNAS, 104 no. 50, doi: 10.1073/pnas.0701424104.

- Kirshen, P.H., Ruth, M.R., and Anderson, W. 2006. *Climate's long-term impacts on urban infrastructure and services: the case of Metro Boston. Regional Climate Change and Variability: Impacts and Responses*, Ruth, M., Donaghy, K., and Kirshen, P.H. (Editors) Edward Elgar Publishers, Cheltenham, pp. 192–252.
- Kirshen, P.H., M. Ruth, W. Anderson, T.R. Lakshmanan, S. Chapra, W. Chudyk, L. Edgers, D. Gute, M. Sanayei, and R. Vogel. 2004. *Climate's Long-term Impacts on Metro Boston*. Final Report to the U.S. Environmental Protection Agency, Office of Research and Development, Washington, DC, USA.
- Kirshen, P.H. 2002. Potential impacts of global warming in eastern Massachusetts. *J. Water Res. Pl. and Management.*, 128: 216–226.
- Kleinen, T., and G. Petschel-Held. 2007. Integrated assessment of changes in flooding probabilities due to climate change. *Climatic Change* 81: 283–312.
- Kleypas, J.A., R.A. Feely, V.J. Fabry, C. Langdon, C.L. Sabine, and L.L. Robbins. 2006. Impacts of ocean acidification on coral reefs and other marine calcifiers: a guide for future research, report of a workshop held 18-20 April 2005, St. Petersburg, FL, sponsored by NSF, NOAA, and the U.S. Geological Survey.
- Klinenberg, E. 2002. *Heat Wave: A Social Autopsy of Disaster in Chicago*. The University of Chicago Press, Chicago.
- Knowles, N., Dettinger, M.D., and Cayan, D.R. 2006. Trends in snowfall versus rainfall for the western United States, 1949-2004. *Journal of Climate* 19: 4545–4559.
- Knowlton, K., B. Lynn, R. Goldberg, C. Rosenzweig, C. Hogrefe, J. Rosenthal, and Kinney, P.L. 2007. Projecting heat-related mortality impacts under a changing climate in the New York City region. *American Journal of Public Health* 97(11): 2028–2034.
- Körner, C., R. Asshoff, O. Bignucolo, S. Hättenschwiler, S.G. Keel, S. Peláez-Riedl, S. Pepin, R.T.W. Sigwolf, and G. Zotz. 2005. Carbon flux and growth in mature deciduous forest trees exposed to elevated CO<sub>2</sub>. *Science* 309(5739): 1360–1362.
- Kosatsky, T. and Menne, B. 2005. Preparedness for extreme weather among national ministries of health of WHO's European region. *Climate Change and Adaptation Strategies for Human Health*, Menne, B. and Ebi, K.L. (Editors), Springer, Darmstadt, pp. 297–329.
- Kossmann, M., and Sturman, A. 2004. The surface wind field during winter smog nights in Christchurch and coastal Canterbury, New Zealand. *International Journal of Climatology* 24: 93–108.
- Kovats, R.S., Bouma, M.J., Hajat, S., Worrall, E., and Haines, A. 2003. El Nino and health. *Lancet* 362: 1481–1489.
- Kovats, R.S., Edwards, S., Hajat, S., Armstrong, B., Ebi, K.L., and Menne, B. 2004. The effect of temperature on food poisoning: time series analysis in 10 European countries. *Epidemiology and Infection* 132: 443–453.
- Kullman, L. 2002. Rapid recent range-margin rise of tree and shrub species in the Swedish Scandes. *J. Ecol.* 90: 68–77.

- Kundzewicz, Z.W., L.J.Mata, N.W. Arnell, P. Döll, P. Kabat, B. Jiménez, K.A. Miller, T. Oki, Z. Sen, and I.A. Shiklomanov. 2007. Freshwater resources and their management. In: *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson Eds. Cambridge University Press, Cambridge, UK, pp.173–210.
- Künzli, N., Jerrett, M., Mack, W.J., Beckerman, B., LaBree, L., Gilliland, F., Thomas, D., Peters, J., and Hodis, H.N. 2005. Ambient air pollution and atherosclerosis in Los Angeles. *Environmental Health Perspectives* 113: 201–206.
- Laden, F., Schwartz, J., Speizer, F.E., and Dockery, D.W. 2006. Reduction in fine particulate air pollution and mortality: extended. *American Journal of Respiratory and Critical Care Medicine* 173: 667–72.
- Lama, J.R., Seas, C.R., León-Barúa, R., Gotuzzo, E., and Sack, R.B. 2004. Environmental temperature, cholera, and acute diarrhoea in adults in Lima, Peru. *Journal of Health, Population and Nutrition* 22: 399–403.
- Lavoie, L. and Sirois, L. 1998. Vegetation Changes Caused by Recent Fires in the Northern Boreal Forest of Eastern Canada. *Journal of Vegetation. Science* 9 (4):489–492.
- Le Treut, H., R. Somerville, U. Cubasch, Y. Ding, Y., C. Mauritzen, A. Mokssit, T. Peterson and M. Prather. 2007. Historical Overview of Climate Change. In: *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, [Solomon, S. D.Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor, and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 93–128.
- Lehman, J. 2002. Mixing patterns and plankton biomass of the St. Lawrence Great Lakes under climate change scenarios. *J. Great Lakes Res.* 28: 583–596.
- Lehner, B., P. Döll, J. Alcamo, H. Henrichs, and F. Kaspar. 2005. Estimating the impact of global change on flood and drought risks in Europe: a continental, integrated assessment. *Climatic Change* 75: 273–299.
- Lehodey, P., Chai, F., and Hampton, J. 2003. Modeling climate-related variability of tuna populations from a coupled ocean biogeochemical-populations dynamics model. *Fisheries Oceanography* 12: 483–494.
- Leiby, Paul N., Donald W. Jones, T. Randall Curlee, and Russell Lee. 2007. *Oil Imports: An Assessment of Benefits and Costs*, ORNL-6851, Oak Ridge National Laboratory, November 1, 1997. <http://pzl1.ed.ornl.gov/ORNL6851.pdf>.
- Leipprand, A., and Gerten, D. 2006. Global effects of doubled atmospheric CO<sub>2</sub> content on evapotranspiration, soil moisture and runoff under potential natural vegetation. *Hydrol. Sci. J.* 51: 171–185.
- Lemke, P., Ren, J., Alley, R.B., Allison, I., Carrasco, J., Flato, G., Fujii, Y., Kaser, G., Mote, P., Thomas, R.H., and Zhang, T. 2007. Observations: changes in snow, ice and frozen ground. In: *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth*



- Assessment Report of the Intergovernmental Panel on Climate Change*, Solomon, S., Qin, D., Manning, M., Chen, Z., Marquis, M., Averyt, K.B. Tignor, M., and Miller, H.L. (Editors), Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 338–383.
- Lenton, T.M., Held, E., Kriegler, J.W. Hall, W. Lucht, S. Rahmstorf, and H.J. Schnellhuber. 2008. Tipping Elements in the Earth's Climate System. *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*. 105(6):1786–1793.
- Lepers, E., Lambin, E.F., Janetos, A.C., DeFries, R., Achard, F., Ramankutty, N., and Scholes, R.J. 2004. A synthesis of information on rapid land-cover change for the period 1981–2000. *BioScience* 55: 115–124.
- Lesaulnier, C., Papamichail, D., McCorkle, S., Ollivier, B., Skiena, S., Taghavi, S., Zak, D., and van der Lelie, D. 2008. Elevated atmospheric CO<sub>2</sub> affects soil microbial diversity associated with trembling aspen. *Environmental Microbiology* 10(4): 926–941.
- Lettenmaier, D.P. 2003. The role of climate in water resources planning and management. Cited in: *Water: Science, Policy, and Management*, Lawford, R., Fort, D., Hartmann, H., and Eden, S. (Editors). Water Resources Monograph 16, American Geophysical Union, Washington, DC, USA, pp. 247–266.
- Lettenmaier, D.P., Major, D., Poff, L., and Running, S. 2008. Water resources. In: *The Effects of Climate Change on Agriculture, Land Resources, Water Resources, and Biodiversity*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research, Washington, DC, USA. 362 pp.
- Leung, R.L. and Gustafson Jr., W.I. 2005. Potential regional climate change and implications to U.S. air quality. *Geophysical Research Letters* 32(16).
- Levin, R.B., Epstein, P.R., Ford, T.E., Harrington, W., Olson, E. and Richard, E.G. 2002. Drinking water challenges in the twenty-first century. *Environmental Health Perspectives* 110: 43–52.
- Levy, J.I., Chemerynski, S.M., and Sarnat, J.A. 2005. Ozone exposure and mortality: an empiric bayes metaregression analysis. *Epidemiology* 16: 458–468.
- Lewis, S.L., Phillips, O.L., Baker, T.R., Lloyd, J., Malhi, Y., Almeida, S., Higuchi, N., Laurance, W.F., Neill, D.A., Silva, J.N.M., Terborgh, J., Lezama, A.T., Martinez, R.V., Brown, S., Chave, J., Kuebler, C., Vargas, P.N., and Vinceti, B. 2004. Concerted changes in tropical forest structure and dynamics: evidence from 50 South American long-term plots. *Philos. T. Roy. Soc. Lond. B* 359: 421–436.
- Lewtas, J. 2007. Air pollution combustion emissions: Characterization of causative agents and mechanisms associated with cancer, reproductive, and cardiovascular effects. *Mutation Research*. 636: 95–133.
- Liang, Q., Jaegle, L., Jaffe, D., Weiss-Penzias, P., Heckman, A., and Snow, J. 2004. Long-range transport of Asian pollution to the northeast Pacific: seasonal variations and transport pathways of carbon monoxide. *Journal of Geophysical Research D*. 109: D23S07.

- Lindberg, R.L. 2007. Water Encyclopedia; Nutrients in Lakes and Streams.  
<http://www.waterencyclopedia.com/Mi-Oc/Nutrients-in-Lakes-and-Streams.html>.
- Lipp, E.K., Huq, A., and Colwell, R.R. 2002. Effects of global climate on infectious disease: the cholera model. *Clinical Microbiology Reviews* 15: 757.
- Lipson, D.A., Wilson, R.F., and Oechel, W.C. 2005. Effects of elevated atmospheric CO<sub>2</sub> on soil microbial biomass, activity, and diversity in a chaparral ecosystem. *Applied and Environmental Microbiology* 71(12): 8573–8580.
- Lischke, H., Lotter, A.F., and Fischlin, A. 2002. Untangling a Holocene pollen record with forest model simulations and independent climate data. *Ecol. Model.* 150: 1–21.
- List, J.H., Farris, A.S., and Sullivan, C. 2006. Reversing storm hotspots on sandy beaches; spatial and temporal characteristics. *Marine Geology* 226: 261–279.
- Loaiciga, H.A., D.R. Maidment, and J.B. Valdes. 2000. Climate change impacts on a regional Karst aquifer, Texas, USA. *Journal of Hydrology* 227: 173–194.
- Lobell, D.B., and Asner, G.P. 2003. Climate and management contributions to recent trends in U.S. agricultural yields. *Science* 299: 1032.
- Lobell, D.B., and Field, C.B. 2007. Global scale climate-crop yield relationships and the impact of recent warming. *Environmental Research Letters* 2: 1–7.
- Logan, J.A., Rehnire, J., and Powell, J.A. 2003. Assessing the impacts of global warming on forest pest dynamics. *Front. Ecol. Environ.* 1: 130–137.
- Lofgren, B., A. Clites, R. Assel, A. Eberhardt, and C. Luukkonen. 2002. Evaluation of potential impacts on Great Lakes water resources based on climate scenarios of two GCMs. *J. Great Lakes Res.* 28: 537–554.
- London Climate Change Partnership. 2004. London's Warming: A Climate Change Impacts in London Evaluation Study, London, 293 pp.
- Long, S. P., Ainsworth, E.A., Leakey, A.D.B., Nösberger, J., and Ort, D.B. 2006. Food for thought: Lower-than-expected crop yield stimulation with rising CO<sub>2</sub> concentrations. *Science* 312(5782): 1918–1921.
- Lough, G.C., Christensen, C.G., Schauer, J.J., Tortorelli, J., Mani, E., Lawson, D.R., Clark, N.N., and Gabele, P.A. 2007. Development of Molecular Marker Source Profiles for Emissions from On-Road Gasoline and Diesel Vehicle Fleets. *J. Air & Waste Manage. Assoc.* 57: 1190–1199.
- Lowe, J.A., J.M. Gregory, J. Ridley, P. Huybrechts, R.J. Nicholls, and M. Collins. 2006. The role of sea-level rise and the Greenland ice sheet in dangerous climate change: implications for the stabilization of climate. *Avoiding Dangerous Climate Change*, H.-J. Schnellhuber, W. Cramer, N. Nakicenovic, T.M.L. Wigley, and G. Yohe, eds. Cambridge University Press, Cambridge, pp. 29–36.

- Lucht, W., Prentice, I.C., Myneni, R.B., Sitch, S., Friedlingstein, P., Cramer, W., Bousquet, P., Buermann, W., and Smith, B. 2002. Climate control of the high-latitude vegetation greening trend and Pinatubo effect. *Science* 296: 1687–1689.
- Luketina, D., and M. Bender. 2002. Incorporating long-term trends in water availability in water supply planning. *Water Sci. Technol.* 46(6-7): 113–120.
- Luo, Y. 2005. Progressive nitrogen limitation of ecosystem responses to rising atmospheric carbon dioxide. *Bioscience* 54: 731–739.
- Lynch, M.J., Stretesky, P.B., and Burns, R.G. 2004. Determinants of environmental law violation fines against petroleum refineries: Race, ethnicity, income, and aggregation effects. *Society & Natural Resources* 17(4): 333–347.  
<http://www.informaworld.com/smpp/content~content=a714491918~db=all>.
- MA (Millennium Ecosystem Assessment). 2005b. Ecosystems and human well-being: Current state and trends. Findings of the Condition and Trends Working Group.
- MA (Millennium Ecosystem Assessment). 2005c. Ecosystems and human well-being: scenarios: Findings of the Scenarios Working Group. Edited by Steve R. Carpenter et al.
- MA (Millennium Ecosystem Assessment). 2005d. Ecosystems and human well-being: multiscale assessments: Findings of the Sub-global Assessments Working Group of the Millennium Ecosystem Assessment. Edited by Doris Capistrano et al.
- MA (Millennium Ecosystem Assessment). 2005e. Ecosystems and human well-being: Biodiversity synthesis. World Resources Institute, Washington, DC.
- MA (Millennium Ecosystem Assessment). 2005f. Ecosystems and Human Well-being: Synthesis. Island Press, Washington, DC.
- MacCracken, M. 2008. Prospects for Future Climate Change and the Reasons for Early Action. *Air & Waste Manage. Assoc.* 58:735–786.
- MacCracken M.C., F., Moore, and J.C. Topping Jr., eds. 2008. *Sudden and Disruptive Climate Change: Exploring the Real Risks and How we can Avoid Them*. Earthscan Publishing, London, UK.
- Mader, T.L. 2003. Environmental stress in confined beef cattle. *Journal of Animal Science* 81 (electronic suppl. 2): 110–119.
- Mader, T.L., Fell, L.R., and McPhee, M.J. 1997. Behavior response of non-Brahman cattle to shade in commercial feedlots. In: *Livestock Environment VI: Proceedings of the 6th International Symposium*. ASAE, St. Joseph, Michigan. pp. 795–802.
- Malhi, Y. and Philips, O.L. 2004. Tropical forests and global atmospheric change: a synthesis. *Philos. T. Roy Soc. Lond. B* 359: 549–555.
- Mark, B.G., and G.O. Seltzer. 2003. Tropical glacier meltwater contribution to stream discharge: a case study in the Cordillera Blanca, Peru. *J. Glaciol.* 49: 271–281.

- Martin, B., Fuelberg, H., Blake, N., Crawford, J., Logan, L., Blake, D., and Sachse, G. 2002. Long-range transport of Asian outflow to the equatorial Pacific. *Journal of Geophysical Research D*. 108: 8322.
- Martinez-Navarro, F., Simon-Soria, F., and Lopez-Abente, G. 2004. Valoracion del impacto de la ola de calor del verano de 2003 sobre la mortalidad [Evaluation of the impact of the heatwave in the summer of 2003 on mortality]. *Gaceta Sanitaria* 18: 250–258. [In Spanish]
- Mattson, W.J., and Haack, R.A. 1987. The role of drought in outbreaks of plant-eating insects. *Bioscience* 37:110–118.
- Mauget, S.A. 2003. Multidecadal regime shifts in U.S. streamflow, precipitation, and temperature at the end of the twentieth century. *Journal of Climate* 16: 3905–3916.
- Maynard, D., Coull, B.A., Gryparis, A., and Schwartz, J. 2007. Mortality Risk Associated with Short-Term Exposure to Traffic Particles and Sulfates. *Environmental Health Perspectives*. 115(5): 751–755.
- McGeehin, M.A., and Mirabelli, M. 2001. The potential impacts of climate variability and change on temperature-related morbidity and mortality in the United States. *Environmental Health Perspectives* 109(2):185–189.
- McGranahan, G., Balk, D., and Anderson, B. 2006. Low coastal zones settlements. *Tiempo* 59: 23–26.
- McKenzie, D., Hessland, A.E., and Peterson, D.L. 2001. Recent growth of conifer species of western North America: Assessing spatial patterns of radial growth trends. *Canadian Journal of Forest Research* 31: 526–538.
- McMichael, A and Githek, O.A. 2001. Human health. Cited in: McCarthy, J.T., Canziani, O.F., Leary, N.A., Dokken, D.J., White, K.S. (Editors). *Climate Change 2001: Impacts, Adaptations, and Vulnerability*. Geneva, Switzerland: Intergovernmental Panel on Climate Change; 2001:453–485. [www.grida.no/climate/ipcc\\_tar/wg2/pdf/wg2TARchap9.pdf](http://www.grida.no/climate/ipcc_tar/wg2/pdf/wg2TARchap9.pdf). Cited in: American Academy of Pediatrics. 2007. Global Climate Change and Children’s Health. *Pediatrics* 2007 120: 1149–1152.
- McMichael, A.D.H. Campbell-Lendrum, C.F. Corvalàn, K.L. Ebi, A. Githeko, J.D. Scheraga and A. Woodward. 2003. Climate change and Human Health Risks and Responses. World Health Organization, Geneva, Switzerland, 322 pp.
- McMichael, A.J., Haines, A., Slooff, R. and Kovats, S (Editors). 1996. Climate change and human health. World Health Organization, World Meteorological Organization, United Nations Environmental Programme, Geneva.
- McMichael, A. 2004. Climate change. Comparative Quantification of Health Risks: Global and Regional Burden of Disease due to Selected Major Risk Factors, Vol. 2, Ezzati, M., Lopez, A., Rodgers, A., and Murray, C. (Editors), World Health Organization, Geneva, pp. 1543–1649.
- McPhaden, M.J., and Zhang, D. 2002. Slowdown of the meridional overturning circulation in the upper Pacific Ocean. *Nature* 415: 603–608.

- Mead, P.S., Slutsker, L., Dietz, V., McCaig, L.F., Bresee, J.S., Shapiro, C., Griffin, P.M., and Tauxe, R.V. 1999. Food-related illness and death in the United States. *Emerging Infectious Diseases* 5(5): 607–625.
- Mearns, L.O., Carbone, G., Doherty, R.M., Tsvetsinskaya, E.A., McCarl, B.A., Adams, R.M., and McDaniel, L. 2003. The uncertainty due to spatial scale of climate scenarios in integrated assessments: An example from U.S. agriculture. *Integrated Assessment* 4: 225–235.
- Meehl, G.A., T.F. Stocker, W.D. Collins, P. Friedlingstein, A.T. Gaye, J.M. Gregory, A. Kitoh, R. Knutti, J.M. Murphy, A. Noda, S.C.B. Raper, I.G. Watterson, A.J. Weaver and Z.-C. Zhao. 2007. Global Climate Projections. In: *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, [Solomon, S.D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 747–846.
- Meier, M., Dyurgerov, M., Rick, U., O'Neel, S., Pfeffer, T., Anderson, R., Anderson, S., and Glazovsky, A. 2007. Glaciers dominate eustatic sea-level rise in the 21st Century. *Science* 317: 1064–1067. <http://www.sciencemag.org/cgi/content/abstract/1143906v1>.
- Mendelsohn, R., W. Morrison, M.E. Schlesinger, and N.G. Andronova. 2000. Country-Specific Market Impacts of Climate Change. *Climatic Change* 45(3-4): 553-569.
- Menne, B. and Bertollini, R. 2000. The health impacts of desertification and drought. *Down to Earth* 14: 4–6.
- Menne, B. 2000. Floods and public health consequences, prevention and control measures. UN 2000 (MP.WAT/SEM.2/1999/22).
- Metro East Coast Regional Assessment. 2000. Climate Change and a Global City: An Assessment of the Metropolitan East Coast Region.
- Metzger, M.J., M.D.A. Rounsevell, L. Acosta-Michlick, R. Leemans and D. Schröter. 2006. The vulnerability of ecosystem services to land use change. *Agr. Ecosyst. Environ.* 114: 69–85.
- Michaelidis, B., B.C. Ouzounis, A. Palaras, and H.O. Portner. 2005. Effects of long-term moderate hypercapnia on acid-base balance and growth rate in marine mussels *Mytilus galloprovincialis*. *Marine Ecology Progress Series* 293: 109–118. Cited In: Keller, B.D., S. Aíramé, B. Causey, A. Friedlander, D.F. Gleason, R. Grober-Dunsmore, J. Johnson, E. McLeod, S.L. Miller, R.S. Steneck, and C. Woodley, 2008: Marine Protected Areas. In: *Preliminary review of adaptation options for climate sensitive ecosystems and resources*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research [Julius, S.H., J.M. West (eds.), J.S. Baron, B. Griffith, L.A. Joyce, P. Kareiva, B.D. Keller, M.A. Palmer, C.H. Peterson, and J.M. Scott (Authors)]. U.S. Environmental Protection Agency, Washington, DC, USA, pp. 8-1 to 8-95.
- Michelozzi, P., de Donato, F., Accetta, G., Forastiere, F., D'Ovido, M., and Kalkstein, L.S. 2004. Impact of heat waves on mortality: Rome, Italy, June–August 2003. *Journal of the American Medical Association* 291: 2537–2538.

- Michelozzi, P., de' Donato, F., Bisanti, L., Russo, A., Cadum, E., DeMaria, M., D'Ovidio, M., Costa, G., and Perucci, C.A. 2005. The impact of the summer 2003 heatwaves on mortality in four Italian cities. *Eurosurveillance* 10: 161–165.
- Mickley, L.J., Jacob, D.J., Field, B.D., and Rind, D. 2004. Effects of future climate change on regional air pollution episodes in the United States. *Geophysical Research Letters* 31: L24103.
- Middleton, E.M., Herman, E.R., Celarier, E.A., Wilkinson, J.W., Carey, C., and Rusin, R.J. 2001. Evaluating ultraviolet radiation exposure with satellite data at sites of amphibian declines in Central and South America. *Conservation Biology*. 15: 914–929.
- Milly, P.C.D., Betancourt, J., Falkenmark, M., Hirsch, R.M., Kundzewicz, Z., Lettenmaier, D.P., and Stouffer, R.J. 2008. Stationarity is dead: Whither water management. *Science* 319: 573–574.
- Milly, P.C.D., K.A. Dunne, and A.V. Vecchia. 2005. Global pattern of trends in streamflow and water availability in a changing climate. *Nature* 438: 347–350.
- Mimura, N., L. Nurse, R.F. McLean, J. Agard, L. Briguglio, P. Lefale, R. Payet and G. Sem, 2007: Small islands. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 687-716.
- Mirza, M.M.Q. 2003. Three recent extreme floods in Bangladesh: a hydrometeorological analysis. *Nat. Hazards* 28: 35–64.
- Mohanti, M. 2000. Unprecedented supercyclone in the Orissa Coast of the Bay of Bengal, India. Cogeoenvironment Newsletter. Commission on Geological Sciences for Environmental Planning of the International Union on Geological Sciences 16: 11–13.
- Mohanty, P. and Panda, U. 2003. Heatwave in Orissa: A Study Based on Heat Indices and Synoptic Features –Heatwave Conditions in Orissa. Regional Research Laboratory, Institute of Mathematics and Applications, Bhubaneswar, 15 pp.
- Mohseni, O., Stefan, H.G., and Eaton, J.G. 2003. Global warming and potential changes in fish habitat in U.S. streams. *Climatic Change* 59: 389–409.
- Monson, R.K., Sparks, J.P., Rosenstiel, T.N., Scott-Denton, L.E., Huxman, T.E., Harley, P.C., Turnipseed, A.A., Burns, S.P., Backlund, B., and Hu, J. 2005. Climatic influences on net ecosystem CO<sub>2</sub> exchange during the transition from wintertime carbon source to springtime carbon sink in a high-elevation, subalpine forest. *Oecologia* 146: 130–147.
- Moore, K., Clarke, A., Kapustin, V., and Howell, S. 2003. Long-range transport of continental plumes over the Pacific Basin: aerosol physiochemistry and optical properties during PEM-Tropics A and B. *Journal of Geophysical Research D*. 108: 8236.
- Morello-Frosch, R. 2002. The political economy of environmental discrimination. *Environ. Plan. C* 20: 477–496.
- Morton, R.A. 1994. Texas barriers. In: Davis, R.A., Editor, *Geology of Holocene Barrier Island Systems*: New York, Springer-Verlag, pp. 75–114.

- Mortsch, L., M. Alden, and J. Scheraga. 2003. Climate change and water quality in the Great Lakes Region - risks opportunities and responses. Great Lakes Water Quality Board for the International Joint Commission, 213 pp.
- Moss, R.H., and Schneider, S.H. 2000. Uncertainties in the IPCC TAR: Recommendations to lead authors for more consistent assessment and reporting. In: *Guidance Papers on the Cross Cutting Issues of the Third Assessment Report of the IPCC* [eds. R. Pachauri, T. Taniguchi and K. Tanaka], World Meteorological Organization, Geneva, pp. 33-51.
- Mote, P., A.F. Hamlet, M.P. Clark, and D.P. Lettenmaier. 2005. Declining mountain snowpack in western North America. *Bull. Amer. Meteor. Soc.*, 86, doi: 10.1175/BAMS-1186-1171-1139.
- Mote, P.W., E.A. Parson, A.F. Hamlet, W.S. Keeton, D. Lettenmaier, N. Mantua, E.L. Miles, D.W. Peterson, D.L. Peterson, R. Slaughter, and A.K. Snover. 2003. Preparing for climatic change: the water, salmon, and forests of the Pacific Northwest. *Clim. Change* 61: 45–88.
- Mott, J.A., Meyer, P., Mannino, D., Redd, S., Smith, E., Gotway-Crawford, C., and Chase, E. 1999. Wildland forest fire smoke: health effects and intervention evaluation. *Western Journal of Medicine* 176(2002): 157–162.
- Mudway, I.S. and Kelly, F.J. 2000. Ozone and the lung: a sensitive issue. *Molecular Aspects of Medicine* 21: 1–48.
- Mundandhara, S.J., Becker, S., and Madden, M.C. 2006. Effects of diesel exhaust particles on human alveolar macrophage ability to secrete inflammatory mediators in response to lipopolysaccharide. *Toxicology in Vitro*. 20(5): 614–624.
- Nagendra, S. and Khare, M. 2003. Diurnal and seasonal variations of carbon monoxide and nitrogen dioxide in Delhi city. *International Journal of Environment and Pollution* 19: 75–96.
- Najjar, R.G., Walker, H.A., Anderson, P.J., Barron, E.J., Bord, R., Gibson, J., Kennedy, V.S., Knight, C.G., Megonigal, J.P., O'Connor, R.E., Polsky, C.J., Psuty, N.P., Richards, K.B., Sorenson, L.G., Steele, E., and Swanson, R.S. 1999. The potential impacts of climate change on the Mid-Atlantic coastal region. *Climate Research* 14(2): 219–233.
- Nakicenovic, N., J. Alcamo, G. Davis, B. de Vries, J. Fenhann, S. Gaffin, K. Gregory, A. Grübler, T.Y. Jung, T. Kram, E. Lebre La Rovere, L. Michaelis, S. Mori, T. Morita, W. Pepper, H. Pitcher, L. Price, K. Riahi, A. Roehri, H.-H. Rogner, A. Sankovski, M. Schlesinger, P. Shukla, S. Smith, R. Swart, S. van Rooijen, N. Victor, Z. Dadi. 2000. *Special Report on Emissions Scenarios. A Special Report from Working Group II of the Intergovernmental Panel on Climate Change*. Cambridge University Press, Cambridge and New York, 599 pp.  
<http://www.grida.no/climate/ipcc/emission/index.htm>.
- NAS (National Academy of Sciences). 2002. *Effectiveness and Impact of Corporate Average Fuel Economy (CAFE) Standards*. National Research Council, National Academy of Sciences. National Academy Press, Washington, DC. <http://www.nap.edu/books/0309076013/html/>.
- NAST (National Assessment Synthesis Team). 2001. *Climate Change Impacts on the United States: The Potential Consequences of Climate Variability and Change*. Report for the US Global Change Research Program. Cambridge University Press, Cambridge, UK.  
<http://www.usgcrp.gov/usgcrp/nacc/background/regions.htm>.

- National Science and Technology Council (U.S.). 2008. Scientific assessment of the effects of global change on the United States. Washington, D.C.: National Science and Technology Council (U.S.), Committee on Environment and Natural Resources.  
<http://www.ostp.gov/galleries/NSTC%20Reports/Scientific%20Assessment%20FULL%20Report.pdf>.
- Naumova, E.N., Jjagai, J.S., Matyas, B., DeMaria, A., MacNeill, I.B., and Griffiths, J.K. 2006. Seasonality in six enterically transmitted diseases and ambient temperature. *Epidemiology and Infection* pp. 1–12.
- Nchito, M., Kelly, P., Sianongo, S., Luo, N.P., Feldman, R., Farthing, M., and Baboo, K.S. 1998. Cryptosporidiosis in urban Zambian children: an analysis of risk factors. *American Journal of Tropical Medicine and Hygiene* 59: 435–437.
- Needham, G.R. and Teel, P.D. 1991. Off-host physiological ecology of ixodid ticks. *Annual Review of Entomology* 36: 659–681.
- Nelson, F.E., Anisimov, O.A., and Shiklomanov, N.I. 2001. Subsidence risk from thawing permafrost. *Nature* 410: 889–890.
- Nemani, R.R., Keeling, C.D., Hashimoto, H., Jolly, W.M., Piper, S.C., Tucker, C.J., Myneni, R.B., and Running, S.W. 2003. Climate-driven increases in global terrestrial net primary production from 1982 to 1999. *Science* 300: 1560–1563.
- Neumann, J.E., G. Yohe, R. Nichols, and M. Manion. 2000. Sea Level Rise and Global Climate Change: A Review of Impacts to U.S. Coasts. Pew Center on Global Climate Change, Washington, DC, USA.
- Newman, J.A. 2005. Climate change and the fate of cereal aphids in Southern Britain. *Global Change Biol.* 11: 940–944.
- NHS (National Health Service). 2006. Heatwave Plan for England. Protecting Health and Reducing Harm from Extreme Heat and Heatwaves. Department of Health, United Kingdom.
- NHTSA (National Highway Transportation Safety Administration). 2008a. Preliminary Regulatory Impacts Analysis, Corporate Average Fuel Economy for MY 2011–2015. Passenger Cars and Light Trucks. National Highway Traffic Safety Administration, Office of Regulatory Analysis and Evaluation, National Center for Statistics and Analysis. April.  
[http://www.nhtsa.gov/staticfiles/DOT/NHTSA/Rulemaking/Rules/Associated%20Files/CAFE\\_2008\\_PRIA.pdf](http://www.nhtsa.gov/staticfiles/DOT/NHTSA/Rulemaking/Rules/Associated%20Files/CAFE_2008_PRIA.pdf).
- NHTSA (National Highway Transportation Safety Administration). 2008b. Notice of Proposed Rulemaking , Average Fuel Economy Standards, Passenger Cars and Light Trucks; Model Years 2011-2015. U.S. Department of Transportation. 49 CFR Parts 523, 531, 533, 534, 536 and 537.
- Nicholls, K.H. 1999. Effects of temperature and other factors on summer phosphorus in the inner Bay of Quinte, Lake Ontario: Implications for climate warming. *J. Great Lakes Res.* 25: 250–262.
- Nicholls, R.J. 2003. An expert assessment of storm surge “hotspots.” Interim Report to Center for Hazards and Risk Research, Lamont-Doherty Observatory, Columbia University. Flood Hazard Research Centre, University of Middlesex, London, 10 pp.



- Nicholls, R.J., Wong, P.P., Burkett, V.R., Codignotto, J.O., Hay, J.E., McLean, R.F., Ragoonaden, S., and Woodroffe, C.D. 2007. Coastal systems and low-lying areas. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, pp. 315-356.
- NOAA (U.S. National Oceanic and Atmospheric Administration). 2001. Winter Storms, The Deceptive Killers. U.S. Department of Commerce. National Oceanic and Atmospheric Administration. National Weather Service. ARC 4467 December 2001 NOAA/PA 200160. <http://www.weather.gov/om/brochures/winterstorm.pdf>.
- NOAA (U.S. National Oceanic and Atmospheric Administration). 2005. Heatwave a Major Summer Killer. National Weather Service. Office of Climate. Water and Weather Services. NOAA/PA 85001. [http://www.nws.noaa.gov/om/brochures/heat\\_wave.shtml](http://www.nws.noaa.gov/om/brochures/heat_wave.shtml).
- Nogueira, P.J. 2005. Examples of heat warning systems: Lisbon's ICARO's surveillance system, summer 2003. *Extreme Weather Events and Public Health Responses* Kirch, W., Menne, B. and Bertollini, R. (Editors), Springer, Heidelberg, pp. 141–160.
- Norby, R.J., and Iversen, C.M. 2006. Nitrogen uptake, distribution, turnover, and efficiency of use in a CO<sub>2</sub>-enriched sweetgum forest. *Ecology* 87: 5–14.
- Norby, R.J., DeLucia, E.H., Gielen, B., Calfapietra, C., Giardina, C.P., King, J.S., Ledford, J., McCarthy, H.R., Moore, D.J.P., Ceulemans, R., De Angelis, P., Finzi, A.C., Karnosky, D.F., Kubiske, M.E., Lukac, M., Pregitzer, K.S., Scarascia-Mugnozza, G.E., Schlesinger, W.H., and Oren, R. 2005. Forest response to elevated CO<sub>2</sub> is conserved across a broad range of productivity. *Proceedings of the National Academy of Sciences of the United States of America* 102: 18052–18056.
- Nordhaus, W.D. 2007. *The Stern Review on the Economics of Climate Change*. [http://nordhaus.econ.yale.edu/stern\\_050307.pdf](http://nordhaus.econ.yale.edu/stern_050307.pdf).
- Nordhaus, W.D., and J.G. Boyer. 2000. *Warming the World: Economic Models of Global Warming*. The MIT Press, Cambridge, MA.
- Northeast Climate Impacts Assessment (NECIA). 2007. New Jersey, Confronting Climate Change in the U.S. North East. [www.climatechoices.org/assets/documents/climatechoices/new-jersey\\_necia.pdf](http://www.climatechoices.org/assets/documents/climatechoices/new-jersey_necia.pdf).
- Nowakowski, J.J. 2002. Variation of morphometric parameters within the Savi's warbler (*Locustella luscinioides*) population in eastern Poland. *Ring*. 24: 49.
- NPRA (National Petrochemical & Refiners Association). 2008. United States Refining and Storage Capacity Report. Refining Capacity Report January 1, 2007. Published August 2008. <http://www.npra.org/publications/statistics/RC2007.pdf>.
- NPS (National Park Service). n.d. Listing a Property: Some Frequently Asked Questions. <http://www.nps.gov/nr/listing.htm>.
- NRC (National Research Council). 1984. 55: A Decade of Experience. Special Report 204. Washington, DC: Transportation Research Board.

- NRC (National Research Council). 2002. Effectiveness and Impact of Corporate Average Fuel Economy (CAFE) Standards. Washington, DC: National Academies Press.
- NY City DEP. 2008. Assessment and Action Plan, Report 1. The City of New York Department of Environmental Protection. May.
- O'Brien, K.L., and Leichenko, R.M. 2000. Double Exposure: assessing the impacts of climate change within the context of economic globalization. *Global Environ. Change* 10: 221–232.
- O'Brien, K., L. Sygna and J.E. Haugen. 2004. Vulnerable or resilient? A multi-scale assessment of climate impacts and vulnerability in Norway. *Climatic Change* 64: 75–113.
- O'Neill, B.C. and M. Oppenheimer. 2002. Climate change: dangerous climate impacts and the Kyoto Protocol. *Science* 296: 1971–1972.
- O'Neill, M.S., Jerrett, M., Kawachi, I., Levy, J.I., Cohen, A.J., Gouveia, N., Wilkinson, P., Fletcher, T., Cifuentes, L., and Schwartz, J. 2003a. Health, wealth, and air pollution: advancing theory and methods. *Environmental Health Perspectives* 111(16): 1861–1870.
- O'Neill, M.S., Zanobetti, A., and Schwartz, J. 2003b. Modifiers of the temperature and mortality association in seven US cities. *American Journal of Epidemiology* 157(12): 1074–1082.
- O'Neill, M.S., Jerrett, M., Kawachi, I., Levy, J.I., Cohen, A.J., Gouveia, N., Wilkinson, P., Fletcher, T., Cifuentes, L. and J. Schwartz with input from participants of the Workshop on Air Pollution and Socioeconomic Conditions. 2003c. Health, Wealth, and Air Pollution: Advancing Theory and Methods. *Environmental Health Perspectives* 111(16).
- O'Neill M.S., Zanobetti A, and Schwartz J. 2005a. Disparities by race in heat-related mortality in four U.S. cities: the role of air conditioning prevalence. *Journal of Urban Health* 82(2): 191–197.
- O'Neill, M., Hajat, S., Zanobetti, A., Ramirez-Aguilar, M., and Schwartz, J. 2005b. Impact of control for air pollution and respiratory epidemics on the estimated associations of temperature and daily mortality. *International Journal of Biometeorology* 50(2): 121–129.
- O'Reilly, C., S. Alin, P. Plisnier, A. Cohen, and B. Mckee. 2003. Climate change decreases aquatic ecosystem productivity of Lake Tanganyika, Africa. *Nature* 424: 766–768.
- O'Rourke, D., and Connolly, S. 2003. Just oil? The distribution of environmental and social impacts of oil production and consumption. *Annual Review of Environment and Resources* 28: 587–617. <http://repositories.cdlib.org/cgi/viewcontent.cgi?article=1485&context=postprints>.
- OECD (Organization for Economic Co-operation and Development). 1988. The external damage cost of noise emitted from motor vehicles. *Journal of Transportation and Statistics* 1(3): 1–24.
- Olmos, S. 2001. Vulnerability and adaptation to climate change: concepts, issues, assessment methods. Climate Change Knowledge Network Foundation Paper, Oslo, 20 pp.
- OMB (White House Office of Management and Budget). 2003. Office of Information and Regulatory Affairs, Circular A-4, September 17, 2003. <http://www.whitehouse.gov/omb/circulars/a004/a-4.pdf> June 23, 2008.

- Pacala, S. and Socolow, R. 2004. Stabilization Wedges: Solving the Climate Problem for the Next 50 Years with Current Technologies. *Science Magazine*, Vol 305: 968–972.
- Pane, E.F. and J.P. Barry. 2007. Extracellular acid-base regulation during short-term hypercapnia is effective in a shallow-water crab, but ineffective in a deep-sea crab. *Marine Ecology Progress Series* 334: 1–9. Cited In: Keller, B.D., S. Airamé, B. Causey, A. Friedlander, D.F. Gleason, R. Grober-Dunsmore, J. Johnson, E. McLeod, S.L. Miller, R.S. Steneck, and C. Woodley, 2008: Marine Protected Areas. In: *Preliminary review of adaptation options for climate sensitive ecosystems and resources*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research [Julius, S.H., J.M. West (eds.), J.S. Baron, B. Griffith, L.A. Joyce, P. Kareiva, B.D. Keller, M.A. Palmer, C.H. Peterson, and J.M. Scott (Authors)]. U.S. Environmental Protection Agency, Washington, DC, USA, pp. 8-1-8-95.
- Parkinson, A.J. and Butler, J.C. 2005. Potential impacts of climate change on infectious diseases in the Arctic. *International Journal of Circumpolar Health* 64: 478–486.
- Parmesan, C. 1996. Climate and species range. *Nature* 382: 765–766.
- Parmesan, C., and Galbraith, H. 2004. Observed Impacts of Global Climate Change in the U.S. Prepared for the Pew Center on Global Environmental Change. 56 pp.
- Parmesan, C., and Yohe, G. 2003. A globally coherent fingerprint of climate change impacts across natural systems. *Nature* 421: 37–42.
- Parry, M.L., Canziani, O.F., Palutikof, J.P., and Co-authors. 2007. Technical Summary. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson (Eds.), Cambridge University Press, Cambridge, UK, pp. 23–78.
- Parsons E.A., Burkett, V.R., Fisher-Vanden, K., Keith, D.W., Mearns, L.O., Pitcher, H.M., Rosenzweig, C.E., and Webster, M.D. 2007. Global-Change Scenarios: Their Development and Use, in: Sub-report 2.1B of Synthesis and Assessment Product 2.1 by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research, Department of Energy, Office of Biological & Environmental Research, Washington, D.C., 2007.
- Pascal, M., Laaidi, K., Ledrans, M., Baffert, E., Caseiro-Schönemann, C., Tertre, A.L., Manach, J., Medina, S., Rudant, J., and Empereur-Bissonnet, P. 2006. France's heat health watch warning system. *International Journal of Biometeorology* 50: 144–153.
- Pascual, M., Ahumada, J.A., Chaves, L.F., Rodo, X., and Bouma, M. 2006. Malaria resurgence in the East African highlands: temperature trends revisited. *Proceedings of the National Academy of Sciences* 103: 5829–5834.
- Pastor, M., Sadd, J., and Hipp, J. 2001. Which came first? Toxic facilities, minority move-in, and environmental justice. *J Urban Aff* 23:1–21.
- Patrinos, A., and A. Bamzai. 2005. Policy needs robust climate science. *Nature* 438: 285.
- Pattenden, S., Nikiforov, B., and Armstrong, B.G. 2003. Mortality and temperature in Sofia and London. *Journal of Epidemiology and Community Health* 57: 628–633.

- Patz, J. and J.M. Baldus. 2001. Global climate change and air pollution. In: *Ecosystem Change and Public Health. A Global Perspective* [Aron, J.L. and J.A. Patz (eds.)]. The Johns Hopkins University Press, Baltimore, pp. 379-408. Cited in: Scientific Assessment of the Effects of Global Change on the United States: A Report of the Committee on Environment and Natural Resources National Science and Technology Council (May 2008).
- Patz, J. 2001. Public health risk assessment linked to climatic and ecological change. *Hum. Ecol. Risk Assess.* 7: 1317–1327.
- Pearce, D. 2005. “The Social Cost of Carbon.” In *Climate-Change Policy*. D. Helm (Ed.) Oxford University Press, Oxford and New York, pp. 99-133.
- Perry, D.A. 1994. *Forest Ecosystems*. The Johns Hopkins University Press. Baltimore, MD.
- Peterson, C.H., R.T. Barber, K.L. Cottingham, H.K. Lotze, C.A. Simenstad, R.R. Christian, M.F. Piehler, and J. Wilson. 2008. National Estuaries. In: *Preliminary review of adaptation options for climate-sensitive ecosystems and resources*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research [Julius, S.H., J.M. West (eds.), J.S. Baron, L.A. Joyce, P. Kareiva, B.D. Keller, M.A. Palmer, C.H. Peterson, and J.M. Scott (Authors)]. U.S. Environmental Protection Agency, Washington, DC, USA, pp. 7-1 to 7-108.
- Petterson, J.S., L.D. Stanley, E.G. and J. Philipp. 2006. A Preliminary Assessment of Social and Economic Impacts Associated with Hurricane Katrina. *American Anthropologist* 108(4): 643–670.
- Pew Center on Global Climate Change. 2007. Sea Level Rise — The State of the Science. Pew Center on Global Climate Change, Arlington, VA, U.S.A.  
[www.pewclimate.org/docUploads/SLR\\_fact\\_sheet\\_020207.pdf](http://www.pewclimate.org/docUploads/SLR_fact_sheet_020207.pdf).
- Pinho, O.S., and Orgaz, M.D. 2000. The urban heat island in a small city in coastal Portugal. *International Journal of Biometeorology* 44(4): 198–203.
- Pope, C.A., and Dockery, D.W. 2006. Health effects of fine particulate air pollution: Lines that connect. *Journal of Air and Waste Management Association* 54: 709–742.
- Pope, C.A., III, Burnett, R.T., Thurston, G.D., Thun, M.J., Calle, E.E., Krewski, D., and Godleski, J.J. 2004. Cardiovascular mortality and long-term exposure to particulate air pollution: epidemiological evidence of general pathophysiological pathways of disease. *Circulation*. 109(1): 71–7.
- Pope, C.A., III, Burnett, R.T., Thun, M.J., Calle, E.E., Krewski, D., Ito, K., and Thurston, G.D. 2002. Lung cancer, cardiopulmonary mortality, and long-term exposure to fine particulate air pollution. *Journal of the American Medical Association* 287: 1132–1141.
- Pope, C.A., III, Thun, M., Namboodiri, M., Dockery, D.W., Evans, J.S., Speizer, F.E. and Heath, C.W., Jr. 1995. Particulate air pollution as a predictor of mortality in a prospective study of U.S. adults. *American Journal of Respiratory and Critical Care Medicine* 151: 669–74.

- Pope, C.A., III. 2000. Epidemiology of fine particulate air pollution and human health: biological mechanisms and who's at risk? *Environmental Health Perspectives* 108: 713–723. In: American Lung Association. State of the Air: 2008. Protect the Air you Breathe. <http://www.lungusa2.org/sota/SOTA2008.pdf>.
- Porter, J.R., and M.A. Semenov. 2005. Crop responses to climatic variation. *Philos. T. Royal Soc. B* 360: 2021–2035.
- Post, E. and M. Forchhammer. 2002. Synchronization of animal population dynamics by large-scale climate. *Nature* 420: 168–171.
- Powers, S.E. 2005. Quantifying Cradle-to-Farm Gate Life-Cycle Impacts Associated with Fertilizer Used for Corn, Soybean, and Stover Production. National Renewable Energy Laboratory. Technical Report NREL/TP-510-37500. <http://www1.eere.energy.gov/biomass/pdfs/37500.pdf>.
- Powers, S.E., Hunt, C.S., Heermann, S.E., Corseuil, H.X., Rice, D., Alvarez, P.J.J. 2001. The transport and fate of ethanol and BTEX in groundwater contaminated by gasohol. *Critical Reviews in Environmental Science and Technology* 31(1): 79–123.
- Pruett, L., and Cimino, J. 2000. Coastal Length, Area of Continental Shelf, Territorial Seas, Claimed Exclusive Economic Zone, and Exclusive Fishing Zone. Unpublished data derived from Global Maritime Boundaries Database. Fairfax, VA: Veridian-MRJ Technology Solutions.
- Pukkala, E. 1998. Cancer incidence among Finnish oil refinery workers, 1971–1994. *Journal of Occupation and Environmental Medicine* 40: 8.
- Rahmstorf, S. 2007. A semi-empirical approach to projecting future sea-level rise. *Science* 315(5810): 368–370.
- Randolph, S.E., and Rogers, D.J. 2000. Fragile transmission cycles of tick-borne encephalitis virus may be disrupted by predicted climate change. *Proceedings Biological Sciences/The Royal Society*, 267(1454): 1741–1744.
- Rappengluck, B., Oyola, P., Olaeta, I., and Fabian, P. 2000. The evolution of photochemical smog in the Metropolitan Area of Santiago de Chile. *Journal of Applied Meteorology* 39: 275–290.
- Rauscher, S.A., J.S. Pal, N.S. Diffenbaugh, and M.M. Benedetti. 2008. Future changes in snowmelt-driven runoff timing over the western US. *Geophysical Research Letters* 35(L16703), doi:10.1029/2008GL034424.
- Reading, C.J. 2003. The effects of variation in climatic temperature (1980-2001) on breeding activity and tadpole stage duration in the common toad, *Bufo bufo*. *Science of Total Environment* 310: 231–236.
- Regonda, S.K., Rajagopalan, B., Clark, M., and Pitlick, J. 2005. Seasonal cycle shifts in hydroclimatology over the western United States. *Journal of Climate* 18: 372–384.
- Reid, P., and Vogel, C. 2006. Living and responding to multiple stressors in South Africa—Glimpses from KwaZulu-Natal. *Global Environmental Change* 16: 195–206.

- Reid, W.V., Mooney, H.A., Cropper, A., Capistrano, D., Carpenter, S.R., Chopra, K., Dasgupta, P., Dietz, T., Duraiappah, A.K., Hassan, R., Kasperson, R., Leemans, R., May, R.M., McMichael, A.J., Pingali, P., Samper, C., Scholes, R., Watson, R.T., Zakri, A.H., Shidong, Z., Ash, N.J., Bennett, E., Kumar, P., Lee, M.J., Raudsepp-Hearne, C., Simons, H., Thonell J., and Zurek, M.B. (Editors). 2005. *Ecosystems and Human Well-being: Synthesis*. Island Press, Washington, DC. 155 pp.
- Reiter, P., S. Lathrop, M. Bunning, B. Biggerstaff, D. Singer, T. Tiwari, L. Baber, M. Amador, J. Thirion, J. Hayes, C. Seca, J. Mendez, B. Ramirez, J. Robinson, J. Rawlings, V. Vorndam, S. Waterman, D. Gubler, G. Clark, and E. Hayes, 2003: Teras Lifestyle limits transmission of dengue virus. *Emerg Infect Dis* [serial online] 2003 Jan. <http://www.cdc.gov/ncidod/EID/vol9no1/02-0220.htm>.
- Ren, C., Williams, G.M., and Tong, S. 2006. Does particulate matter modify the association between temperature and cardiorespiratory diseases? *Environmental Health Perspectives* 114(11): 1690–1696.
- Revenga, C., Brunner, J., Kassem, K., and Payne, R. 2000. *Pilot Analysis of Global Ecosystems, Freshwater Systems*. World Resources Institute, Washington, DC, USA.
- Reynard, N., S. Crooks, R. Wilby, and A. Kay. 2004. Climate Change and Flood Frequency in the UK. Proceedings of the 39th DEFRA Flood and Coastal Management Conference, York. Defra, London, 11.1.1–11.1.12.
- RGGI (Regional Greenhouse Gas Initiative). 2006. Preliminary Electricity Sector Modeling Results: Phase III RGGI Reference and Package Scenario. Updated Reference, RGGI Package – 10/11/06, updated 5/22/2007. August 17, 2006. ICF Consulting.
- Richardson, A.J. and Poloczanska, E.S. 2008. Ocean science: Under-resourced, under threat. *Science* 320(5881): 1294–1295.
- Riggs, S.R., and Ames, D.V. 2003. Drowning of North Carolina; Sea-Level Rise and Estuarine Dynamics. N.C. Sea Grant College Program, Raleigh, N.C., Pub. No. UNC-SG-03-04, 152 p. In: Gutierrez, B., Williams, S., and Thieler, E. 2007. Potential for shoreline changes due to sea-level rise along the U.S. Mid-Atlantic Region. U.S. Geological Survey. Open-File Report 2007-1278 [as cited in Gutierrez, B., Williams, S., and Thieler, E. 2007. Potential for shoreline changes due to sea-level rise along the U.S. Mid-Atlantic Region. U.S. Geological Survey. Open-File Report 2007-1278 ]
- Rocky Mountain Climate Organization. 2008. Hotter and Drier - The West's Changed Climate. <http://www.nrdc.org/globalWarming/west/west.pdf>.
- Rogers, C., Wayne, P., Macklin, E., Muilenberg, M., Wagner, C., Epstein, P., and Bazzaz, F. 2006a. Interaction of the onset of spring and elevated atmospheric CO<sub>2</sub> on ragweed (*Ambrosia artemisiifolia* L.) pollen production. *Environmental Health Perspectives* 114: 865–869.
- Rogers, D.J., Wilson, A.J, Hay, S.I., and Graham, A.J. 2006b. The global distribution of yellow fever and dengue. *Advances in Parasitology* 62: 181–220.
- Ron, S.R., Duellman, W.E., Coloma, L.A., and Bustamante, M.R. 2003. Population decline of the Jambato toad *Atelopus ignescens* (Anura: Bufonidae) in the Andes of Ecuador. *J. Herpetol.* 37: 116–126.

- Rood, S.B., Samuelson, G.M., Weber, J.K., and Wywrot, K.A. 2005. Twentieth-century decline in streamflows from the hydrographic apex of North America. *Journal of Hydrology* 306: 215–233.
- Rosenzweig, C. and Hillel, D. 1998. *Climate Change and the Global Harvest: Potential Impacts of the Greenhouse Effect on Agriculture*, Oxford University Press, New York.
- Rosenzweig, C. and D. Hillel. 2005a. Global warming and agriculture. In *Perspectives in World Food and Agriculture, Volume 2*. J.A. Miranowski and C.G. Scanes, Eds. Blackwell Publishing, pp. 183–209.
- Rosenzweig, C. and Hillel, D. 2005b. Climate change, agriculture and sustainability. In *Climate Change and Global Food Security*. R. Lal, N. Uphoff, B.A. Stewart, and D.O. Hansen, Eds. Taylor & Francis, pp. 243–268.
- Rosenzweig, C. and W.D. Solecki (eds.). 2001. *Climate change and a Global city: The Potential Consequences of Climate Variability and Change — Metro East Coast (MEC)*. Report of the U.S. Global Change Research Program, National Assessment of Possible Consequences of Climate Variability and Change for the United States, New York: Columbia Earth Institute.
- Rosenzweig, C., Casassa, G., Karoly, D.J., Imeson, A., Liu, C., Menzel, A., Rawlins, S., Root, T.L., Seguin, B., and Tryjanowski, P. 2007. Assessment of observed changes and responses in natural and managed systems. [as cited in IPCC, 2007. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson (Eds.), Cambridge University Press, Cambridge, UK, pp. 79–131.
- Ruth, M., B. Davidsdottir, and A. Amato. 2004. Climate change policies and capital vintage effects: the case of U.S. pulp and paper, iron and steel, and ethylene. *J. Environ. Manage.* 70: 235–252.
- Ruth, M., C. Bernier, N. Jollands, N. Golubiewski. 2007. Adaptation to urban water supply infrastructure to impacts from climate and socioeconomic changes: The case of Hamilton, New Zealand. *Water Resources Management* (21): 1031–1045.
- Ryall, D.B., Derwent, R.G., Manning, A.J., Redington, A.L., Corden, J., Millington, W., Simmonds, P.G., O’Doherty, S., Carslaw, N., and Fuller, G.W. 2002. The origin of high particulate concentrations over the United Kingdom, March 2000. *Atmospheric Environment* 36: 1363–1378.
- Ryan, M.G., Archer, S.R., Birdsey, R.A., Dahm, C.N., Heath, L.S., Hicke, J.A., Hollinger, D.Y., Huxman, T.E., Okin, G.S., Oren, R., Randerson, J.T., and Schlesinger, W.H. 2008. Land resources. In: *The Effects of Climate Change on Agriculture, Land Resources, Water Resources, and Biodiversity*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research, Washington, DC. 362 pp.
- Rybnicek, O., and Jaeger, S. 2001. *Ambrosia* (ragweed) in Europe. *ACI International* 13: 60–66.
- Sabine, C.L., Heimann, M., Artaxo, P., Bakker, D.C.E., Chen, C.T.A., Field, C.B., and Gruber, N. 2004. Current status and past trends of the global carbon cycle. In: *Global Carbon Cycle: Integrating Humans, Climate, and the Natural World*, Field, C.B., and Raupach, M.R. (Editors). Island Press, Washington, DC, USA, pp. 17–44.

- Sacks, W., Schimel, D., and Monson, R. 2007. Coupling between carbon cycling and climate in a high elevation, subalpine forest: a model-data fusion analysis. *Oecologia* 151(1): 54–68.
- Saito, Y. 2001. Deltas in Southeast and East Asia: Their evolution and current problems. In: Proceedings of the APN/SURVAS/LOICZ Joint Conference on Coastal Impacts of Climate Change and Adaptation in the Asia–Pacific Region, 14–16 November 2000, Kobe, Japan, Asia Pacific Network for Global Change Research, pp. 185–191.
- Salam, M.T., Islam, T. and Frank D. Gilliland. 2008. Recent evidence for adverse effects of residential proximity to traffic sources on asthma. *Current Opinion in Pulmonary Medicine* 14:3–8.
- Samet, J.M. 2007. Traffic, air pollution, and health. *Inhalation Toxicology* 19: 1021–1027.
- Samet, J.M., Domenici, F., Curriero, F., Coursac, I., and Zeger, S.L. 2000. Fine Particulate Air Pollution and Mortality in 20 U.S. Cities, 1987–1994. *New England Journal of Medicine* 343: 1742–1749.
- Saunders, S., Montgomery, C., Easley, T., and Spencer, T. 2008. Hotter and Drier: The West’s Changed Climate. The Rocky Mountain Climate Organization and Natural Resources Defense Council, New York, NY, USA, 54 pp.
- Scavia, D., Field, J.C., Boesch, D.F., Buddemeier, R.W., Burkett, V., Cayan, D.R., Fogarty, M., Harwell, M.A., Howarth, R.W., Mason, C., Reed, D.J., Royer, T.C., Sallenger, A.,H., and Titus, J.G. 2002. Climate change impacts on US coastal and marine ecosystems. *Estuaries* 25: 149–164.
- Schexnayder, S.M., Das, S., Dhingra, R., Overly, J.G., Tonn, B.E., Peretz, J.H., Waidley, G., and G.A. Davis. 2001. Environmental Evaluation of New Generation Vehicles and Vehicle Components. Oak Ridge National Laboratory, prepared for U.S. Department of Energy. [http://cta.ornl.gov/cta/Publications/Reports/ORNL\\_TM\\_2001\\_266.pdf](http://cta.ornl.gov/cta/Publications/Reports/ORNL_TM_2001_266.pdf).
- Schimel, D., Melillo J., Tian, H., McGuire, A.D., Kicklighter, D., Kittel, T., Rosenbloom, N., Running, S., Thornton, P., Ojima, D., Parton, W., Kelly, R., Sykes M., Neilson, R., and Rizzo, B. 2000. Contribution of increasing CO<sub>2</sub> and climate to carbon storage by ecosystems in the United States. *Science* 287: 2004–2006.
- Schneeberger, C., H. Blatter, A. Abe-Ouchi, and M. Wild. 2003. Modelling changes in the mass balance of glaciers of the northern hemisphere for a transient 2× CO<sub>2</sub> scenario. *J. Hydrol.* 282: 145–163.
- Schneider, S.H. and Londer, R. 1984. *The Coevolution of Climate and Life*, San Francisco. Sierra Club Books.
- Schneider, S.H., and Root, T.L. 1996. Ecological implications of climate change will include surprises. *Biodiversity and Conservation* 5: 1109–1119.
- Schneider, S.H., S. Semenov, A. Patwardhan, I. Burton, C.H.D. Magadza, M. Oppenheimer, A.B. Pittock, A. Rahman, J.B. Smith, A. Suarez and F. Yamin, 2007: Assessing key vulnerabilities and the risk from climate change. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, 779–810.



- Schneider, D.P., and E.J. Steig. 2008. Ice cores record significant 1940s Antarctic warmth related to tropical climate variability. *PNAS* 105(34):12154–12158.
- Schröter, D., Cramer, W., Leemans, R., Prentice, I.C., Araújo, M.B., Arnell, N.W., Bondeau, A., Bugmann, H., Carter, T.R., Gracia, C.A., de la Vega-Leinert, A.C., Erhard, M., Ewert, F., Glendining, M., House, J.J., Kankaanpää, S., Klein, R.J.T., Lavorel, S., Lindner, M., Metzger, M.J., Meyer, J., Mitchell, T.D., Reginster, I., Rounsevell, M., Sabaté, S., Sitch, S., Smith, B., Smit, J., Smith, P., Sykes, M.T., Thonicke, K., Thuiller, W., Tuck, G., Zaehle, S., and Zierl, B. 2005. Ecosystem service supply and vulnerability to global change in Europe. *Science* 310: 1333–1337.
- Schwartz, J. 2005. Who is sensitive to extremes of temperature? A case-only analysis. *Epidemiology* 16(1): 67–72.
- Schwartz, M.D., and Reiter, B.E. 2000. Changes in North American spring. *International Journal of Climatology* 20: 929–932.
- Schwartz, J., Samet, J.M., and Patz, J.A. 2004a. Hospital admissions for heart disease: The effects of temperature and humidity. *Epidemiology* 15(6): 755–761.
- Schwartz, R.C., P.J. Deadman, D.J. Scott, and L.D. Mortsch. 2004b. Modeling the impacts of water level changes on a Great Lakes community. *J. Am. Water Resour. As.* 40: 647–662.
- Scibek, J., and D.M. Allen. 2006. Comparing modelled responses of two high-permeability, unconfined aquifers to predicted climate change. *Global and Planetary Change* 50: 50–62.
- Science Daily. 2007. Elevated carbon dioxide changes soil microbe mix below plants may help plants grow. <http://www.sciencedaily.com/releases/2007/12/071219105808.htm>.
- Scott, J. 1986. *The Butterflies of North America, A Natural History and Field Guide*. Stanford, California: Stanford University Press.
- Semenov, S.M., Gelver, E.S., and Yasyukevich, V.V. 2002. Temperature conditions for development of two species of malaria pathogens in Russia in 20th century. *Doklady Akademii Nauk* 387: 131–136.
- Semenza, J.C., McCullough, J.E., Flanders, W.D., McGeehin, M.A., and Lumpkin, J.R. 1999. Excess hospital admissions during the July 1995 heat wave in Chicago. *American Journal of Preventive Medicine* 16(4): 269–277.
- Semenza, J.C., Rubin, C.H., Falter, K.H., Selanikio, J.D., Flanders, W.D., Howe, H.L., and Wilhelm, J.L. 1996. Heat-related deaths during the July 1995 heat wave in Chicago. *New England Journal of Medicine* 335(2): 84–90.
- Sénat. 2004. Information report no. 195 – France and the French face the canicule: the lessons of a crisis: appendix to the minutes of the session of February 3, 2004, 59-62. <http://www.senat.fr/rap/r03-195/r03-195.html>.
- Shepherd, A., and Wingham. 2007. Recent sea-level contributions of the Antarctic and Greenland Ice Sheets. *Science* 315: 1529–1532. <http://www.sciencemag.org/cgi/content/abstract/315/5818/1529>.

- Sheridan, S., and Dolney, T. 2003. Heat, mortality, and level of urbanization: measuring vulnerability across Ohio, USA. *Climate Research* 24: 255–266.
- Sherman, K. 1993. Large Marine Ecosystems as Global Units for Marine Resource Management – An Ecological Perspective. In: Sherman, K., Alexander, L., and Gold, B. (Editors). *Large Marine Ecosystems: Stress, Mitigation and Sustainability*. Washington, DC: American Academy for the Advancement of Science.
- Shiklomanov, I.A. and Rodda, J.C. (Editors). 2003. *World Water Resources at the Beginning of the 21st Century*. Cambridge University Press, Cambridge. As Cited in Kundzewicz, Z.W., Mata, L.J., Arnell, N.W., Döll, P., Kabat, P., Jiménez, B., Miller, K.A., Oki, T., Sen, Z., and Shiklomanov, I.A. 2007. Freshwater resources and their management. In: IPCC, 2007: *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson, (Eds.), Cambridge University Press, Cambridge, UK, pp. 173–210.
- Shinn, E.A., Griffin, D.W., and Seba, D.B. 2003. Atmospheric transport of mold spores in clouds of desert dust. *Archives of Environmental Health* 58: 498–504.
- Shirayama, Y. and H. Thornton. 2005. Effect of increased atmospheric CO<sub>2</sub> on shallow water marine benthos. *Journal of Geophysical Research* 110(C9). Cited In: Keller, B.D., S. Aíramé, B. Causey, A. Friedlander, D.F. Gleason, R. Grober-Dunsmore, J. Johnson, E. McLeod, S.L. Miller, R.S. Steneck, and C. Woodley, 2008: Marine Protected Areas. In: *Preliminary review of adaptation options for climate sensitive ecosystems and resources*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research [Julius, S.H., J.M. West (eds.), J.S. Baron, B. Griffith, L.A. Joyce, P. Kareiva, B.D. Keller, M.A. Palmer, C.H. Peterson, and J.M. Scott (Authors)]. U.S. Environmental Protection Agency, Washington, DC, USA, pp. 8-1 to 8-95.]
- Simón, F., López-Abente, G., Ballester, E., and Martínez, F. 2005. Mortality in Spain during the heatwaves of summer 2003. *Eurosurveillance* 10: 156–160.
- Simpson, T.W., Sharpley, A.N., Howarth, R.W., Paerl, H.W., and Mankin, K.R. 2008. The new gold rush: Fueling ethanol production while protecting water quality. *Journal of Environmental Quality* 37: 318–324.
- Singer, B.D., Ziska, L.H., Frenz, D.A., Gebhard, D.E., and Straka, J.G. 2005. Increasing Amb a 1 content in common ragweed (*Ambrosia artemisiifolia*) pollen as a function of rising atmospheric CO<sub>2</sub> concentration. *Functional Plant Biology* 32: 667–670.
- Singh, P., and L. Bengtsson. 2003. Effect of warmer climate on the depletion of snowcovered area in the Satluj basin in the western Himalayan region. *Hydrol. Sci. J.* 48: 413–425.
- Singh, P., and Kumar, N. 1997. Impact assessment of climate change on the hydrological response of a snow and glacier melt runoff dominated Himalayan river. *J. Hydrol.* 193: 316–350.
- Small, C., and Nicholls, R.J. 2003. A global analysis of human settlement in coastal zones. *Journal of Coastal Research* 19: 584–599.

- Small, K.A., and van Dender, K. 2005a. A Study to Evaluate the Effect of Reduced Greenhouse Gas Emissions on Vehicle Miles Traveled. State of California Air Resources Board, California Environmental Protection Agency, and the California Energy Commission.
- Small, K., and van Dender, K. 2005b. The Effect of Improved Fuel Economy on Vehicle Miles Traveled: Estimating the Rebound Effect Using U.S. State Data, 1966-2001. University of California Energy Institute's (UCEI) Energy Policy and Economics Working Paper Series. [www.ucei.berkeley.edu/PDF/EPE\\_014.pdf](http://www.ucei.berkeley.edu/PDF/EPE_014.pdf).
- Smith, Bob. 2002. Statement of Senator Bob Smith, Environment & Public Works Committee Hearing on Transportation & Air Quality, July 30, 2002. In FHWA, *Vehicle Miles Traveled (VMT) and Vehicle Emissions*. <http://www.fhwa.dot.gov/environment/vmtems.htm> June 22, 2008.
- Sohngen, B., and Sedjo, R. 2005. Impacts of climate change on forest product markets: Implications for North American producers. *Forestry Chronicle* 81: 669–674.
- Solomon, S., D. Qin, M. Manning, R.B. Alley, T. Berntsen, N.L. Bindoff, Z. Chen, A. Chidthaisong, J.M. Gregory, G.C. Hegerl, M. Heimann, B. Hewitson, B.J. Hoskins, F. Joos, J. Jouzel, V. Kattsov, U. Lohmann, T. Matsuno, M. Molina, N. Nicholls, J. Overpeck, G. Raga, V. Ramaswamy, J. Ren, M. Rusticucci, R. Somerville, T.F. Stocker, P. Whetton, R.A. Wood and D. Wratt. 2007. Technical Summary. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the intergovernmental Panel on Climate Change* [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Soulsby, C., C. Gibbins, A. Wade, R. Smart, and R. Helliwell. 2002. Water quality in the Scottish uplands: a hydrological perspective on catchment hydrochemistry. *Sci. Total Environ.* 294: 73–94.
- Speelmon, E.C., Checkley, W., Gilman, R.H., Patz, J., Calderon, M., and Manga, S. 2000. Cholera incidence and El Niño-related higher ambient temperature. *Journal of the American Medical Association* 283: 3072–3074.
- Sperling, F. and F. Szekely. 2005. Disaster risk management in a changing climate. Preprints, World conference on Disaster Reduction, Kobe, Vulnerability and Adaptation Resource Group (VARG), World Bank, Washington, District of Columbia, 45 pp.
- Srinivasan, S., O'Fallon, L.R., and Dearry, A. 2003. Creating Healthy Communities, Healthy Homes, Healthy People: Initiating a Research Agenda on the Built Environment and Public Health. *American Journal of Public Health* 93(9): 1446–1450. <http://www.ajph.org/cgi/content/full/93/9/1446#R48>.
- Stefanescu, C., J. Peñuelas and I. Filella. 2003. Effects of climatic change on the phenology of butterflies in the northwest Mediterranean Basin. *Glob. Change Biol.* 9: 1494-1506.
- Steffensen, J.P., K.K. Andersen, M. Bigler, H.B. Clausen, D. Dahl-Jensen, H. Fischer, K. Goto-Azuma, M. Hansson, S.J. Johnsen, J. Jouzel, V. Masson-Delmotte, T. Popp, S.O. Rasmussen, R. Röthlisberger, U. Ruth, B. Stauffer, M.L. Siggaard-Andersen, A.E. Sveinbjörnsdóttir, A. Svensson, J.W.C. White. 2008. High-Resolution Greenland Ice Core Data Show Abrupt Climate Change Happens in Few Years. *Science* 321(5889):680–684.

- Stenseth, N.C. and A. Mysterud. 2002. Climate, changing phenology, and other life history traits: nonlinearity and match-mismatch to the environment. *Proceedings of the National Academy of Sciences* 99: 13379–13381.
- Stewart, I.T., Cayan, D.R., and Dettinger, M.D. 2005. Changes toward earlier streamflow timing across western North America. *Journal of Climate* 18: 1136–1155.
- Stohl, A., Haimberger, L., Scheele, M., and Wernli, H. 2001. An intercomparison of results from three trajectory models. *Journal of Applied Meteorology* 8: 127–135.
- Stouffer, R.J., and S. Manabe. 2003. Equilibrium response of thermohaline circulation to large changes in atmospheric CO<sub>2</sub> concentration. *Clim. Dyn.* 20: 759–773.
- Sturm, M., Racine, C. and Tape, K. 2001. Climate change: increasing shrub abundance in the Arctic. *Nature* 411: 546–547.
- Subramanian, R. 2008. Fatalities and Fatality Rates in Alcohol-Impaired Crashes by State, 2005–2006. NHTSA (National Highway Traffic Safety Administration) Traffic Safety Facts: Research Note. DOT HS 810 920. February. <http://www-nrd.nhtsa.dot.gov/Pubs/810920.PDF>.
- Summers, J.K., Burgan, B., Brown, D., Bigler, J., Pesch, G.G., Walker, H.A., Kiddon, J.A., Harvey, J.E., Garza, C., Engle, V.D., Smith, L.M., Harwell, L.C., Nelson, W.G., Lee, H., and Lambertson, J. 2004. National Coastal Condition Report II. U.S. Environmental Protection Agency, Washington, DC, EPA-620/R-03/002. <http://www.epa.gov/owow/oceans/nccr/2005/downloads.html>.
- Sussman, F., Cropper, M., Galbraith, H., Godschalk, D., Loomis, J., Luber, G., McGeehin, M., Neumann, J., Shaw, W.D., Vedlitz, A., and Zahran S. 2008. Effects of Global Change on Human Welfare. *Analyses of the effects of global change on human health and welfare and human systems. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research.* [Galble, J.L. (ed.), K.L. Ebi, F.G. Sussman, T.J. Wilbanks, (Authors)]. U.S. Environmental Protection Agency, Washington, D.C., USA.
- Swetnam, T.W., and Betancourt, J.L. 1998. Mesoscale disturbance and ecological response to decadal climatic variability in the American Southwest. *Journal of Climate* 11: 3128–3147.
- Tamarcaz, P., Lambelet, B., Clot, B., Keimer, C., and Hauser, C. 2005. Ragweed (*Ambrosia*) progression and its health risks: will Switzerland resist this invasion? *Swiss Medical Weekly* 135: 538–548.
- Thanh, T.D., Saito, Y., Huy, D.V., Nguyen, V.L., Oanh, T.K.O., and Tateishi, M. 2004. Regimes of human and climate impacts on coastal changes in Vietnam. *Regional Environmental Change* 4: 49–62.
- Thompson, J.R., Randa, M.A., Marcelino, L.A., Tomita-Mitchell, A., Lim, E., and Polz, M.F. 2004. Diversity and dynamics of a North Atlantic coastal *Vibrio* community. *Applied and Environmental Microbiology* 70(7): 4103–4110.
- Thomson, M.C., Mason, S.J., Phindela, T., and Connor, S.J. 2005. Use of rainfall and sea surface temperature monitoring for malaria early warning in Botswana. *American Journal of Tropical Medicine and Hygiene* 73: 214–221.

- Tibbetts, J. 2004. The state of the ocean, Part 2: Delving deeper into the sea's bounty. *Environmental Health Perspectives* 112(8): 4. [http://findarticles.com/p/articles/mi\\_m0CYP/is\\_8\\_112/ai\\_n15688532](http://findarticles.com/p/articles/mi_m0CYP/is_8_112/ai_n15688532).
- Timoney, K.P. 2003. An Environmental Assessment of High conservation Value Forests in the Alberta Portion of the Mid-Continental Canadian Boreal Forest Ecoregion. Report for World Wildlife Fund (Toronto, Ontario) and Alberta-Pacific Forest Industries (Boyle, Alberta).
- Titus, J.G., *et al.* 2008. Coastal Elevations and Sensitivity to Sea Level Rise. Synthesis and Assessment Product 4.1 by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research, Washington, DC, USA (peer-reviewed draft report).
- Tol, R.S.J. 2008: The Social Cost of Carbon: Trends, Outliers, and Catastrophes. *Economics -- the Open-Access, Open-Assessment E-Journal* 2 (25): 1-24. <http://www.economics-ejournal.org/economics/journalarticles/2008-25/view>.
- Tol, R.S.J. 2007. The Social Cost of Carbon: Trends, Outliers and Catastrophes. Economics Discussion Papers, No 2007-44. <http://www.economics-ejournal.org/economics/discussionpapers/2007-44>.
- Tol, R.S.J. 2005. The marginal damage costs of carbon dioxide emissions: An assessment of Uncertainties. *Energy Policy* 33, 2064-2074, 2072.
- Tol, R.S.J. 2002a. Estimates of the damage costs of climate change, Part I: Benchmark Estimates. *Environ. Resour. Econ.* 21: 47-73.
- Tol, R.S.J. 2002b. Estimates of the damage costs of climate change, Part II: Dynamic Estimates. *Environ. Resour. Econ.* 21: 135-160.
- Tol, R.S.J. and G.W. Yohe. 2006. A Review of the *Stern Review*. *World Economics* 7(3): 233-250.
- Transportation Research Board. 2008. Potential Impacts of Climate Change on U.S. Transportation. Transportation Research Board Special Report 290, Washington, DC.
- Trapp, R.J., N.S. Diffenbaugh, H.E. Brooks, M.E. Baldwin, E.D. Robinson, and J.S. Pal. 2007. Severe thunderstorm environment frequency during the 21st century caused by anthropogenically enhanced global radiative forcing. *PNAS*, 104 (50): 19719-19723.
- Trenberth, K.E., Dai, A.G., Rasmussen, R.M., and Parsons, D.B. 2003. The changing character of precipitation. *B. Am. Meteorol. Soc.* 84: 1205-1217.
- Trenberth, K.E., P.D. Jones, P. Ambenje, R. Bojariu, D. Easterling, A. Klein Tank, D. Parker, F. Rahimzadeh, J.A. Renwick, M. Rusticucci, B. Soden, and P. Zhai. 2007. Observations: Surface and atmospheric climate change. In: IPCC, 2007. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, Solomon, S., Qin, D., Manning, M., Chen, Z., Marquis, M., Averyt, K.B. Tignor, M., and Miller, H.L. (Editors), Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 235-336.
- Triggs, J.M., B.A. Kimball, P.J. Pinter, Jr., G.W. Wall, M.M. Conley, T.J. Brooks, R.L. LaMorte, N.R. Adam, M.J. Ottman, A.D. Matthias, S.W. Leavitt and R.S. Cerveny. 2004. Free-Air CO<sub>2</sub>

- Enrichment Effects on the Energy Balance and Evapotranspiration of Sorghum. *Agricultural and Forest Meteorology* 124(2): 63–79.
- Tryjanowski, P., M. Rybacki and T. Sparks. 2003. Changes in the first spawning dates of common frogs and common toads in western Poland in 1978–2002. *Ann. Zool. Fenn.* 40: 222–227.
- Tu, F., Thornton, D., Brandy, A., and Carmichael, G. 2004. Long-range transport of sulphur dioxide in the central Pacific. *Journal of Geophysical Research D.* 109: D15S08.
- Tubiello, F.N. 2005. Climate variability and agriculture: Perspectives on current and future challenges. In: *Impact of Climate Change, Variability and Weather Fluctuations on Crops and Their Produce Markets*, Knight, B. (Editor), Impact Reports, Cambridge, UK, pp. 45–63.
- Tuffs, A. and Bosch, X. 2002. Health authorities on alert after extensive flooding in Europe. *British Medical Journal* pp. 325–405.
- Tuyet, D.T., Thiem, V.D., Von Seidlein, L., Chowdhury, A., Park, E., Canh, D.G., Chien, B.T., Van Tung, T., Naficy, A., Rao, M.R., Ali, M., Lee, H., Sy, T.H., Nichibuchi, M., Clemens, J., and Trach, D.D. 2002. Clinical, epidemiological, and socioeconomic analysis of an outbreak of *Vibrio parahaemolyticus* in Khanh Hoa Province, Vietnam. *Journal of Infectious Diseases* 186: 1615–1620.
- U.S. Government Accountability Office (US GAO). 2007. Climate Change: Financial Risks to Federal and Private Insurers in Coming Decades Are Potentially Significant. <http://www.gao.gov/new.items/d07820t.pdf>.
- UNESCO (United National Educational, Scientific and Cultural Organization) and WWAP (World Water Assessment Program). 2006. Water a Shared Responsibility: The United Nations World Water Development Report 2. <http://unesdoc.unesco.org/images/0014/001454/145405E.pdf>.
- UN-Habitat. 2003. The Challenge of Slums: Global report on human Settlements 2003. Earthscan Publications, London, 352 pp.
- Union of Concerned Scientists. 2007. New Jersey: Confronting Climate change in the U.S. Northeast. Science, Impacts, and Solutions. Report of the Northeast Climate Impacts Assessment (NECIA).
- Unsworth, J., Wauchope, R., Klein, A., Dorn, E., Zeeh, B., Yeh, S., Akerblom, M., Racke, K., and Rubin, B. 2003. Significance of the long range transport of pesticides in the atmosphere. *Pest Management Science* 58: 314.
- US Department of Health and Human Services. 2007. Agency for Healthcare Research and Quality. Pediatric terrorism and disaster preparedness: a resource guide for pediatricians. [www.ahrq.gov/research/pedprep/resource.htm](http://www.ahrq.gov/research/pedprep/resource.htm). American Academy of Pediatrics. 2007. Global Climate Change and Children's Health. *Pediatrics* 120: 1149-1152.
- USFS (United States Forest Service). 2008. Beetle Epidemic: introduction. <http://www.fs.fed.us/r2/mbr/resources/BarkBeetles/index.shtml>.
- USFWS (U.S. Fish and Wildlife Service). 1988. Endangered Species Information Booklet: Piping Plover. U.S. Fish and Wildlife Service Arlington, Virginia.

- USGS (U.S. Geological Survey). 2004. Estimated Use of Water in the United States in 2000, USGS Circular 1268, Washington, DC: U.S. Geological Survey.
- Vaccaro, J. 1992. Sensitivity of groundwater recharge estimates to climate variability and change, Columbia Plateau, Washington. *Journal of Geophysical Research* 97: 2821–2833.
- van Auken, R.M., and Zellner, J.W. 2005. Supplemental Results on the Independent Effects of Curb Weight, Wheelbase, and Track on Fatality Risk in 1985–1998 Model Year Passenger Cars and 1985–1997 Model Year LTVs. DRI-TR-05-01. Torrance, California: Dynamic Research, Inc. *Docket No. 2003-16128-1456*.
- Van Dam, H. 1996. Partial recovery of moorland pools from acidification: Indications by chemistry and diatoms. *Aquatic Ecology* 30(2–3): 203–218.
- van Wuijckhuise, L., Dercksen, D., Muskens, J., de Bruyn, J., Scheepers, M., and Vrouenraets, R. 2006. Bluetongue in the Netherlands; description of the first clinical cases and differential diagnosis; Common symptoms just a little different and in too many herds. *Tijdschr. Diergeneesd.* 131: 649–654.
- Vandentorren, S., Suzan, F., Medina, S., Pascal, M., Maulpoix, A., Cohen, J.C., and Ledrans, M. 2004. Mortality in 13 French cities during the August 2003 heatwave. *American Journal of Public Health* 94: 1518–1520.
- Vila, M., Corbin, J.D., Dukes, J.S., Pino, J., and Smith, S.D. 2007. Linking plant invasions to global environmental change. In: *Terrestrial Ecosystems in a Changing World*, Canadell, J., Pataki, D., and Pitelka, L. (Editors). Springer, New York.
- Viosin, N., A.F. Hamlet, L.P. Graham, D.W. Pierce, T.P. Barnett, and D.P. Lettenmaier. 2006. The role of climate forecasts in western U.S. power planning. *J. Appl. Meteorol.* 45: 653–673.
- Visser, M.E., C. Both, and M.M. Lambrechts. 2004. Global climate change leads to mistimed avian reproduction. *Advances in Ecological Research* 35: 89–110.
- Visser, M.E., and C. Both. 2005. Shifts in phenology due to global climate change: the need for a yardstick. *Proceedings of the Royal Society of London* 272: 2561–2569.
- Visser, M.E., L.J.M. Holleman, and P. Gienapp, 2006: Shifts in caterpillar biomass phenology due to climate change and its impact on the breeding biology of an insectivorous bird. *Oecologia*, 147: 164–172.
- Vitousek, P. M., Mooney, H.A., Lubchenco, J., and Melillo, J.M. 1997. Human domination of Earth's ecosystems. *Science* 277: 494–499.
- Vitousek, P.M, H.A. Monney, J. Lubchenco, J.M. Melillo. 2007. Human Domination of Earth's Ecosystems. *Science* 25: 277(5345): 494–499.  
<http://www.mk.geog.uu.nl/homepages/Peter/teaching/Themes/Vitousek.pdf>.
- Vitousek, P.M. 1994. Beyond Global Warming: Ecology and Global Change.  
<http://www.jstor.org/pss/1941591>.

- Vogel, C. 2005. "Seven fat years and seven lean years?" Climate change and agriculture in Africa. *IDS Bulletin-Institute of Development Studies* 36: 30–35.
- Volney, W.J.A., and Fleming, R.A. 2000. Climate change and impacts of boreal forest insects. *Agriculture, Ecosystems & Environment* 82: 283–294.
- von Braun, J., and Pachauri, R.K. 2006. The Promises and Challenges of Biofuels for the Poor in Developing Countries. International Food Policy Research Institute 2005–2006 Annual Report Essay. [http://www.ifpri.org/pubs/books/ar2005/ar2005\\_essay.asp#dl](http://www.ifpri.org/pubs/books/ar2005/ar2005_essay.asp#dl).
- Vose, R., Karl, T., Easterling, D., Williams, C., and Menne, M. 2004. Climate (communication arising): Impact of land-use change on climate. *Nature* 427(6971): 213–214.
- Vuglinsky, V., and T. Gronskeya. 2005. Strategic Forecast up to 2010–2015 on the Effect of Expected Climate Changes on the Economy of Russia. ROSHYDROMET, Moscow (in Russian).
- Walker, R.R. 2001. Climate change assessment at a watershed scale. Water and Environment Association of Ontario Conference, Toronto, Canada, 12 pp.
- Walter, K.M., L.C. Smith, and F.S. Chapin, III. 2007. Methane bubbling from northern lakes: present and future contributions to the global methane budget. *Philosophical Transactions of the Royal Society A* 365:1657–1676.
- Walter, K.M., L.C. Smith, and F.S. Chapin, III. 2007. Methane bubbling from northern lakes: present and future contributions to the global methane budget. *Philosophical Transactions of the Royal society A* 365:1657–1676.
- Walter, M.T., D.S. Wilks, J.Y. Parlange, and B.L. Schneider. 2004. Increasing evapotranspiration from the conterminous United States. *J. Hydrometeorol.* 5: 405–408.
- Wan, S.Q., Yuan, T., Bowdish, S., Wallace, L., Russell, S.D., and Luo, Y.Q. 2002. Response of an allergenic species *Ambrosia psilostachya* (Asteraceae), to experimental warming and clipping: implications for public health. *American Journal of Botany* 89: 1843–1846.
- Wardle, D.A., Bardgett, R.D., Klironomos, J.N., Setälä, H., van der Putten, W.H., and Wall, D.H. 2004. Ecological linkages between aboveground and belowground biota. *Science* 304(5677): 1629–1633.
- Watkins, S.J., Byrne, D., and McDevitt, M. 2001. Winter excess morbidity: is it a summer phenomenon? *Journal of Public Health Medicine* 23(3): 237–241.
- Wayne, P., Foster, S., Connolly, J., Bazzaz, F., and Epstein, P. 2002. Production of allergenic pollen by ragweed (*Ambrosia artemisiifolia* L.) is increased in CO<sub>2</sub>-enriched atmospheres. *Annals of Allergy, Asthma and Immunology* 88: 279–282.
- WCI (Western Climate Initiative). 2007a. Frequently Asked Questions: Western Climate Initiative To Reduce Greenhouse Gases. California Environmental Protection Agency.
- WCI (Western Climate Initiative). 2007b. Western Climate Initiative of Regional Goal. August 22, 2007. <http://www.westernclimateinitiative.org/ewebeditpro/items/0104F13006.pdf>.



- Weber, R.G. 2001. Preconstruction horseshoe crab egg density monitoring and habitat availability at Kelly Island, Port Mahon, and Broadkill Beach Study areas. Prepared for the Philadelphia District Corps of Engineers, Philadelphia, PA. December.
- Weber, R.W. 2002. Mother Nature strikes back: global warming, homeostasis, and implications for allergy. *Annals of Allergy, Asthma and Immunology* 88: 251–252.
- Weiss S.B. 1999. Cars, cows, and checkerspot butterflies: nitrogen deposition and management of nutrient-poor grasslands for a threatened species. *Conservation Biology* 13(6): 1746–1486.
- Wentz, F.J., Ricciardulli, L., Hilburn, K., and Mears, C. 2007. How much more rain will global warming bring? *Science* 317(5835): 233–235. <http://www.sciencemag.org/cgi/content/abstract/1140746>.
- Westerling, A.L., Hidalgo, H.G., Cayan, D.R., and Swetnam, T.W. 2006. Warming and earlier spring increase western U.S. forest wildfire activity. *Science* 313: 940–943.
- Westerling, A., and Bryant, B. 2006. Climate Change and Wildfire in and Around California: Fire Modeling and Loss Modeling. California Climate Change Center.
- White, N., Sutherst, R.W., Hall, N., and Whish-Wilson, P. 2003. The vulnerability of the Australian beef industry to impacts of the cattle tick (*Boophilus microplus*) under climate change. *Climatic Change* 61: 157–190.
- Whitman, S., Good, G., Donoghue, E.R., Benbow, N., Shou, W., and Mou, S. 1997. Mortality in Chicago attributed to the July 1995 heat wave. *American Journal of Public Health* 87(9): 1515–1518.
- WHO (World Health Organization). 2005. Ecosystems and human well-being: health synthesis. A report of the Millennium Ecosystem Assessment. World Health Organization, Geneva, 54 pp.
- Wigley, T.M.L. 2003 to 2008. MAGICC/SCENGEN 5.3: User Manual, UCAR - Climate and Global Dynamics Division, Boulder, CO.
- Wilbanks, T.J. 2007. Conclusions and Research Priorities in Effects of Climate Change on Energy Production and Use in the United States: A Report by the U.S. Climate Change Science Program and the subcommittee on Global Change Research, Washington, DC. [SAP 4-5].
- Wilbanks, T.J., Lankao, P.R., Bao, M., Berkhout, F., Cairncross, S., Ceron, J.-P., Kapshe, M., Muir-Wood, R., and Zapata-Marti, R. 2007. Industry, settlement and society. In: IPCC, 2007. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson, (Eds.), Cambridge University Press, Cambridge, UK, pp. 357–390.
- Wilbanks, T.J., P. Leiby, R. Perlack, J.T. Ensminger and S.B. Wright. 2005. Toward an integrated analysis of mitigation and adaptation: some preliminary findings. *Mitigation and Adaptation Strategies for Global Change*.
- Wiley, J.W. and Wunderle, J.M., Jr. 1994. The effects of hurricanes on birds, with special reference to Caribbean islands. *Bird Conserv. Int.* 3: 319–349.

- Wilkinson, P, Pattenden, S., Armstrong, B., Fletcher, A., Kovats, R.S., Mangtani, P., and McMichael, A.J. 2004. Vulnerability to winter mortality in elderly people in Britain: population based study. *British Medical Journal* 329(7467): 647.
- Williams, P.R.D., Cushing, C.A., and Sheehan, P.J. 2003. Data available for evaluating the risks and benefits of MBTE and ethanol as alternative fuel oxygenates. *Risk Analysis* 23(5): 1085–1115.
- Wilson, R.J., Thomas, C.D., Fox, R., Roy, D.B., and Kunin, W.E. 2004. Spatial patterns in species distributions reveal biodiversity change. *Nature*. 432: 393–396.
- Winebrake, J., D. He, and, M. Wang. 2000. Fuel-Cycle Emissions for Conventional and Alternative Fuel Vehicles: An Assessment of Air Toxics. Center for Transportation Research, Argonne, national Laboratories, ABL/ESD-55 Table 5.1, pp. 48-49.
- Winkler, J.A., J.A. Andresen, G. Guentchev, and R.D. Kriegel. 2002. Possible impacts of projected temperature change on commercial fruit production in the Great Lakes Region. *J. Great Lakes Res.* 28: 608–625.
- Wisdom, M.J., Rowland, M.M., and Suring, L.H. (Editors). 2005. Habitat Threats in the Sagebrush Ecosystem: Methods of Regional Assessment and Applications in the Great Basin. Allen Press/Alliance Communication Group Publishing, Lawrence, Kansas, USA.
- Wittmann, R., and Flick, G. 1995. Microbial contamination of shellfish: prevalence, risk to human health and control strategies. *Annual Review of Public Health* 16: 123–140.
- WMO (World Meteorological Organization). 2006a. Statement on Tropical Cyclones and Climate Change. Sixth International Workshop on Tropical Cyclones, San Jose, Costa Rica, November 2006. [http://www.wmo.ch/pages/prog/arep/tmrp/documents/iwtc\\_statement.pdf](http://www.wmo.ch/pages/prog/arep/tmrp/documents/iwtc_statement.pdf).
- WMO (World Meteorological Organization). 2006b. Scientific Assessment of Ozone Depletion. 2006. Global Ozone Research and Monitoring Project Report No. 50, World Meteorological Organization, Geneva, 572 pp.
- Wolfe, D.W., Schwartz, M.D., Lakso, A.N., Otsuki, Y., Pool, R.M., and Shaulis, N. 2005. Climate change and shifts in spring phenology of three horticultural woody perennials in northeastern USA. *International Journal of Biometeorology* 49(5): 303–309.
- Woodward, F.I., and Lomas, M.R. 2004. Vegetation dynamics: simulating responses to climatic change. *Biol. Rev.* 79: 643–670.
- Woodwell, G.M. 2004. Mountains: top down. *Ambio Special Report*, 13, 35-38. Wooldridge, S., T. Done, R. Berkelmans, R. Jones and P. Marshall, 2005: Precursors for resilience in coral communities in a warming climate: a belief network approach. *Mar. Ecol.–Prog. Ser.* 295: 157–169.
- World Bank. 2006. World Development Indicators. The International Bank for Reconstruction and Development, The World Bank, Washington DC. 242 pp.
- WRI (World Resources Institute). 2008. Climate Analysis Indicators Tool (CAIT) Version 5.0. Washington, DC: World Resources Institute. <http://cait.wri.org>.

- Wrona, F.J., Prowse, T.D., and Reist, J.D. 2005. Freshwater Ecosystems and Fisheries. ACIA. Arctic Climate Impact Assessment, Cambridge University Press, New York, pp. 353–452.  
<http://www.acia.uaf.edu>.
- Wu, H. and Chan, L. 2001. Surface ozone trends in Hong Kong in 1985–1995. *Environment International* 26: 213–222.
- WWF (World Wide Fund for Nature). 2008a. Major Habitat Types.  
[http://www.panda.org/about\\_wwf/where\\_we\\_work/ecoregions/about/habitat\\_types/selecting\\_terrestrial\\_ecoregions/index.cfm](http://www.panda.org/about_wwf/where_we_work/ecoregions/about/habitat_types/selecting_terrestrial_ecoregions/index.cfm).
- WWF (World Wide Fund for Nature). 2008b. Montane Grasslands and Shrubland Ecoregions.  
[http://www.panda.org/about\\_wwf/where\\_we\\_work/ecoregions/about/habitat\\_types/selecting\\_terrestrial\\_ecoregions/habitat10.cfm](http://www.panda.org/about_wwf/where_we_work/ecoregions/about/habitat_types/selecting_terrestrial_ecoregions/habitat10.cfm).
- WWJ News Radio. 2008. Car Makers React to the Reality of Higher Gas Prices.  
<http://www.wwj.com/Car-Makers-React-to-the-Reality-of-Higher-Gas-Price/2323458>.
- Xu, H.Q., and Chen, B.Q. 2004. Remote sensing of the urban heat island and its changes in Xiamen City of SE China. *Journal of Environmental Sciences* 16(2): 276–281.
- Yohe, G.W., R.D. Lasco, Q.K. Ahmad, N.W. Arnell, S.J. Cohen, C. Hope, A.C. Jantos, and R.T. Perez, 2007: Perspectives on Climate Change and Sustainability. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge, UK, pp. 811-841.
- Yom-Tov, Y. and Yom-Tov, S. 2004. Climate change and body size in two species of Japanese rodents. *Biol. J. Linn. Soc.* 82: 263–267.
- Yom-Tov, Y. 2003. Body sizes of carnivores commensal with humans have increased over the past 50 years. *Funct. Ecol.* 17: 323–327.
- Zervas, C. 2001. Sea Level Variations of the United States 1854–1999. NOAA Technical Report NOS CO-OPS 36, 201 pp.
- Zhang, K., Douglas, B.C., and Leatherman, S.P. 2004. Global warming and coastal erosion. *Climatic Change* 64(1-2): 41–58.
- Zhang, X., Zwiers, F., Hergerl, H., Lambert, F., Gillet, N., Solomon, S., Stott, P. and Nozawa, T. 2007. Detection of human influence on twentieth-century precipitation trends. *Nature* 448: 461–465.  
<http://www.nature.com/nature/journal/v448/n7152/abs/nature06025.html>.
- Zhou, L., Tucker, R.K., Slayback, D., Shabanov, N.V., and Myneni, R.B. 2001. Variations in northern vegetation activity inferred from satellite data of vegetation index during 1981 to 1999. *J. Geophys. Res. Atmos.* 106: 10069–20083.
- Zickfield, K. B. Knopf, V. Petoukhov, and H.J. Schellnhuber. 2005. Is the Indian Summer Monsoon Stable Against Global Change? *Geophys. Res. Lett.* 32:L15707.

- Ziska, L.H., Emche, S.D., Johnson, E.L., George, K., Reed, D.R., and Sicher, R.C. 2005. Alterations in the production and concentration of selected alkaloids as a function of rising atmospheric carbon dioxide and air temperature: implications for ethno-pharmacology. *Global Change Biology* 11: 1798–1807.
- Ziska, L.H., Teasdale, J.R., and Bunce, J.A. 1999. Future atmospheric carbon dioxide may increase tolerance to glyphosate. *Weed Science* 47: 608–615.
- Zogorski, J.S., Carter, J.M., Ivahnenko, T., Lapham, W.W., Moran, M.J., Rowe, B.L., Squillace, P.J., and Toccalino, P.L. 2006. The quality of our Nation's waters—Volatile organic compounds in the Nation's ground water and drinking-water supply wells. *U.S. Geological Survey Circular* 1292: 101 pp.
- Zolbrod, A.N., and Peterson, D.L. 1999. Response of high-elevation forests in the Olympic Mountains to climatic change. *Canadian Journal of Forest Research* 29: 1966–1978.