

参考文献

- Abdalati, W. and K. Steffen, 2001: Greenland ice sheet melt extent: 1979–1999. *J. Geophys. Res.*, **106**(D24), 33983–33988.
- Abeku, T.A., G.J. van Oortmarssen, G. Borsboom, S.J. de Vlas and J.D.F. Habbema, 2003: Spatial and temporal variations of malaria epidemic risk in Ethiopia: factors involved and implications. *Acta Trop.*, **87**, 331–340.
- Abou-Hadid, A.F., 2006: *Assessment of Impacts: Adaptation and Vulnerability to Climate Change in North Africa: Food Production and Water Resources*. Washington, DC, 127 pp. http://www.aiaccproject.org/Final%20Reports/Final%20Reports/FinalRept_AIACC_AF90.pdf.
- Abou-Hadid, A.F., R. Mougou, A. Mokssit and A. Iglesias, 2003: *Assessment of Impacts, Adaptation, and Vulnerability to Climate Change in North Africa: Food Production and Water Resources*. AIACC AF90 Semi-Annual Progress Report, 37 pp.
- Abu-Taleb, M.F., 2000: Impacts of global climate change scenarios on water supply and demand in Jordan. *Water International*, **25**(3), 457–463.
- ACIA (Arctic Climate Impact Assessment), 2004: *Impacts of a Warming Arctic: Synthesis Report of the Arctic Climate Impact Assessment*, Policy Document prepared by the Arctic Council and presented at the Fourth Arctic Council Ministerial Meeting, Reykjavik, 24 November 2004, 140 pp.
- ACIA (Arctic Climate Impact Assessment), 2005: *Arctic Climate Impact Assessment*. Cambridge University Press, Cambridge, 1042 pp.
- ADB (Asia Development Bank), 1994: *Climate Change in Asia: Vietnam Country Report*. Asia Development Bank, Manila, 103 pp.
- Adler, R.F. and Co-authors, 2003: The version 2 Global Precipitation Climatology Project (GPCP) monthly precipitation analysis (1979–present). *J. Hydrometeorol.*, **4**, 1147–1167.
- AEMA, 2002: *Uso sostenible del agua en Europa. Gestión de la demanda*. Ministerio de Medio Ambiente, Madrid, 94 pp.
- Agarwal, P.K., S.K. Bandyopadhyay, H. Pathak, N. Kalra, S. Chander and S. Kumar, 2000: Analysis of yield trends of the rice–wheat system in north-western India. *Outlook on Agriculture*, **29**(4), 259–268.
- Agoumi, A., 2003: *Vulnerability of North African Countries to Climatic Changes: Adaptation and Implementation Strategies for Climatic Change*, IISD. http://www.cckn.net/pdf/north_africa.pdf.
- Aguilar, E., T.C. Peterson, P. Ramírez Obando, R. Frutos, J.A. Retana, M. Solera, J. Soley, I. González García and co-authors, 2005: Changes in precipitation and temperature extremes in Central America and northern South America, 1961–2003. *J. Geophys. Res.*, **110**, D23107, doi:10.1029/2005JD006119.
- Alcamo, J. and T. Henrichs, 2002: Critical regions: a model-based estimation of world water resources sensitive to global changes. *Aquat. Sci.*, **64**, 352–362.
- Alcamo, J., P. Döll, T. Henrichs, F. Kaspar, B. Lehner, T. Rösch and S. Siebert, 2003a: Development and testing of the WaterGAP 2 global model of water use and availability. *Hydrol. Sci. J.*, **48**, 317–338.
- Alcamo, J., P. Döll, T. Henrichs, F. Kaspar, B. Lehner, T. Rösch and S. Siebert, 2003b: Global estimates of water withdrawals and availability under current and future “business-as-usual” conditions. *Hydrol. Sci. J.*, **48**, 339–348.
- Alcamo, J. and Co-authors, 2004: A new perspective on the impacts of climate change on Russian agriculture and water resources. *Proc. World Climate Change Conference*, 29 September–3 October, 2003, Moscow, 324–335.
- Alcamo, J., M. Flörke and M. Marker, 2007: Future long-term changes in global water resources driven by socio-economic and climatic change. *Hydrol. Sci. J.*, **52**, 247–275.
- Aldhous, P., 2004: Borneo is burning. *Nature*, **432**, 144–146.
- Alexander, L.V., X. Zhang, T.C. Peterson, J. Caesar, B. Gleason, A.M.G. Klein Tank, M. Haylock, D. Collins, B. Trewin, F. Rahimzadeh, A. Tagipour, K. Rupa Kumar, J. Revadekar, G. Griffiths, L. Vincent, D.B. Stephenson, J. Burn, E. Aguilar, M. Brunet, M. Taylor, M. New, P. Zhai, M. Rusticucci and J.L. Vazquez-Aguirre, 2006: Global observed changes in daily climate extremes of temperature and precipitation. *J. Geophys. Res.*, **111**, D05109, doi:10.1029/2005JD006290.
- Allen Consulting Group, 2005: *Climate Change Risk and Vulnerability: Promoting an Efficient Adaptation Response in Australia*. Report to the Australian Greenhouse Office by the Allen Consulting Group, 159 pp. <http://www.greenhouse.gov.au/impacts/publications/risk-vulnerability.html>.
- Alvarez, R., 2005: A review of nitrogen fertilizer and conservative tillage effects on soil organic storage. *Soil Use Manage.*, **21**, 38–52.
- Álvarez Cobelas, M., J. Catalán and D. García de Jalón, 2005: Impactos sobre los ecosistemas acuáticos continentales. *Evaluación Preliminar de los Impactos en España por Efecto del Cambio Climático*, J.M. Moreno, Ed., Ministerio de Medio Ambiente, Madrid, 113–146.
- Ames, A., 1998: A documentation of glacier tongue variations and lake development in the Cordillera Blanca, Peru. *Z. Glet. Glazialgeol.*, **34**(1), 1–26.
- Andréasson, J., S. Bergström, B. Carlsson, L.P. Graham and G. Lindström, 2004: Hydrological change: climate impact simulations for Sweden. *Ambio*, **33**(4–5), 228–234.
- Andreone, F., J.E. Cadle, N. Cox, F. Glaw, R.A. Nussbaum, C.J. Raxworthy, S.N. Stuart and D. Vallan, 2005: Species review of amphibian extinction risks in Madagascar: conclusions from the Global Amphibian Assessment. *Conserv. Biol.*, **19**, 1790–1802.
- Anisimov, O.A. and M.A. Beloutskaia, 2004: Predictive modelling of climate change impacts on permafrost: effects of vegetation. *Meteorol. Hydrol.*, **11**, 73–81.
- Antle, J.M., S.M. Capalbo, E.T. Elliott and K.H. Paustian, 2004: Adaptation, spatial heterogeneity, and the vulnerability of agricultural systems to climate change and CO₂ fertilization: an integrated assessment approach. *Climatic Change*, **64**, 289–315.
- Aparicio, M., 2000: *Vulnerabilidad y Adaptación a la Salud Humana ante los Efectos del Cambio Climático en Bolivia*. Ministerio de Desarrollo Sostenible y Planificación. Viceministerio de Medio Ambiente, Recursos Naturales y Desarrollo Forestal. Programa Nacional de Cambios Climáticos. PNUD/GEF.

- Arkell, B.P. and Darch, G.J.C., 2006: Impact of climate change on London's transport network. *Proc. Institution of Civil Engineers-Municipal Engineer*, **159**(4), 231–237.
- Arnell, N.W., 2003: Relative effects of multi-decadal climatic variability and changes in the mean and variability of climate due to global warming: future streamflows in Britain. *J. Hydrol.*, **270**, 195–213.
- Arnell, N.W., 2004: Climate change and global water resources: SRES emissions and socio economic scenarios. *Global Environmen. Chang.*, **14**, 31–52.
- Arnell, N.W., 2006a: Global impacts of abrupt climate change: an initial assessment. Working Paper 99, Tyndall Centre for Climate Change Research, University of East Anglia, Norwich, 37 pp.
- Arnell, N.W., 2006b: Climate change and water resources: a global perspective. *Avoiding Dangerous Climate Change*, H.J. Schellhuber, W. Cramer, N. Nakićenović, T. Wigley and G. Yohe, Eds., Cambridge University Press, Cambridge, 167–175.
- Arnell, N.W. and E.K. Delaney, 2006: Adapting to climate change: public water supply in England and Wales, *Climatic Change*, **78**, 227–255.
- Amell, N.W., M.J.L. Livermore, S. Kovats, P.E. Levy, R. Nicholls, M.L. Parry and S.R. Gaffin, 2004: Climate and socio-economic scenarios for global-scale climate change impacts assessments: characterising the SRES storylines. *Global Environ. Chang.*, **14**, 3–20.
- Ashton, P.J., 2002: Avoiding conflicts over Africa's water resources, *Ambio*, **31**(3), 236–242.
- Attaher, S., M.A. Medany, A.A. Abdel Aziz and A. El-Gindy, 2006: Irrigation-water demands under current and future climate conditions in Egypt. *Misr. Journal of Agricultural Engineering*, **23**, 1077–1089.
- Auer, I. and Co-authors, 2007: Histalp - historical instrumental climatological surface time series of the Greater Alpine Region 1760–2003. *Int. J. Climatol.*, **27**, 17–46.
- Bachelet, D., R.P. Neilson, J.M. Lenihan and R.J. Drapek, 2001: Climate change effects on vegetation distribution and carbon budget in the United States. *Ecosystems*, **4**, 164–185.
- Baker, T.R., O.L. Phillips, Y. Malhi, S. Almeida, L. Arroyo, A. Di Fiore, T. Erwin, N. Higuchi, and Co-authors, 2004: Increasing biomass in Amazonian forest plots. *Philos. T. Roy. Soc. Lond. B*, **359**, 353–365.
- Balmford, A., P. Crane, A. Dobson, R.E. Green and G.M. Mace, 2005: The 2010 challenge: data availability, information needs and extraterrestrial insights. *Philos. T. Roy. Soc. Lond. B*, **360**, 221–228.
- Barber, V.A., G.P. Juday and B.P. Finney, 2000: Reduced growth of Alaskan white spruce in the twentieth century from temperature-induced drought stress. *Nature*, **405**, 668–673.
- Barnett, T.P., R. Malone, W. Pennell, D. Stammer, B. Semtner and W. Washington, 2004: The effects of climate change on water resources in the West: introduction and overview. *Climatic Change*, **62**, 1–11.
- Barnett, T.P., J.C. Adam and D.P. Lettenmaier, 2005: Potential impacts of warming climate on water availability in snow-dominated regions. *Nature*, **438**, 303–309.
- Barras, J., S. Beville, D. Britsch, S. Hartley, S. Hawes, J. Johnston, P. Kemp, Q. Kinler, A. Martucci, J. Porthouse, D. Reed, K. Roy, S. Sapkota and J. Suhayda, 2003: *Historical and Projected Coastal Louisiana Land Changes: 1978–2050*. Open File Report 03-334. U.S. Geological Survey. 39 pp.
- Barreira, A., 2004: *Dams in Europe. The Water Framework Directive and the World Commission on Dam Recommendations: A Legal and Policy Analysis*. <http://assets.panda.org/downloads/wfdamsineurope.pdf>
- Basán Nickisch, M., 2002: Sistemas de captación y manejo de agua. Estación Experimental Santiago del Estero. Instituto Nacional de Tecnología Agropecuaria. http://www.inta.gov.ar/santiago/info/documentos/agua/0001res_sistemas.htm.
- Batima, P., 2003: Climate change: pasture–livestock. Synthesis Report. *Potential Impacts of Climate Change, Vulnerability and Adaptation Assessment for Grassland Ecosystem and Livestock Sector in Mongolia*. Admon Publishing, Ulaanbaatar, 36–47.
- Batima, P., Batnasan N. and Lehner B., 2004: *The Freshwater Systems of Western Mongolia's Great Lakes Basin: Opportunities and Challenges in the Face of Climate Change*. Admon Publishing, Ulaanbaatar, 95 pp.
- Batima, P., T. Ganbaatar, D. Tumerbaatar, B. Erdenetsseg, B. Bolortsetseg, B. Gantssetseg, G. Sanjid and S. Khudulmur, 2005: Climate change impacts on environment. *Climate Change Impacts*, P. Batima and B. Bayasgalan, Eds., Admon Publishing, Ulaanbaatar, 59–115.
- Bationo, A., S.P. Wani, C.L. Biielders, P.L.G. Velk and A.U. Mokwunye, 2000: Crop residues and fertilizer management to improve soil organic carbon content, soil quality and productivity in the desert margins of West Africa. *Global Climate Change and Tropical Ecosystems*, R. Lal, J.M. Kimble and B.A. Stewart, Eds., CRC-Lewis Publishers, Boca Raton, FL, 117–146.
- Bauder, E.T., 2005: The effects of an unpredictable precipitation regime on vernal pool hydrology. *Freshw. Biol.*, **50**, 2129–2135.
- Beare, S. and A. Heaney, 2002: *Climate change and water resources in the Murray Darling Basin, Australia; impacts and adaptation*. Conference Paper 02.11, Australian Bureau of Agricultural and Resource Economics, 33 pp. <http://www.abarepublications.com/product.asp?prodid=12389>.
- Beaulieu, N. and M. Allard, 2003: The impact of climate change on an emerging coastline affected by discontinuous permafrost: Manitousun Strait, northern Quebec. *Can. J. Earth Sci.*, **40**, 1393–1404.
- Beck, C., J. Grieser and B. Rudolph, 2005: A New Monthly Precipitation Climatology for the Global Land Areas for the Period 1951 to 2000. DWD, *Klimastatusbericht 2004*, 181–190.
- Beltaos, S. and Co-authors, 2006: Climatic effects on ice-jam flooding of the Peace-Athabasca Delta. *Hydrol. Process.*, **20**(19), 4031–4050.
- Benhin, J.K.A., 2006: *Climate change and South African agriculture: impacts and adaptation options*. CEEPA Discussion Paper No.21. Special Series on Climate Change and Agriculture in Africa. The Centre for Environmental Economics and Policy in Africa, University of Pretoria, Pretoria, 78 pp.
- Beniston, M. and H.F. Díaz, 2004: The 2003 heatwave as an example of summers in a greenhouse climate? Observations and climate model simulations for Basel, Switzerland. *Global Planet. Change*, **44**, 73–81.
- Beniston, M., D.B. Stephenson, O.B. Christensen, C.A.T. Ferro, C. Frei, S. Goyette, K. Halsnaes, T. Holt, K. Jylhä, B. Koffi, J. Palutikof, R. Schöll, T. Semmler and K. Woth, 2007: Future extreme events in European climate: an exploration of regional climate model projections. *Climatic Change*, **81**(Suppl. 1), 71–95.
- Berezovskaya, S., D.Q. Yang and L. Hinzman, 2005: Long-term annual water balance analysis of the Lena River. *Global Planet. Change*, **48**(1–3), 84–95.
- Berger, T., J. Mendoza, B. Francou, F. Rojas, R. Fuertes, M. Flores, L. Noriega, C. Ramallo, E. Ramirez and H. Baldvieso, 2005: Glaciares Zongo – Chacaltaya – Charquini Sur – Bolivia 16°S. Mediciones Glaciológicas, Hidrológicas y Meteorológicas, Año Hidrológico 2004–2005. *Informe Great Ice Bolivia, IRD-IHH-SENMAHI-COBEE*, 171.
- Berndes, G. and P. Börjesson, 2002: Multi-functional biomass production systems. <http://www.brdisolutions.com/pdfs/bcota/abstracts/6/70.pdf>.
- Berndes, G., F. Fredrikson, and P. Borjesson, 2004: Cadmium accumulation and Salix-based phytoextraction on arable land in

- Sweden. *Agriculture, Ecosystems & Environment*, **103**, 207-223.
- Berthelot, M., P. Friedlingstein, P. Ciais, P. Monfray, J.L. Dufresne, H.L. Treut and L. Fairhead, 2002: Global response of the terrestrial biosphere and CO₂ and climate change using a coupled climate-carbon cycle model. *Global Biogeochem. Cy.*, **16**, doi:10.1029/2001GB001827.
- Betts, R.A., P.M. Cox, S.E. Lee and F.I. Woodward, 1997: Contrasting physiological and structural vegetation feedbacks in climate change simulations. *Nature*, **387**, 796-799.
- Betts, R.A., O. Boucher, M. Collins, P.M. Cox, P.D. Falloon, N. Gedney, D.L. Hemming, C. Huntingford, C.D. Jones, D. Sexton and M. Webb, 2007: Projected increase in continental runoff due to plant responses to increasing carbon dioxide. *Nature*, **448**, 1037-1041.
- Beuhler, M., 2003: Potential impacts of global warming on water resources in southern California. *Water Sci. Technol.*, **47**(7-8), 165-168.
- Bhadra, B., 2002: Regional cooperation for sustainable development of Hindu Kush Himalaya region: opportunities and challenges. Keynote paper presented at *The Alpine Experience – An Approach for other Mountain Regions*, Berchtesgaden, Germany, June 26-29.
- Bidegain, M., R.M. Caffera, F. Blixen, V.P. Shennikov, L.L. Lagomarsino, E.A. Forbes and G.J. Nagy, 2005: Tendencias climáticas, hidrológicas y oceanográficas en el Río de la Plata y costa Uruguay. *El Cambio Climático en el Río de la Plata*, V. Barros A. Menéndez and G.J. Nagy, Eds., Proyectos AIACC, 137-143.
- Bigio, A., 2003: Cities and climate change. *Building Safer Cities: The Future of Disaster Risk*, A. Kreimer, M. Arnold and A. Carlin, Eds., World Bank, Washington, DC, 91-100.
- Bindoff, N., J. Willebrand, V. Artale, A. Cazenave, J. Gregory, S. Gulev, K. Hanawa, C.L. Quéré, S. Levitus, Y. Nojiri, C.K. Shum, L. Talley and A. Unnikrishnan, 2007: Observations: oceanic climate change and sea level. *Climate Change 2007: The Physical Science Basis. Working Group I Contribution to the Intergovernmental Panel on Climate Change Fourth Assessment Report*, S. Solomon, D. Qin, M. Manning, Z. Chen, M. Marquis, K. B. Averyt, M. Tignor and H. L. Miller, Eds., Cambridge University Press, Cambridge, 385-432.
- Blais, J.M., D.W. Schindler, D.C.G. Muir, M. Sharp, D. Donald, M. Lafreniere, E. Braekevelt and W. M.J. Strachan, 2001: Melting glaciers: a major source of persistent organochlorines to subalpine Bow Lake in Banff National Park, Canada. *Ambio*, **30**, 410-415.
- Blythe, E.M., A.J. Dolman and J. Noilhan, 1994: The effect of forest on mesoscale rainfall: an example from HAPEX-MOBILHY. *J. Appl. Meteorol.*, **33**, 445-454.
- 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.
- Bodaly, R.A., J.W.M. Rudd, R.J.P. Fudge and C.A. Kelly, 1993: Mercury concentrations in fish related to size of remote Canadian shield lakes. *Can. J. Fish. Aquat. Sci.*, **50**, 980-987.
- Bogaart, P.W. and R.T. van Balen, 2000: Numerical modeling of the response of alluvial rivers to Quaternary climatic change. *Global Planet. Change*, **27**, 124-141.
- Bogoyavlenskiy, D. and A. Siggner, 2004: Arctic demography. *Arctic Human Development Report (AHDR)*, N. Einarsson, J.N. Larsen, A. Nilsson and O.R. Young, Eds., Steffansson Arctic Institute, Akureyri, 27-41.
- Börjesson, P. and G. Berndes, 2006: The prospects for willow plantations for wastewater treatment in Sweden. *Biomass and Bioenergy*, **30**, 428-438.
- Bouma, M.J., 2003: Methodological problems and amendments to demonstrate effects of temperature on the epidemiology of malaria: a new perspective on the highland epidemics in Madagascar, 1972-1989. *Trans. Roy. Soc. Trop. Med. Hyg.*, **97**, 133-139.
- Bouraoui, F., B. Grizzetti, K. Granlund, S. Rekolainen and G. Bidoglio, 2004: Impact of climate change on the water cycle and nutrient losses in a Finnish catchment. *Climatic Change*, **66**, 109-126.
- Boutkan, E. and A. Stikker, 2004: Enhanced water resource base for sustainable integrated water resource management. *Nat. Resour. Forum*, **28**, 150-154.
- Bou-Zeid, E. and El-Fadel, M., 2002: Climate change and water resources in Lebanon and the Middle East. *J. Water Res. Pl.-ASCE*, **128**(5), 343-355.
- Box, J.E. and Co-authors, 2006: Greenland ice-sheet surface mass balance variability (1988-2004) from calibrated polar MM5 output. *J. Clim.*, **19**(12), 2783-2800.
- Bradley, R.S., F.T. Keimig and H.F. Diaz, 2004: Projected temperature changes along the American cordillera and the planned GCOS network. *Geophys. Res. Lett.*, **31**, L16210, doi:10.1029/2004GL020229.
- Bradley, R.S., M. Vuille, H. Diaz and W. Vergara, 2006: Threats to water supplies in the tropical Andes. *Science*, **312**, 1755-1756.
- Braun, O., M. Lohmann, O. Maksimovic, M. Meyer, A. Merkovic, E. Messerschmidt, A. Reidel and M. Turner, 1999: Potential impact of climate change effects on preferences for tourism destinations: a psychological pilot study. *Clim. Res.*, **11**, 2477-2504.
- Briers, R.A., J.H.R. Gee and R. Geoghegan, 2004: Effects of North Atlantic oscillation on growth and phenology of stream insects. *Ecography*, **27**, 811-817.
- Brkklacich, M., C. Bryant, B. Veenhof and A. Beauchesne, 1997: Implications of global climatic change for Canadian agriculture: a review and appraisal of research from 1984-1997. *Canada Country Study: Climate Impacts and Adaptation*, Environment Canada, Toronto, ON, 220-256.
- Bromley, C.J. and S. Currie, 2003: Analysis of subsidence at Crown Road, Taupo: a consequence of declining groundwater. *Proc. 25th New Zealand Geothermal Workshop*, Auckland University, 113-120.
- Brouyere, S., G. Carabin and A. Dassargues, 2004: Climate change impacts on groundwater resources: modelled deficits in a chalky aquifer, Geer basin, Belgium. *Hydrogeol. J.*, **12**(2), 123-134.
- Brown, R.A., N.J. Rosenberg, C.J. Hays, W.E. Easterling and L.O. Mearns, 2000: Potential production and environmental effects of switchgrass and traditional crops under current and greenhouse-altered climate in the central United States: a simulation study. *Agric. Ecosyst. Environ.*, **78**, 31-47.
- Brown, R.D. and R.O. Braaten, 1998: Spatial and temporal variability of Canadian monthly snow depths. *Atmos.-Ocean*, **36**, 37-54.
- Bruinsma, J., 2003: *World Agriculture: Towards 2015/2030. An FAO Perspective*. Earthscan, London, 444 pp.
- Brutsaert, W. and M.B. Parlange, 1998: Hydrologic cycle explains the evaporation paradox. *Nature*, **396**, 30.
- Bunn, S.E. and Arthington, A.H., 2002: Basic principles and ecological consequences of altered flow regimes for aquatic biodiversity. *Environ. Manage.*, **30**, 492-507.
- Burger, R.L., 1992: *Chavin and the Origins of Andean Civilization*. Thames and Hudson, London, 240 pp.
- Burke, E.J., S.J. Brown, and N. Christidis, 2006: Modelling the recent evolution of global drought and projections for the 21 st century with the Hadley Centre climate model. *J. Hydrometeorol.*, **7**, 1113-1125.
- Burke, L. and J. Maidens, 2004: *Reefs at Risk in the Caribbean*. World Resources Institute, Washington, DC, 81 pp. http://archive.wri.org/publication_detail.cfm?pubid=3944.
- Burke, L., E. Selig and M. Spalding, 2002: *Reefs at Risk in Southeast Asia*. World Resources Institute, Washington DC, 37 pp. http://www.wri.org/biodiv/pubs_description.cfm?PubID=3144.
- Burkett, V.R. and J. Kusler, 2000: Climate change: potential impacts and interactions in wetlands of the United States. *J. Am. Water Resour. Assoc.*, **36**, 313-320.

- Burkett, V.R., D.A. Wilcox, R. Stottlemeyer, W. Barrow, D. Fagre, J. Baron, J. Price, J. Nielsen, C.D. Allen, D.L. Peterson, G. Ruggerone and T. Doyle, 2005: Nonlinear dynamics in ecosystem response to climate change: case studies and policy implications. *Ecological Complexity*, **2**, 357–394.
- Buttle, J., J.T. Muir and J. Frain, 2004: Economic impacts of climate change on the Canadian Great Lakes hydro-electric power producers: a supply analysis. *Can. Water Resour. J.*, **29**, 89–109.
- Calder, I.R., 1990: *Evaporation in the Uplands*. John Wiley and Sons, Chichester, 148 pp.
- Calder, I.R., 1992: Water use of eucalyptus – a review. *Growth and Water Use of Forest Plantations*, I.R. Calder, R.L. Hall and P.G. Adlard, Eds., John Wiley and Sons, Chichester, 167–179.
- Caldwell, C.R., S.J. Britz and R.M. Mirecki, 2005: Effect of temperature, elevated carbon dioxide, and drought during seed development on the isoflavone content of dwarf soybean [*Glycine max* (L.) Merrill] grown in controlled environments. *J. Agr. Food Chem.*, **53**(4), 1125–1129.
- California Regional Assessment Group, 2002: *The Potential Consequences of Climate Variability and Change for California: The California Regional Assessment*. National Center for Ecological Analysis and Synthesis, University of California Santa Barbara, Santa Barbara, California, 432 pp. http://www.ncgia.ucsb.edu/pubs/CA_Report.pdf.
- Callaghan, T.V., L.O. Björn, F.S. Chapin III, Y. Chernov, T.R. Christensen, B. Huntley, R. Ims, M. Johansson, D.J. Riedlinger, S. Jonasson, N. Matveyeva, W. Oechel, N. Panikov and G. Shaver, 2005: Arctic tundra and polar desert ecosystems. *Arctic Climate Impact Assessment (ACIA): Scientific Report*, C. Symon, L. Arris and B. Heal, Eds., Cambridge University Press, Cambridge, 243–352.
- Camilloni, I., 2005: Tendencias climáticas. *El Cambio Climático en el Río de la Plata*, V. Barros, A. Menéndez and G.J. Nagy, Eds., CIMA/CONICET-UBA, Buenos Aires, 13–19.
- Canziani, O.F. and L.J. Mata, 2004: The fate of indigenous communities under climate change. UNFCCC Workshop on impacts of, and vulnerability and adaptation to, climate change. *Tenth Session of the Conference of Parties (COP-10)*, Buenos Aires, 3 pp.
- Caran, S.C. and J.A. Nelly, 2006: Hydraulic engineering in prehistoric Mexico. *Sci. Am. Mag.*, **October**, 8 pp.
- Carey, M., 2005: Living and dying with glaciers: people's historical vulnerability to avalanches and outburst floods in Peru. *Global Planet. Change*, **47**, 122–134.
- Cassman, K.G., A. Dobermann, D.T. Walters and H. Yang, 2003: Meeting cereal demand while protecting natural resources and improving environmental quality. *Annu. Rev. Environ. Resour.*, **28**, 315–358.
- CCME, 2003: *Climate, Nature, People: Indicators of Canada's Changing Climate*. Climate Change Indicators Task Group of the Canadian Council of Ministers of the Environment, Canadian Council of Ministers of the Environment Inc., Winnipeg, Canada, 51 pp.
- CDC (Centers for Disease Control), 2005: Vibrio illnesses after Hurricane Katrina: multiple states, August–September 2005. *MMWR–Morb. Mortal. Wkly. Rep.*, **54**, 928–931.
- Census Bureau, 2004: (U. S. Census Bureau), *NP-T1. Annual Projections of the Total Resident Population as of July 1: Middle, Lowest, Highest, and Zero International Migration Series, 1999 to 2100*. Population Division, U.S. Census Bureau, Washington, D.C. 20233, Washington DC. <http://www.census.gov/population/projections/nation/summary/np-t1.txt>.
- Cerri, C.C., M. Bernoux, C.E.P. Cerri and C. Feller, 2004: Carbon cycling and sequestration opportunities in South America: the case of Brazil. *Soil Use Manage.*, **20**, 248–254.
- Chan, N.W., 1986: Drought trends in northwestern peninsular Malaysia: is less rain falling? *Wallaceana*, **4**, 8–9.
- Chang, H., C.G. Knight, M.P. Staneva and D. Kostov, 2002: Water resource impacts of climate change in southwestern Bulgaria. *GeoJournal*, **57**, 159–168.
- Changnon, S.A., 2005: Economic impacts of climate conditions in the United States: past, present, and future – an editorial essay. *Climatic Change*, **68**, 1–9.
- Changnon, S.A. and D. Changnon, 2000: Long-term fluctuations in hail incidences in the United States. *J. Climate*, **13**, 658–664.
- Chappell, A. and C.T. Agnew 2004: Modelling climate change in West African Sahel rainfall (1931–90) as an artifact of changing station locations. *Int. J. Clim.*, **24**(5), 547–554.
- Chattopadhyay, N. and M. Hulme, 1997: Evaporation and potential evapotranspiration in India under conditions of recent and future climate change. *Agric. For. Meteorol.*, **87**, 55–73.
- Chauhan, M. and B. Gopal, 2001: Biodiversity and management of Keoladeo National Park (India): a wetland of international importance. *Biodiversity in Wetlands: Assessment, Function and Conservation*. Volume 2. Backhuys Publishers, Leiden, 217–256.
- Checkley, W., L.D. Epstein, R.H. Gilman, D. Figueroa, R.I. Cama, J.A. Patz and R.E. Black, 2000: Effects of El Niño and ambient temperature on hospital admissions for diarrhoeal diseases in Peruvian children. *Lancet*, **355**, 442–450.
- Cheikh, N., P.W. Miller and G. Kishore, 2000: Role of biotechnology in crop productivity in a changing environment. *Global Change and Crop Productivity*, K.R. Reddy and H.F. Hodges, Eds., CAP International, New York, 425–436.
- Chen, C., D. Gillig and B.A. McCarl, 2001: Effects of climatic change on a water dependent regional economy: a study of the Texas Edwards Aquifer. *Climatic Change*, **49**, 397–409.
- Chen, M., P. Xie, and J.E. Janowiak, 2002: Global land precipitation: a 50-yr monthly analysis based on gauge observations. *J. Hydrometeorol.*, **3**, 249–266.
- Chen, Z., S. Grasby and K. Osadetz, 2004: Relation between climate variability and groundwater levels in the upper carbonate aquifer, southern Manitoba, Canada. *J. Hydrol.*, **290**(1–2), 43–62.
- Chiew, F.H.S., T.I. Harrold, L. Siriwardenena, R.N. Jones and R. Srikanthan, 2003: Simulation of climate change impact on runoff using rainfall scenarios that consider daily patterns of change from GCMs. *MODSIM 2003: Proc. International Congress on Modelling and Simulation*, D.A. Post, Ed., Modelling and Simulation Society of Australia and New Zealand, Canberra ACT, Townsville, 154–159.
- Choi, O. and A. Fisher, 2003: The impacts of socioeconomic development and climate change on severe weather catastrophe losses: Mid-Atlantic Region MAR and the U.S. *Climatic Change*, **58**(1–2), 149–170.
- Chomitz, K.M. and K. Kumari, 1996: *The domestic benefits of tropical forests: a critical review emphasizing hydrological functions*. Policy Research Working Paper, World-Bank, No. WPS1601, 41 pp.
- Christensen, J.H. and O.B. Christensen, 2003: Severe summertime flooding in Europe. *Nature*, **421**, 805.
- Christensen, J.H., B. Hewitson, A. Busuioc, A. Chen, X. Gao, I. Held, R. Jones, R.K. Koli, W.-T. Kwon, R. Laprise, V.M. Rueda, L. Mearns, C.G. Menéndez, J. Räisänen, A. Rinke, A. Sarr and P. Whetton, 2007: Regional climate projections. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, S. Solomon, D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller, Eds., Cambridge University Press, Cambridge, 847–940.
- Christensen, N.S., A.W. Wood, N. Voisin, D.P. Lettenmaier and R.N. Palmer, 2004: The effects of climate change on the hydrology and water resources of the Colorado River basin. *Climatic Change*, **62**(1–3), 337–363.

- Ciais, P., M. Reichstein, N. Viovy, A. Granier, J. Ogee, V. Allard, M. Aubinet, N. Buchmann, et al., 2005: Europe-wide reduction in primary productivity caused by the heat and drought in 2003. *Nature*, **437**, 529–533.
- City of New York, 2005: New York City's Water Supply System. The City of New York Department of Environmental Protection, New York, New York. <http://www.ci.nyc.ny.us/html/dep/html/watersup.html>.
- Clark, M.E., K.A. Rose, D.A. Levine and W.W. Hargrove, 2001: Predicting climate change effects on Appalachian trout: combining GIS and individual-based modeling. *Ecol. Appl.*, **11**, 161–178.
- Clarke, R. and J. King, 2004: *The Atlas of Water*. Earthscan, London, 128 pp.
- Cohen, S., D. Neilsen and R. Welbourn, Eds., 2004: *Expanding the dialogue on climate change and water management in the Okanagan Basin, British Columbia*. Final Report 1 January 2002 to 30 June 2004. <http://www.ires.ubc.ca/aird/documents/Okanagan2004-final.pdf>.
- Cohen, S.J., R. de Loë, A. Hamlet, R. Herrington, L.D. Mortsch and D. Shrubsole, 2003: *Integrated and cumulative threats to water availability. Threats to Water Availability in Canada*. National Water Research Institute, Burlington, Ontario, 117–127. http://www.nwri.ca/threats2full/ThreatsEN_03web.pdf.
- COHIFE, 2003: Principios rectores de Política Hídrica de la República Argentina. *Acuerdo Federal del Agua, Consejo Hidrico Federal*, COHIFE 8, August 2003, Argentina.
- Cole, C.V., K. Flach, J. Lee, D. Sauerbeck and B. Stewart, 1993: Agricultural sources and sinks of carbon. *Water Air Soil Poll.*, **70**, 111–122.
- Coleman, J.M. and O.K. Huh, 2004: *Major World Deltas: A Perspective from Space*. Coastal Studies Institute, Louisiana State University, Baton Rouge, Louisiana. <http://www.geol.lsu.edu/WDD/PUBLICATIONS/introduction.htm>
- Compton, K., T. Ermolieva, and J.C. Linnerooth-Bayer, 2002: Integrated Disaster Risk Management: Megacity Vulnerability and Resilience, *Proc. Second Annual IIASA-DPRI Meeting*, IIASA Laxenburg, 20 pp.
- Conde, C., D. Liverman, M. Flores, R. Ferrer, R. Araujo, E. Betancourt, G. Villareal and C. Gay, 1997: Vulnerability of rainfed maize crops in Mexico to climate change. *Clim. Res.*, **9**, 17–23.
- Conway, D., 2005: From headwater tributaries to international river: observing and adapting to climate variability and change in the Nile basin. *Global Environ. Chang.*, **15**, 99–114.
- Cook, E.R., R.D. D'Arrigo and M.E. Mann, 2002: A well-verified, multiproxy reconstruction of the winter North Atlantic Oscillation index since A.D. 1400. *J. Clim.*, **15**, 1754–1764.
- Cortazar, P.F., 1968: Documental del Perú, Departamento del Cusco, S.A. Ioppe. Ed., February 1968.
- Cosgrove, W., R. Connor and J. Kuylenstierna, 2004: Workshop 3 (synthesis): climate variability, water systems and management options. *Water Sci. Techn.*, **7**, 129–132.
- Coudrain, A., B. Francou and Z.W. Kundzewicz, 2005: Glacier shrinkage in the Andes and consequences for water resources: Editorial. *Hydrol. Sci. J.*, **50**(6), 925–932.
- Crabbe, P. and M. Robin, 2006: Institutional adaptation of water resource infrastructures to climate change in Eastern Ontario. *Climatic Change*, **78**(1), 103–133.
- Craig, M.H., I. Kleinschmidt, D. Le Sueur and B.L. Sharp, 2004: Exploring thirty years of malaria case data in KwaZulu-Natal, South Africa. Part II. The impact of non-climatic factors. *Trop. Med. Int. Health*, **9**, 1258–1266.
- Cross, J., 2001: Megacities and small towns: different perspectives on hazard vulnerability. *Environmental Hazards*, **3**, 63–80.
- CTIC, 1998: *17th Annual Crop Residue Management Survey Report*. Conservation Technology Information Center, West Lafayette, IN. <http://www.ctic.purdue.edu>.
- Cullen, P., 2002: Living with water: sustainability in a dry land. *Adelaide Festival of Arts, Getting it Right Symposium, 1–12 March, 2002*.
- Curriero, F., J.A. Patz, J.B. Rose and S. Lele, 2001: The association between extreme precipitation and waterborne disease outbreaks in the United States, 1948–1994. *Am. J. Public Health*, **91**, 1194–1199.
- Cury, P. and L. Shannon, 2004: Regime shifts in upwelling ecosystems: observed changes and possible mechanisms in the northern and southern Benguela. *Prog. Oceanogr.*, **60**, 223–243.
- CWC (Central Water Commission), 2001: *Water and related statistics*, Report of the Ministry of Water Resources, New Delhi.
- DAFF, 2006a: *National Water Initiative*. Department of Agriculture, Forestry and Fisheries, Australia. http://www.pmc.gov.au/water_reform/nwi.cfm.
- DAFF, 2006b: *Contours*. Department of Agriculture, Fisheries and Forestry, Australia, 24 pp. http://www.daff.gov.au/_data/assets/pdf_file/0020/98201/contours-dec-06.pdf.
- Dai, A. and K.E. Trenberth, 2002: Estimates of freshwater discharge from continents: Latitudinal and seasonal variations. *J. Hydrometeorol.*, **3**, 660–687.
- Dai, A., P.J. Lamb, K.E. Trenberth, M. Hulme, P.D. Jones and P. Xie, 2004a: The recent Sahel drought is real. *Int. J. Climatol.*, **24**, 1323–1331.
- Dai, A., K.E. Trenberth and T. Qian, 2004b: A global data set of Palmer Drought Severity Index for 1870–2002: relationship with soil moisture and effects of surface warming. *J. Hydrometeorol.*, **5**, 1117–1130.
- Dalal, R.C., W. Wang, G.P. Robertson and W.J. Parton, 2003: Nitrous oxide emission from Australian agricultural lands and mitigation options: a review. *Australian J. Soil Res.*, **41**, 165–195.
- Dang, H.H., A. Michaelowa and D.D. Tuan, 2003: Synergy of adaptation and mitigation strategies in the context of sustainable development: the case of Vietnam. *Clim. Policy*, **3**, S81–S96.
- DaSilva, J., B. Garanganga, V. Teveredzi, S. Marx, S. Mason and S. Connor, 2004: Improving epidemic malaria planning, preparedness and response in Southern Africa. *Malaria J.*, **3**, 37.
- Davis, J.R., Ed., 1997: *Managing Algal Blooms. Outcomes from CSIRO's Multi-Divisional Blue-Green Algae Program*. CSIRO Land and Water, Canberra, 113 pp.
- de Wit, M. and J. Stankiewicz, 2006: Changes in surface water supply across Africa with predicted climate change. *Science Express*, doi:10.1126/science.1119929. <http://www.scienceexpress.org>.
- Declerck, S., J. Vandekerckhove, L.S. Johansson, K. Muylaert, J.M. Conde-Porcuna, K. van der Gucht, C. Pérez-Martínez, T.L. Lauridsen, K. Schwenk, G. Zwart, W. Rommens, J. López-Ramos, E. Jeppesen, W. Vyverman, L. Brendonck and L. de Meester, 2005: Multi-group biodiversity in shallow lakes along gradients of phosphorus and water plant cover. *Ecology*, **86**, 1905–1915.
- Delworth, T.L. and M.E. Mann, 2000: Observed and simulated multidecadal variability in the Northern Hemisphere. *Clim. Dyn.*, **16**, 661–676.
- Dessai, S., X. Lu and J.S. Risbey, 2005: On the role of climate scenarios for adaptation planning. *Global Environ. Chang.*, **15**, 87–97.
- DEUS, 2006: *NSW Government Water Savings Fund*. Department of Energy, Utilities and Sustainability, 17 pp. <http://www.deus.nsw.gov.au/Publications/WaterSavingsFundR3Guide.pdf>.
- Dias de Oliveira, M.E., B.E. Vaughan, and E.J. Rykiel, Jr., 2005: Ethanol as fuel: energy, carbon dioxide balances, and ecological footprint. *BioScience*, **55**, 593–602.
- Diaz-Nieto, J. and R. Wilby, 2005: A comparison of statistical downscaling and climate change factor methods: impact on low flows in the river Thames, United Kingdom. *Climatic Change*, **69**, 245–268.
- Dinesh Kumar, P.K., 2006: Potential vulnerability implications of sea level rise for the coastal zones of Cochin, southwest coast of India. *Environ. Monit. Assess.*, **123**, 333–344.

- DNPC, 2005/2006: Informe de las lluvias caídas en Venezuela en los meses de Febrero y marzo de 2005 y Febrero 2006. Dirección Nacional de Protección Civil, República Bolivariana de Venezuela.
- Döll, P., 2002: Impact of climate change and variability on irrigation requirements: a global perspective. *Climatic Change*, **54**, 269–293.
- Döll, P. and M. Flörke, 2005: Global-scale estimation of diffuse groundwater recharge. *Frankfurt Hydrology Paper 03*, Institute of Physical Geography, Frankfurt University, Frankfurt.
- Döll, P., M. Flörke, M. Mörker and S. Vassolo, 2003: Einfluss des Klimawandels auf Wasserressourcen und Bewässerungswasserbedarf: eine globale Analyse unter Berücksichtigung neuer Klimaszenarien (Impact of climate change on water resources and irrigation water requirements: a global analysis using new climate change scenarios). *Klima-Wasser-Flussgebietsmanagement – im Lichte der Flut*, H.-B. Kleeberg, Ed., *Proc. Tag der Hydrologie 2003 in Freiburg, Germany, Forum für Hydrologie und Wasserbewirtschaftung*, 11–14.
- Donevska, K. and S. Dodeva, 2004: Adaptation measures for water resources management in case of drought periods. *Proc. XXIInd Conference of the Danubian Countries on the Hydrological Forecasting and Hydrological Bases of Water Management*. Brno, 30 August–2 September 2004, CD-edition.
- Doran, P.T. and Co-authors, 2002: Antarctic climate cooling and terrestrial ecosystem response. *Nature*, **415**, 517–520.
- Dore, M. and I. Burton, 2001: *The Costs of Adaptation to Climate Change in Canada: A Stratified Estimate by Sectors and Regions – Social Infrastructure*. Climate Change Laboratory, Brock University, St Catharines, ON, 117 pp.
- Douglas, E.M., R.M. Vogel and C.N. Kroll, 2000: Trends in floods and low flows in the United States: impact of spatial correlation. *J. Hydrol.*, **240**(1–2), 90–105.
- Dourojeanni, A., 2000: *Procedimientos de Gestión para el Desarrollo Sustentable*. ECLAC, Santiago, 376 pp.
- Douville, H., F. Chauvin, S. Planton, J.F. Royer, D. Salas-Melia and S. Tyteca, 2002: Sensitivity of the hydrological cycle to increasing amounts of greenhouse gases and aerosols. *Clim. Dyn.*, **20**, 45–68.
- Downing, T.E., R.E. Butterfield, B. Edmonds, J.W. Knox, S. Moss, B.S. Piper, E.K. Weatherhead and the CCDeW Project Team, 2003: *Climate change and the demand for water, Research Report*. Stockholm Environment Institute, Oxford Office, Oxford.
- DPMC, 2004: *Water Reform*. Department of Prime Minister and Cabinet, Australia. <http://www.dPMC.gov.au/nwi/index.cfm>.
- Drennen, P.M., M. Smith, D. Goldsworthy and J. van Staten, 1993: The occurrence of trahaolose in the leaves of the desiccation-tolerant angiosperm *Myronthamnus flabellifolius* Welw. *J. Plant Physiol.*, **142**, 493–496.
- du Plessis, C., D.K. Iurrah and R.J. Scholes, 2003: The built environment and climate change in South Africa. *Build. Res. Inf.*, **31**(3–4), 240–256.
- Duguay, C.R. and Co-authors, 2003: Ice-cover variability on shallow lakes at high latitudes: model simulations and observations. *Hydrol. Process.*, **17**, 3465–3483.
- Duong, L.C., 2000: Lessons from severe tropical storm Linda, Workshop Report: “The Impact of El Niño and La Niña on Southeast Asia”, 21–23 February, Hanoi.
- Dwight, R.H., J.C. Semenza, D.B. Baker and B.H. Olson, 2002: Association of urban runoff with coastal water quality in Orange County, California. *Water Environ. Res.*, **74**, 82–90.
- Dyurgerov, M. and M.F. Meier, 2005: *Glaciers and Changing Earth System: A 2004 Snapshot*. 58, INSTAAR, Boulder, CO.
- Dyurgerov, M.B. and C.L. Carter, 2004: Observational evidence of increases in freshwater inflow to the Arctic Ocean. *Arct. Antarct. Alp. Res.*, **36**(1), 117–122.
- Eakin, H. and M.C. Lemos, 2006: Adaptation and the state: Latin America and the challenge of capacity – building under globalization. *Global Environ. Chang.*, **16**, 7–18.
- Easterling, W.E., 2003: Observed impact of climate change in agriculture and forestry. *IPCC Workshop on the Detection and Attribution of the Effects of Climate Change*, GISS, New York, 54–55.
- Ebi, K.L., D.M. Mills, J.B. Smith and A. Grambsch, 2006: Climate change and human health impacts in the United States: an update on the results of the US National Assessment. *Environ. Health Persp.*, **114**(9), 1318–1324.
- ECF (European Climate Forum) and Potsdam Institute, 2004: *Report on the Beijing Symposium on Article 2*, September, 2004.
- Eckhardt, K. and U. Ulbrich, 2003: Potential impacts of climate change on groundwater recharge and streamflow in a central European low mountain range. *J. Hydrol.*, **284**(1–4), 244–252.
- EEA, 2004: *Impacts of Europe’s changing climate: an indicator-based assessment*. EEA Report No 2/2004, European Environment Agency, Copenhagen, Denmark (or: Luxembourg, Office for Official Publications of the EC), 107 pp.
- EEA, 2005: *Vulnerability and adaptation to climate change in Europe*. EEA Technical Report No. 7/2005, European Environment Agency, Copenhagen, Denmark (or: Luxembourg, Office for Official Publications of the EC).
- Eheart, J.W. and D.W. Tornil, 1999: Low-flow frequency exacerbation by irrigation withdrawals in the agricultural Midwest under various climate change scenarios. *Water Resour. Res.*, **35**, 2237–2246.
- Eid, H.M., S.M. El-Marsafawy and S.A. Ouda, 2006: *Assessing the Impacts of Climate Change on Agriculture in Egypt: a Ricardian Approach*. Centre for Environmental Economics and Policy in Africa (CEEPA) Discussion Paper No. 16, Special Series on Climate Change and Agriculture in Africa, University of Pretoria, Pretoria, 1–33.
- Eisenreich, S.J., Ed., 2005: *Climate Change and the European Water Dimension*. Report to the European Water Directors. European Commission-Joint Research Centre, Ispra, 253 pp.
- Eitzinger, J., M. Stastna, Z. Zalud and M. Dubrovsky, 2003: A simulation study of the effect of soil water balance and water stress in winter wheat production under different climate change scenarios. *Agric. Water Manage.*, **61**, 195–217.
- El-Gindy, A., A.A. Abdel Azziz and E.A. El-Sahaar, 2001: *Design of Irrigation and Drainage Networks*. Faculty of Agriculture lectures, Ain Shams University, 28 pp (in Arabic).
- Ellis, J., 1995: Climate variability and complex ecosystem dynamics; implications for pastoral development. *Living with Uncertainty: New Directions in Pastoral Development in Africa*, I. Scoones, Ed., Intermediate Technology Publications, London, 37–46.
- Elpiner, L.I., 2004: Scenarios of human health changes under global hydroclimatic transformations. *Proc. Climate Change and Public Health in Russia in the XXI Century*. April 5–6, 2004, Publishing Company “Adamant”, Moscow, 195–199 (in Russian).
- Elsasser, H. and R. Burki, 2002: Climate change as a threat to tourism in the Alps. *Clim. Res.*, **20**, 253–257.
- Elsasser, H., R. Bürki and B. Abegg, 2003: *Fifth World Conference on Sport and the Environment*, IOC/UNEP, Turin. http://www.unep.org/sport_env/Documents/torinobuerki.doc.
- Enfield, D.B., A.M. Mestas-Nuñez and P.J. Trimble, 2001: The Atlantic Multidecadal Oscillation and its relation to rainfall and river flows in the continental US. *Geophys. Res. Lett.*, **28**, 2077–2080.
- 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.
- EPIQ (Environmental Policy and Institutional Strengthening Indefinite

- Quantity, Water Policy Reform Activity, Agricultural Policy Reform Programme and Market-Based Incentives Team), 2002: Economic Instruments for Improved Water Resources Management in Egypt, Prepared for the United States Agency for International Development/Egypt, No. PCE-I-00-96-00002-00, 173 pp.
- Ericson, J.P., C.J. Vorosmarty, S.L. Dingman, L.G. Ward and M. Meybeck, 2006: Effective sea-level rise and deltas: causes of change and human dimension implications. *Global Planet. Change*, **50**, 63–82.
- Etchevers, P., C. Golaz, F. Habets and J. Noilhan, 2002: Impact of a climate change on the Rhone river catchment hydrology. *J. Geophys. Res.*, **107**, 4293, doi:10.1029/2001JD000490.
- Evans, E., R. Ashley, J. Hall, E. Penning-Rowsell, A. Saul, P. Sayers, C. Thorne and A. Watkinson, 2004: *Foresight. Future Flooding. Scientific Summary: Volume 1. Future Risks and their Drivers*. Office of Science and Technology, London.
- Falconer, I.R., 1997: Blue-green algae in lakes and rivers: their harmful effects on human health. *Australian Biologist*, **10**(2), 107–110.
- FAO (Food and Agriculture Organization), 2003: *World Agriculture Towards 2015/2030*. http://www.fao.org/documents/show_cdr.asp?url_file=/docrep/004/y3557e/y3557e00.htm.
- FAO (Food and Agriculture Organization), 2004a: *Yearbook of Fishery Statistics 2002*. Capture Production, Vol. 94/1, Food and Agriculture Organization of the United Nations, Rome, 654 pp.
- FAO (Food and Agriculture Organization), 2004b: *Yearbook of Fishery Statistics 2002*, Aquaculture production, Vol. 94/2, Food and Agriculture Organization of the United Nations, Rome, 206 pp.
- FAO (Food and Agriculture Organization), 2004c: *Data Base*, Food and Agriculture Organization of the United Nations, Rome.
- FAO (Food and Agriculture Organization), 2006: Third Session of the Sub-Committee on Aquaculture: Committee on Fisheries (COFI). Food and Agriculture Organization of the United Nations (FAO), New Delhi, India, 4-8 September.
- Faruqi, N.I., A.K. Biswas and M.J. Bino, Eds., 2001: *Water Management in Islam*. United Nations University Press, Tokyo, 149 pp.
- Fay, M., F. Ghesquiere and T. Solo, 2003b: Natural disasters and the urban poor. *IRDB En Breve*, **32**, The World Bank, 4 pp.
- Fay, P.A., J.D. Carlisle, A.K. Knapp, J.M. Blair and S.L. Collins, 2003a: Productivity responses to altered rainfall patterns in a C-4-dominated grassland. *Oecologia*, **137**(2), 245–251.
- Fedorov, A. and P. Konstantinov, 2003: Observations of surface dynamics with thermokarst initiation, Yukechi site, Central Yakutia. *Proc. VII International Permafrost Conference*, Switzerland, 21–25 July, 139–243.
- Feng, S. and Q. Hu, 2004: Changes in agro-meteorological indicators in the contiguous United States: 1951-2000. *Theor. Appl. Climatol.*, **78**, 247-264.
- Ferguson, G. and S.S. George, 2003: Historical and estimated ground water levels near Winnipeg, Canada and their sensitivity to climatic variability. *J. Am. Water Resour. As.*, **39**, 1249-1259.
- Fink, A.H., T. Brücher, A. Krüger, G.C. Leckebusch, J.G. Pinto, and U. Ulbrich, 2004: The 2003 European summer heatwaves and drought: synoptic diagnosis and impacts. *Weather*, **59**, 209–216.
- Fischer, G., M. Shah and H.V. Velthuizen, 2002a: *Climate Change and Agricultural Vulnerability*. International Institute for Applied Systems Analysis, Laxenburg, 152 pp.
- Fischer, G., H. van Velthuizen, M. Shah and F.O. Nachtergaele, 2002b: *Global Agro-ecological Assessment for Agriculture in the 21st Century: Methodology and Results*. Research Report RR-02-02. International Institute for Applied Systems Analysis, Laxenburg, 119 pp and CD-Rom.
- Fischer, G., F.N. Tubiello, H. van Velthuizen and D. Wiberg, 2006: Climate change impacts on irrigation water requirements: global and regional effects of mitigation, 1990–2080. *Tech. Forecasting Soc. Ch.*, **74**, doi:10.1016/j.techfore.2006.05.021.
- Fish, M.R., I.M. Cote, J.A. Gill, A.P. Jones, S. Renshoff and A. Watkinson, 2005: Predicting the impact of sea level rise on Caribbean sea turtle nesting habitat. *Conserv. Biol.*, **19**(2), 482–491.
- Fleury, M.D., D. Charron, J. Holt, B. Allen and A. Maarouf, 2006: The role of ambient temperature in foodborne disease in Canada using time series methods *Int. J. Biometeorol.*, **50**, doi:10.1007/s00484-00006-00028-00489.
- Folland, C. K., J.A. Renwick, M.J. Salinger, N. Jiang and N.A. Rayner, 2003: Trends and variations in South Pacific islands and ocean surface temperatures. *J. Climate*, **16**, 2859–2874.
- Follett, R.F., 2001: Organic carbon pools in grazing land soils. *The Potential of U.S. Grazing Lands to Sequester Carbon and Mitigate the Greenhouse Effect*. R.F. Follett, J.M. Kimble and R. Lal, Eds., Lewis Publishers, Boca Raton, FL, 65-86.
- Fosaa, A.M., M.T. Sykes, J.E. Lawesson and M. Gaard, 2004: Potential effects of climate change on plant species in the Faroe Islands, *Global Ecol. Biogeogr.*, **13**, 427–437.
- Francou, B. and C. Vincent, 2006: Les glaciers à l'épreuve du climat. IRD/BELIN, Paris, 274 pp.
- Francou, B., M. Vuille, P. Wagnon, J. Mendoza and J.-E. Sicart, 2003: Tropical climate change recorded by a glacier in the central Andes during the last decades of the twentieth century: Chacaltaya, Bolivia, 16°S. *J. Geophys. Res.*, **108**, doi:10.1029/2002JD002959.
- Frauenfeld, O.W., T. Zhang, R.G. Barry and D. Gilichinsky, 2004: Interdecadal changes in seasonal freeze and thaw depths in Russia. *J. Geophys. Res.*, **109**, doi:10.1029/2003JD004245.
- Freibauer, A., M. Rounsevell, P. Smith and A. Verhagen, 2004: Carbon sequestration in the agricultural soils of Europe. *Geoderma*, **122**, 1-23.
- Frich, P., L.V. Alexander, P. Della-Marta, B. Gleason, M. Haylock, A.M.G.K. Tank and T. Peterson, 2002: Observed coherent changes in climatic extremes during the second half of the twentieth century. *Clim. Res.*, **19**, 193–212.
- Frolov, I., G. Alekseev and A. Danilov, 2004: Climate change in polar areas. *Proc. World Climate Change Conference*, Moscow, 29 September–3 October 2003, 484–490.
- Fukushima, Y., 1987: Influence of forestation on mountainside at granite highlands. *Water Sci.*, **177**, 17-34.
- Gagnon, A.S., K.E. Smoyer-Tomic and A. Bush, 2002: The El Niño Southern Oscillation and malaria epidemics in South America. *Int. J. Biometeorol.*, **46**, 81-89.
- Gallagher, P. and L. Wood, 2003: *Proc. World Summit on Salmon*, June 10-13, 2003, Vancouver, British Columbia. <http://www.sfu.ca/cstudies/science/summit.htm>.
- Gardner, T.A., I. Cote, G. Gill, A. Grant and A. Watkinson, 2003: Long-term region-wide declines in Caribbean corals. *Science*, **301**, 958–960.
- Gash, J.H.C. and W.J. Shuttleworth, 1991: Tropical deforestation: albedo and the surface energy balance. *Climatic Change*, **19**, 123-133.
- Gavriliev, P.P. and P.V. Efremov, 2003: Effects of cryogenic processes on Yakutian landscapes under climate warming. *Proc. VII International Permafrost Conference*, Switzerland, 21–25 July, 277–282.
- GDE (General Directorate of Environment, Comoros), 2002: *Initial National Communication on Climate Change*, Union des Comoros, Ministry of Development, Infrastructure, Post and Telecommunications.
- Gedney, N., P.M. Cox, R.A. Betts, O. Boucher, C. Huntingford and P.A. Stott, 2006: Detection of a direct carbon dioxide effect in continental river runoff records. *Nature*, **439**(7078), 835–838.
- Genovese, G., C. Lazar and F. Micale, 2005: Effects of observed climate fluctuation on wheat flowering as simulated by the European

- crop growth monitoring system (CGMS). *Proc. Workshop on Adaptation of Crops and Cropping Systems to Climate Change, 7-8 November 2005, Dalam Landbrugsskole, Odense, Denmark*. Nordic Association of Agricultural Scientists, 12 pp.
- Genthon, C., G. Krinner and M. Sacchettini, 2003: Interannual Antarctic tropospheric circulation and precipitation variability. *Clim. Dyn.*, **21**, 289–307.
- GEO-3, 2003: *Global Environmental Outlook*. United Nations Environmental Program, 279 pp. http://www.unep.org/geo/pdfs/GEO_lac2003English.pdf.
- Georges, C., 2004: The 20th century glacier fluctuations in the Cordillera Blanca (Perú). *Arct. Antarct. Alp. Res.*, **36**(1), 100–107.
- Geres, D., 2004: Analysis of the water demand management. *Proc. XXII Conference of the Danubian Countries on the Hydrological Forecasting and Hydrological Bases of Water Management*. Brno, 30 August–2 September 2004. CD-edition.
- Gerolamo, M. and M.F. Penna, 1999: Os primeiros cinco anos da setima pandemia de cólera no Brasil. *Informe Epid. SUS*, **8**(3), 49–58.
- Gerten, D., S. Schaphoff, U. Haberlandt, W. Lucht and S. Sitch, 2004: Terrestrial vegetation and water balance: hydrological evaluation of a dynamic global vegetation model. *J. Hydrol.*, **286**(1–4), 249–270.
- Gibson, J.J., T.D. Prowse and D.L. Peters, 2006: Partitioning impacts of climate and regulation on water level variability in Great Slave Lake. *J. Hydrol.*, **329**, 196–206.
- Gilman, E., H. Van Lavieren, J. Ellison, V. Jungblut, L. Wilson, F. Ereki, G. Brighthouse, J. Bungitak, E. Dus, M. Henry, I. Sauni, M. Kilman, E. Matthews, N. Teariki-Ruatu, S. Tukia, K. Yuknavage, 2006: Pacific island mangroves in a changing climate and rising sea. *UNEP Regional Sea Reports and Studies*, **179**, United Nations Environment Programme, Regional Sea 44 Programme, Nairobi, 45 pp.
- Giorgi, F., X. Bi and J. Pal, 2004: Mean, interannual variability and trend in a regional climate change experiment over Europe. II: Climate change scenarios 2071–2100. *Clim. Dyn.*, **23**, doi:10.1007/s00382-004-0467-0.
- Gitay, H., S. Brown, W. Easterling and B. Jallow, 2001: Ecosystems and their goods and services. *Climate Change 2001: Impacts, Adaptation, and Vulnerability. Contribution 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, 237–342.
- Gitay, H., A. Suárez, R.T. Watson and D.J. Dokken, Eds., 2002: *Climate Change and Biodiversity*. IPCC Technical Paper V, IPCC, Geneva, 85 pp.
- Githeko, A.K. and W. Ndegwa, 2001: Predicting malaria epidemics in Kenyan highlands using climate data: a tool for decision makers. *Global Change Human Health*, **2**, 54–63.
- Glantz, M.H., Ed., 2001: *Once Burned, Twice Shy? Lessons Learned from the 1997–98 El Niño*, United Nations University, 294 pp.
- Gnadlinger, J., 2003: *Captação e Manejo de Água de Chuva e Desenvolvimento Sustentável do Semi-Árido Brasileiro - Uma Visão Integrada*, 4º Simpósio Brasileiro de captação e Manejo de água de chuva. 9-12/07/2003. Juazeiro, BA, 2003.
- Goldenberg, S.B. and Co-authors, 2001: The recent increase in Atlantic hurricane activity: causes and implications. *Science*, **293**, 474–479.
- Golubev, V.S. and Co-authors, 2001: Evaporation changes over the contiguous United States and the former USSR: a reassessment. *Geophys. Res. Lett.*, **28**, 2665–2668.
- Gonzalez, P., 2001. Desertification and a shift of forest species in the West African Sahel. *Clim. Res.*, **17**, 217–228
- Good, P., L. Bärring, C. Giannakopoulos, T. Holt and J. Palutikof, 2006: Non-linear regional relationships between climate extremes and annual mean temperatures in model projections for 1961–2099 over Europe. *Clim. Res.*, **31**, 19–34.
- Gordon, W. and J.S. Famiglietti, 2004: Response of the water balance to climate change in the United States over the 20th and 21st centuries: results from the VEMAP phase 2 model intercomparisons. *Global Biogeochem. Cy.*, **18**, GB1030.
- Gorham, E., 1991: Northern peatlands: role in the carbon cycle and probable responses to climatic warming. *Ecol. Appl.*, **1**, 182–195.
- Government of South Australia, 2005: *Water Proofing Adelaide: A Thirst for Change 2005–2025*. Government of SA, 64 pp. http://www.waterproofingadelaide.sa.gov.au/pdf/wpa_Strategy.pdf.
- Government of Western Australia, 2003: *Securing our Water Future: A State Water Strategy for Western Australia*. Government of WA, 64 pp. http://dows.lincdigital.com.au/files/State_Water_Strategy_complete_001.pdf.
- Government of Western Australia, 2006: *Draft State Water Plan*. Government of WA, 88 pp. <http://dows.lincdigital.com.au/files/Draft%20State%20Water%20Plan.pdf>.
- Graham, N.A.J., S.K. Wilson, S. Jennings, N.V.C. Polunin, J.P. Bijoux and J. Robinson, 2006: Dynamic fragility of oceanic coral reef ecosystems. *P. Natl. Acad. Sci. USA*, **103**, 8425–8429.
- Graves, H. M. and M. C. Phillipson, 2000: Potential implications of climate change in the built environment. *FBE Report 2*. Building Research Establishment Press, London, 74 pp.
- Green, R.E., S.J. Cornell, J.P.W. Scharlemann and A. Balmford, 2005: Farming and the fate of wild nature. *Science*, **307**, 550–555.
- Greenwood, E.A.N., L.B. Klein, J.D. Beresford and G.D. Watson, 1985: Differences in annual evaporation between grazed pasture and eucalyptus species in plantation on a saline farm catchment. *J. Hydrol.*, **78**, 261–278.
- Gregorich, E.G., P. Rochette, A.J. van den Bygaart and D.A. Angers, 2005: Greenhouse gas contributions of agricultural soils and potential mitigation practices in Eastern Canada. *Soil and Tillage Res.*, **83**, 53–72.
- Griffiths, G.M., M.J. Salinger and I. Leleu, 2003: Trends in extreme daily rainfall across the South Pacific and relationship to the South Pacific Convergence Zone. *J. Climatol.*, **23**, 847–869.
- Gritti, E.S., B. Smith and M.T. Sykes., 2006: Vulnerability of Mediterranean Basin ecosystems to climate change and invasion by exotic plant species. *J. Biogeogr.*, **33**, 145–157.
- Groisman, P.Y., R.W. Knight, T.R. Karl, D.R. Easterling, B. Sun and J.H. Lawrimore, 2004: Contemporary changes of the hydrological cycle over the contiguous United States: trends derived from *in situ* observations. *J. Hydrometeorol.*, **5**, 64–85.
- Groisman, P.Y. and Co-authors, 2005: Trends in intense precipitation in the climate record. *J. Clim.*, **18**, 1326–1350.
- Gruza, G. and E. Rankova, 2004: Detection of changes in climate state, climate variability and climate extremity, in *Proc. World Climate Change Conference*, 29 September–3 October, 2003, Moscow, 90–93.
- Gueye, L., M. Bzioul and O. Johnson, 2005: Water and sustainable development in the countries of Northern Africa: coping with challenges and scarcity. *Assessing Sustainable Development in Africa*, Africa’s Sustainable Development Bulletin, Economic Commission for Africa, Addis Ababa, 24–28.
- Guo, Q.X., J.L. Li, J.X. Liu and Y.M. Zhang, 2001: The scientific significance of the forest vegetation ecotone between Daxing’an and Xiaoxing’an Mountains to global climate change study. *J. Forestry, Northeast University*, **29**(5), 1–4.
- Gupta, S.K. and R.D. Deshpande, 2004: Water for India in 2050: first-order assessment of available options. *Current Sci.*, **86**(9), 1216–1224.
- Gutiérrez Teira, B., 2003: Variaciones de las comunidades y poblaciones de macroinvertebrados del tramo alto del río manzanares a causa de la temperatura. Posibles efectos del cambio climático. *Tesis*

- Doctoral. Escuela Técnica Superior de Ingenieros de Montes. Universidad Politécnica de Madrid. Madrid.
- GWP (Global Water Partnership), 2002: *Dialogue on Effective Water Governance*, GWP, 6 pp.
- Haeberli, W. and C. Burn, 2002: Natural hazards in forests - glacier and permafrost effects as related to climate changes. *Environmental Change and Geomorphic Hazards in Forests*, R.C. Sidle, Ed., IUFRO Research Series, 9, 167-202.
- Hales S., N. de Wett, J. Maindonald and A. Woodward, 2002: Potential effect of population and climates change models on global distribution of dengue fever: an empirical model. *Lancet*, **360**, 830-834.
- Hall, C.J. and C.W. Burns, 2002: Mortality and growth responses of *Daphnia carinata* to increases in temperature and salinity. *Freshw. Biol.*, **47**, 451-458.
- Hall, G., R. D'Souza and M. Kirk, 2002: Foodborne disease in the new millennium: out of the frying pan and into the fire? *Med. J. Australia*, **177**, 614-618.
- Hall, J.W., P.B. Sayers and R.J. Dawson, 2005: National-scale assessment of current and future flood risk in England and Wales. *Nat. Hazards*, **36**, 147-164.
- Hamlet, A.F., 2003: The role of transboundary agreements in the Columbia River Basin: an integrated assessment in the context of historic development, climate, and evolving water policy. *Climate, Water, and Transboundary Challenges in the Americas*, H. Diaz and B. Morehouse, Eds., Kluwer Press, Dordrecht, 263-289.
- Harding, R.J., 1992: The modification of climate by forests. *Growth and Water Use of Forest Plantations*, I.R. Calder, R.L. Hall and P.G. Adlard, Eds., John Wiley and Sons, Chichester, 332-346.
- Hareau, A., R. Hofstadter and A. Saizar, 1999: Vulnerability to climate change in Uruguay: potential impacts on the agricultural and coastal resource sectors and response capabilities. *Clim. Res.*, **12**, 185-193.
- Harman, J., M. Gawith and M. Calley, 2005: Progress on assessing climate impacts through the UK Climate Impacts Programme. *Weather*, **60**, 258-262.
- Harrison, G.P. and H.W. Whittington, 2002: Susceptibility of the Batoka Gorge hydroelectric scheme to climate change. *J. Hydrol.*, **264**(1-4), 230-241.
- Hartmann, J., K. Ebi, J. McConnell, N. Chan and J.P. Weyant, 2002: Stable malaria transmission in Zimbabwe under different climate change scenarios. *Global Change and Human Health*, **3**, 2-14.
- Hatfield, J.L. and J.H. Pruger, 2004: Impacts of changing precipitation patterns on water quality. *J. Soil Water Conserv.*, **59**, 51-58.
- Hay, S.I., D.J. Rogers, S.E. Randolph, D.I. Stern, J. Cox, G.D. Shanks and R.W. Snow, 2002a: Hot topic or hot air? Climate change and malaria resurgence in East African highlands. *Trends Parasitol.*, **18**, 530-534.
- Hay, S.I., J. Cox, D.J. Rogers, S.E. Randolph, D.I. Stern, G.D. Shanks, M.F. Myers and R.W. Snow, 2002b: Climate change and the resurgence of malaria in the East African highlands. *Nature*, **415**, 905-909.
- Hay, S.I., G.D. Shanks, D.I. Stern, R.W. Snow, S.E. Randolph and D.J. Rogers, 2005: Climate variability and malaria epidemics in the highlands of East Africa. *Trends Parasitol.*, **21**, 52-53.
- Hayhoe, K. and Co-authors, J.H., 2004: Emissions pathways, climate change, and impacts on California. *P. Natl. Acad. Sci. USA*, **101**, 12422-12427.
- Haylock, M.R. and C.M. Goodess, 2004: Interannual variability of extreme European winter rainfall and links with mean large-scale circulation. *Int. J. Climatol.*, **24**, 759-776.
- Haylock, M.R., T. Peterson, L.M. Alves, T. Ambrizzi, Y.M.T. Anunciação, J. Baez, V.R. Barros, M.A. Berlato and Co-authors, 2006: Trends in total and extreme South American rainfall 1960-2000 and links with sea surface temperature. *J. Climate*, **19**, 1490-1512.
- Helgason, B.L., H.H. Janzen, M.H. Chantigny, C.F. Drury, B.H. Ellert, E.G. Gregorich, Lemke, E. Pattey, P. Rochette and C. Wagner-Riddle, 2005: Toward improved coefficients for predicting direct N₂O emissions from soil in Canadian agroecosystems. *Nutrient Cycling in Agroecosystems*, **71**, 7-99.
- Helms, M., B. Büchele, U. Merkel and J. Ihringer, 2002: Statistical analysis of the flood situation and assessment of the impact of diking measures along the Elbe (Labe) river. *J. Hydrol.*, **267**, 94-114.
- Hemp, A., 2005: Climate change-driven forest fires marginalize the impact of ice cap wasting on Kilimanjaro. *Glob. Change Biol.*, **11**, 1013-1023.
- Hendy, C. and J. Morton, 2001: Drought-time grazing resources in Northern Kenya. *Pastoralism, Drought and Planning: Lessons from Northern Kenya and Elsewhere*, J. Morton, Ed., Natural Resources Institute, Chatham, 139-179.
- Herath, S. and U. Ratnayake, 2004: Monitoring rainfall trends to predict adverse impacts: a case study from Sri Lanka (1964-1993). *Global Environ. Change*, **14**, 71-79.
- Herron, N., R. Davis and R. Jones, 2002: The effects of large-scale afforestation and climate change on water allocation in the Macquarie River catchment, NSW, Australia. *J. Environ. Manage.*, **65**, 369-381.
- Hewitt, K., 2005: The Karakoram anomaly? Glacier expansion and the "elevation effect", Karakoram Himalaya. *Mountain Research and Development*, **25**(4), 332-340.
- Hibbert, A.R., 1967: Forest treatment effects on water yield. *Forest Hydrology. Proc. International Symposium on Forest Hydrology*, W.E. Sopper and H.W. Lull, Eds., Forest hydrology, Pergamon Press, London, 527-543.
- Higashi, H., K. Dairaku and T. Matuura, 2006: Impacts of global warming on heavy precipitation frequency and flood risk. *Jour. Hydrosience and Hydraulic Engineering*, **50**, 205-210.
- Hild, C. and V. Stordhal, 2004: Human health and well-being. *Arctic Human Development Report (AHDR)*. N. Einarsson, J.N. Larsen, A. Nilsson and O.R. Young, Eds., Steffanson Arctic Institute, Akureyri, 155-168 pp.
- Hinzman, L., N. Bettez, W. Bolton, F. Chapin, M. Dyurgerov, C. Fastie, B. Griffith, R. Hollister and Co-authors., 2005: Evidence and implications of recent climate change in northern Alaska and other Arctic regions. *Climatic Change*, **72**, 251-298.
- Hoanh, C.T., H. Guttman, P. Droogers and J. Aerts, 2004: Will we produce sufficient food under climate change? Mekong Basin (South-east Asia). *Climate Change in Contrasting River Basins: Adaptation Strategies for Water, Food, and Environment*, Aerts, J.C.J.H. Aerts and P. Droogers, Eds., CABI Publishing, Wallingford, 157-180.
- Hobbins, M.T., J.A. Ramirez, and T.C. Brown, 2004: Trends in pan evaporation and actual evapotranspiration across the conterminous U.S.: Paradoxical or complementary? *Geophys. Res. Lett.*, **31**, L13503, doi:10/10029/2004GL019846.
- Hock, R., P. Jansson and L. Braun, 2005: Modelling the response of mountain glacier discharge to climate warming. *Global Change and Mountain Regions: A State of Knowledge Overview*. Advances in Global Change Series, U.M. Huber, M.A. Reasoner and H. Bugmann, Eds., Springer, Dordrecht, 243-252.
- Hodgkins, G.A., R.W. Dudley and T.G. Huntington, 2003: Changes in the timing of high river flows in New England over the 20th century. *J. Hydrol.*, **278**(1-4), 244-252.
- Hodgkins, G.A., R.W. Dudley and T.G. Huntington, 2005: Summer low flows in New England during the 20th century. *J. Am. Water Resour. Assoc.*, **41**(2), 403-412.
- Hoelzle, M., W. Haeberli, M. Dischl and W. Peschke, 2003: Secular glacier mass balances derived from cumulative glacier length

- changes. *Global Planet. Change*, **36**, 295–306.
- Holden, N.M., A.J. Brereton, R. Fealy and J. Sweeney, 2003: Possible change in Irish climate and its impact on barley and potato yields. *Agric. For. Meteorol.*, **116**, 181–196.
- Hood, A. and Co-authors, 2002: Options for Victorian Agriculture in a “New” Climate: *A Pilot Study Linking Climate Change Scenario Modelling and Land Suitability Modelling*. Volume One - *Concepts and Analysis*. 62 pp. Volume Two - *Modelling Outputs*. Department of Natural Resources and Environment – Victoria, Australia, 83 pp.
- Hoogwijk, M., 2004: *On the Global and Regional Potential of Renewable Energy Sources*. PhD thesis, Copernicus Institute, Utrecht University, Utrecht, 256 pp.
- Hoogwijk, M., A. Faaij, B. Eickhout, B. de Vries and W. Turkenburg, 2005: Potential of biomass energy out to 2100, for four IPCC SRES land-use scenarios. *Biomass and Bioenergy*, **29**, 225–257.
- Hooijer, M., F. Klijn, G.B.M. Pedroli and A.G. van Os, 2004: Towards sustainable flood risk management in the Rhine and Meuse river basins: synopsis of the findings of IRMA-SPONGE. *River Res. Appl.*, **20**, 343–357.
- Hortle, K. and S. Bush, 2003: Consumption in the Lower Mekong Basin as a measure of fish yield. *New Approaches for the Improvement of Inland Capture Fishery Statistics in the Mekong Basin*, T. Clayton, Ed., FAO RAP Publication 2003/01, Bangkok, 76–88.
- Howe, A.D., S. Forster, S. Morton, R. Marshall, K.S. Osborn, P. Wright and P.R. Hunter, 2002: *Cryptosporidium* oocysts in a water supply associated with a cryptosporidiosis outbreak. *Emerg. Infect. Dis.*, **8**, 619–624.
- Howe, C., R.N. Jones, S. Maheepala and B. Rhodes, 2005: *Implications of Potential Climate Change for Melbourne’s Water Resources*. CSIRO Urban Water, CSIRO Atmospheric Research and Melbourne Water, Melbourne, 26 pp.
- Hu, D.X., W.Y. Han and S. Zhang, 2001: *Land–Ocean Interaction in Changjiang and Zhujiang Estuaries and Adjacent Sea Areas*. China Ocean Press, Beijing, 218 pp (in Chinese).
- Huang, H.J., F. Li, J.Z. Pang, K.T. Le and S.G. Li, 2005: *Land–Ocean Interaction between Huanghe Delta and Bohai Gulf and Yellow Sea*. China Science Press, Beijing, 313 pp (in Chinese).
- Huang, Z.G. and Xie X.D., 2000: *Sea Level Changes in Guangdong and its Impacts and Strategies*. Guangdong Science and Technology Press, Guangzhou, 263 pp.
- Huffaker, R., 2005: Finding a modern role for the prior appropriation doctrine in the American West. *Water Institutions: Policies, Performance and Prospects*, C. Gopalakrishnan, C. Tortajada and A.K. Biswas, Eds., Springer, Berlin, 187–200.
- Hunt, M., 2005: *Flood Reduction Master Plan*, Presented to the City of Peterborough City Council, Peterborough, Canada.
- Hunter, P.R., 2003: Climate change and waterborne and vector-borne disease. *J. Appl. Microbiol.*, **94**, 37S–46S.
- Huntington, T.G., 2006: Evidence for intensification of the global water cycle: review and synthesis. *J. Hydrol.*, **319**, 83–95.
- Hurrell, J.W. and Co-authors, 2003: An overview of the North Atlantic Oscillation. *The North Atlantic Oscillation: Climatic Significance and Environmental Impact*, J.W. Hurrell and Co-authors, Eds., Geophysical Monograph 134, American Geophysical Union, Washington, DC, 1–35.
- Hurtado-Díaz, M., H. Riojas-Rodríguez, S.J. Rothenberg, H. Gomez-Dantés and E. Cifuentes-García, 2006: Impacto de la variabilidad climática sobre la incidencia del dengue en México. *International Conference on Environmental Epidemiology and Exposure*, Paris.
- Huston, M.A. and G. Marland, 2003: Carbon management and biodiversity. *J. Environ. Manage.*, **67**, 77–86.
- Hyvarinen, V., 2003: Trend and characteristics of hydrological time series in Finland. *Nordic Hydrol.*, **34**, 71–91.
- Iafiazova, R.K., 1997: Climate change impact on mud flow formation in Trans-Ili Alatau mountains. *Hydrometeorology and Ecology*, **3**, 12–23 (in Russian).
- ICID (International Commission on Irrigation and Drainage, New Delhi), 2005: *Water Policy Issues of Egypt*, Country Policy Support Programme, 36 pp.
- Iglesias, A., T. Estrela and F. Gallart, 2005: Impactos sobre los recursos hídricos. *Evaluación Preliminar de los Impactos en España for Efecto del Cambio Climático*, J.M. Moreno, Ed., Ministerio de Medio Ambiente, Madrid, 303–353.
- Inouye, D.W., B. Barr, K.B. Armitage and B.D. Inouye, 2000: Climate change is affecting altitudinal migrants and hibernating species. *P. Natl. Acad. Sci. USA*, **97**(4), 1630–1633.
- Instanes, A. and Co-authors, 2005: Infrastructure: buildings, support systems, and industrial facilities. *Arctic Climate Impact Assessment, ACIA*. C. Symon, L. Arris and B. Heal, Eds., Cambridge University Press, Cambridge, 907–944.
- IOCI, 2002: *Climate Variability and Change in SouthWest Western Australia*. Indian Ocean Climate Initiative. Perth, Australia, 36 pp. http://www.ioci.org.au/publications/pdf/IOCI_CVCSW02.pdf.
- IPCC (Intergovernmental Panel on Climate Change), 2000: *Land Use, Land-Use Change and Forestry*, R. T. Watson, I. R. Noble, B. Bolin, N. H. Ravindranath, D. J. Verardo and D. J. Dokken, Eds., Cambridge University Press, Cambridge, 375 pp.
- IPCC (Intergovernmental Panel on Climate Change), 2001a: *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. Johnson, Eds., Cambridge University Press, Cambridge, 881 pp.
- IPCC (Intergovernmental Panel on Climate Change), 2001b: *Climate Change 2001: Impacts, Adaptation, and Vulnerability. Contribution 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, 1032 pp.
- IPCC (Intergovernmental Panel on Climate Change), 2001c: *Climate Change 2001: Mitigation. Contribution of Working Group III to the Third Assessment Report of the Intergovernmental Panel on Climate Change*, B. Metz, O. Davidson, R. Swart and J. Pan, Eds., Cambridge University Press, Cambridge, 760 pp.
- 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*, S. Solomon, D. Qin, M. Manning, Z. Chen, M. Marquis, K. B. Averyt, M. Tignor and H. L. Miller, Eds., Cambridge University Press, Cambridge, 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, 976 pp.
- IPCC (Intergovernmental Panel on Climate Change), 2007c: *Climate Change 2007: Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, B. Metz, O. Davidson, P. Bosch, R. Dave and L. Meyer, Eds., Cambridge University Press, Cambridge, 851 pp.
- 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, R.K. Pachauri and A. Reisinger, Eds., IPCC, Geneva, 102 pp.
- IRDB, 2000: *Gestión de los Recursos Hídricos de Argentina*.

- Elementos de Política para su Desarrollo Sustentable en el siglo XXI. Oficina Regional de América Latina y Caribe. Unidad Departamental de Argentina y los Grupos de Finanzas, Sector Privado y Infraestructura, y Medio Ambiente y Desarrollo Social Sustentable. Informe No. 20.729-AR. August 2000.
- Iensee, A.R. and A.M. Sadeghi, 1996: Effect of tillage reversal on herbicide leaching to groundwater. *Soil Sci.*, **161**, 382-389.
- Ivanov, B. and T. Maximov, Eds., 2003: *Influence of Climate and Ecological Changes on Permafrost Ecosystems*. Yakutsk Scientific Center Publishing House, Yakutsk, 640 pp.
- Ivey, J.L., J. Smithers, R.C. de Loe and R.D. Kreutzweiser, 2004: Community capacity for adaptation to climate-induced water shortages: linking institutional complexity and local actors. *Environ. Manage.*, **33**(1), 36-47.
- Izrael, Y.A. and Y.A. Anokhin, 2001: Climate change impacts on Russia. *Integrated Environmental Monitoring*, Nauka, Moscow, 112-127 (in Russian with an English abstract).
- Izrael, Y.A., Y.A. Anokhin and A.V. Pavlov, 2002: Permafrost evolution and the modern climate change. *Meteorol. Hydrol.*, **1**, 22-34.
- Jackson, R.B., E.G. Jobbágy, R. Avissar, S. Baidya Roy, D. Barrett, C.W. Cook, K.A. Farley, D.C. le Maitre, B.A. McCarl and B.C. Murray, 2005: Trading water for carbon with biological carbon sequestration. *Science*, **310**, 1944-1947.
- Jansson, P., R. Hock and T. Schneider, 2003: The concept of glacier storage: a review. *J. Hydrol.*, **282**, 116-129.
- Jasper, K., P. Calanca, D. Gyalistras and J. Fuhrer, 2004: Differential impacts of climate change on the hydrology of two alpine rivers. *Clim. Res.*, **26**, 113-125.
- Jenkins, B., 2006: Overview of Environment Canterbury water issues. managing drought in a changing climate. *Royal Society of New Zealand Drought Workshop, 10 April 2006*, Christchurch, NZ. http://www.rsnz.org/advisory/nz_climate/workshopApr2006/.
- Jepesen, E., J.P. Jensen and M. Søndergaard, 2003: Climatic warming and regime shifts in lake food webs: some comments. *Limnol. Oceanogr.*, **48**, 1346-1349.
- Jiménez, B., 2003: Health risks in aquifer recharge with recycle water. *State of the Art Report Health Risk in Aquifer Recharge using Reclaimed Water*, R. Aertgeerts and A. Angelakis, Eds., WHO Regional Office for Europe, 54-172.
- Jin, Z.Q., C.L. Shi, D.K. Ge and W. Gao, 2001: Characteristic of climate change during wheat growing season and the orientation to develop wheat in the lower valley of the Yangtze River. *Jiangsu J. Agric. Sci.*, **17**(4), 193-199.
- Jiongxin, X., 2003: Sediment flux to the sea as influenced by changing human activities and precipitation: example of the Yellow River, China. *Environ. Manage.*, **31**, 328-341.
- Johannessen, O.M., Khvorostovsky, K., Miles, M.W. and Bobylev, L.P., 2005: Recent ice-sheet growth in the interior of Greenland. *Science*, **310**(5750), 1013-1016.
- Johnson, W.C., B.V. Millett, T. Gilmanov, R.A. Voldseth, G.R. Guntenspergen and D.E. Naugle, 2005: Vulnerability of northern prairie wetlands to climate change. *BioScience*, **55**(10), 863-872.
- Jones, B. and D. Scott, 2006: Implications of climate change to Ontario's provincial parks. *Leisure*, **30** (1), 233-261.
- Jones, J.A. and G.E. Grant, 1996: Peak flow response to clear-cutting and roads in small and large basins, western Cascades, Oregon. *Water Resour. Res.*, **32**, 959-974.
- Jones, M.L., B.J. Shuter, Y.M. Zhao and J.D. Stockwell, 2006: Forecasting effects of climate change on Great Lakes fisheries: models that link habitat supply to population dynamics can help. *Can. J. Fish. Aquat. Sci.*, **63**, 457-468.
- Jones, P.D., T.J. Osborn and K.R. Briffa, 2003a: Pressure-based measures of the North Atlantic Oscillation (NAO): A comparison and an assessment of changes in the strength of the NAO and in its influence on surface climate parameters. *The North Atlantic Oscillation: Climatic Significance and Environmental Impact*, Hurrell, J.W. and Co-authors, Eds., Geophysical Monograph 134, American Geophysical Union, Washington, DC, 51-62.
- Jones, P.D., D.H. Lister, K.W. Jaggard and J.D. Pidgeon, 2003b: Future climate impact on the productivity of sugar beet (*Beta vulgaris* L.) in Europe. *Climatic Change*, **58**, 93-108.
- Jones, R. and P. Durack, 2005: *Estimating the Impacts of Climate Change on Victoria's Runoff using a Hydrological Sensitivity Model*. Consultancy Report for the Victorian Department of Sustainability and Environment, 50 pp.
- Jones, R.N. and C.M. Page, 2001: Assessing the risk of climate change on the water resources of the Macquarie River catchment. *Integrating Models for Natural Resources Management Across Disciplines: Issues and Scales*, F. Ghassemi, P.H. Whetton, R. Little and M. Littleboy, Eds., Modelling and Simulation Society of Australia and New Zealand, Canberra, 673-678.
- Jordan, E., 1991: *Die gletscher der bolivianischen Anden: eine photogrammetrisch-kartographische Bestandsaufnahme der Gletscher Boliviens als Grundlage für klimatische Deutungen und Potential für die wirtschaftliche Nutzung (The Glaciers of the Bolivian Andes, A Photogrammetric-Cartographical Inventory of the Bolivian Glaciers as a Basis for Climatic Interpretation and Potential for Economic Use)*. Erdwissenschaftliche Forschung 23, Franz Steiner Verlag, Stuttgart, 401 pp.
- Jorgenson, M.T., C.H. Racine, J.C. Walters and T.E. Osterkamp, 2001: Permafrost degradation and ecological changes associated with a warming climate in central Alaska. *Climatic Change*, **48**(4), 551-571.
- Justic, D., N.N. Rabalais and R.E. Turner, 2005: Coupling between climate variability and coastal eutrophication: evidence and outlook for the northern Gulf of Mexico. *J. Sea Res.*, **54**(1), 25-35.
- Kabat, P., R.E. Schulze, M.E. Hellmuth and J.A. Veraart, Eds., 2002: *Coping with Impacts of Climate Variability and Climate Change in Water Management: a Scoping Paper*. DWC Report No. DWCSSO-01(2002), International Secretariat of the Dialogue on Water and Climate, Wageningen.
- Kajiwaru, M., T. Oki and J. Matsumoto, 2003: *Inter-annual Variability of the Frequency of Severe Rainfall in the Past 100 Years over Japan*. Extended abstract for a bi-annual meeting of the Meteorological Society of Japan (in Japanese).
- Kanai, S., T. Oki and A. Kashida, 2004: Changes in hourly precipitation at Tokyo from 1890 to 1999. *J. Meteor. Soc. Japan*, **82**, 241-247.
- Kane, R.P., 2002: Precipitation anomalies in southern America associated with a finer classification of El Niño and La Niña events. *Int. J. Climatol.*, **22**, 357-373.
- Kang, G., B.S. Ramakrishna, J. Daniel, M. Mathan and V. Mathan, 2001: Epidemiological and laboratory investigations of outbreaks of diarrhoea in rural South India: implications for control of disease. *Epidemiol. Infect.*, **127**, 107.
- Karst-Riddoch, T.L., M.F.J. Pisaric and J.P. Smol, 2005: Diatom responses to 20th century climate-related environmental changes in high-elevation mountain lakes of the northern Canadian Cordillera. *J. Paleolimnol.*, **33**, 265-282.
- Kaser, G. and H. Osmaston, 2002: *Tropical Glaciers*. UNESCO International Hydrological Series. Cambridge University Press, Cambridge, 207 pp.
- Kaser, G. and Co-authors, 2003: The impact of glaciers on the runoff and the reconstruction of mass balance history from hydrological data in the tropical Cordillera Blanca, Peru. *J. Hydrol.*, **282**, 130-144.
- Kashyap, A., 2004: Water governance: learning by developing adaptive capacity to incorporate climate variability and change. *Water Sci. Technol.*, **19**(7), 141-146.
- Kaspar, F., 2003: *Entwicklung und Unsicherheitsanalyse eines globalen hydrologischen (Model Development and Uncertainty Analysis of*

- a *Global Hydrological Model*). University of Kassel, Kassel, PhD thesis.
- Kaste, Ø., K. Rankinen and A. Leipistö, 2004: Modelling impacts of climate and deposition changes on nitrogen fluxes in northern catchments of Norway and Finland. *Hydrol. Earth Syst. Sci.*, **8**, 778–792.
- Kay, A., V. Bell and H. Davies, 2006a: *Model Quality and Uncertainty for Climate Change Impact*. Centre for Ecology and Hydrology, Wallingford.
- Kay, A., N.A. Reynard and R.N. Jones, 2006b: RCM rainfall for UK flood frequency estimation. II. Climate change results. *J. Hydrol.*, **318**, 163–172.
- Keddy, P.A., 2000: *Wetland Ecology: Principles and Conservation*. Cambridge University Press, Cambridge, 614 pp.
- Keller, F., S. Goyette and M. Beniston, 2005: Sensitivity analysis of snow cover to climate change scenarios and their impact on plant habitats in alpine terrain. *Climatic Change*, **72**(3), 299–319.
- Kergoat, L., S. Lafont, H. Douville, B. Berthelot, G. Dedieu, S. Planton and J.-F. Royer, 2002: Impact of doubled CO₂ on global-scale leaf area index and evapotranspiration: conflicting stomatal conductance and LAI responses. *J. Geophys. Res.*, **107**(D24), 4808.
- Kerr, R., 2000: A North Atlantic climate pacemaker for the centuries. *Science*, **288**, 1984–1985.
- Kerr, S.A., 2005: What is small island sustainable development about? *Ocean Coast. Manage.*, **48**, 503–524.
- Khan, T.M.A., O.P. Singh and M.S. Rahman, 2000: Recent sea level and sea surface temperature trends along the Bangladesh coast in relation to the frequency of intense cyclones. *Marine Geodesy*, **23**(2), 103–116.
- Kharkina, M.A., 2004: Natural resources in towns. *Energia*, **2**, 44–50.
- Kirschbaum, M. and A. Fischlin, 1996: Climate change impacts on forests. *Climate Change 1995: Impacts, Adaptations and Mitigation of Climate Change. Scientific-Technical Analysis. Contribution of Working Group II to the Second Assessment Report of the Intergovernmental Panel of Climate Change.*, R. Watson, M.C. Zinyowera and R.H. Moss, Eds., Cambridge University Press, Cambridge, 95–129.
- Kirshen, P., M. McCluskey, R. Vogel and K. Strzepek, 2005a: Global analysis of changes in water supply yields and costs under climate change: a case study in China. *Climatic Change*, **68**(3), 303–330.
- Kirshen, P., M. Ruth and W. Anderson, 2005b: Responding to climate change in Metropolitan Boston: the role of adaptation. *New Engl. J. Public Pol.*, **20**(2), 89–104.
- Kirshen, P., M. Ruth and W. Anderson, 2006: Climate's long-term impacts on urban infrastructures and services: the case of Metro Boston. *Regional Climate Change and Variability: Impacts and Responses*, M. Ruth, K. Donaghy and P.H. Kirshen, Eds., Edward Elgar Publishers, Cheltenham, 190–252.
- Kishor, P.B.K., Z. Hong, G. Miao, C. Hu and D. Verma, 1995: Overexpression of $\Delta 1$ -pyrroline-5-carboxylase synthase increases proline production and confers osmotolerance in transgenic plants. *J. Plant Physiol.*, **108**, 1387–1394.
- Kistemann, T., T. Classen, C. Koch, F. Dagendorf, R. Fischeder, J. Gebel, V. Vacata and M. Exner, 2002: Microbial load of drinking water reservoir tributaries during extreme rainfall and runoff. *Appl. Environ. Microbiol.*, **68**(5), 2188–2197.
- Kjellström, E., 2004: Recent and future signatures of climate change in Europe. *Ambio*, **23**, 193–198.
- Klanderud, K. and H.J.B. Birks, 2003: Recent increases in species richness and shifts in altitudinal distributions of Norwegian mountain plants. *Holocene*, **13**(1), 1.
- Klein, R.J., T.J. Nicholls, and J. Thomalla, 2003: The resilience of coastal mega cities to weather-related hazards in building safer cities: *The Future of Climate Change*, A. Kreimer, M. Arnold and A. Karlin, Eds., World Bank, Washington, DC, 101–121.
- Klein Tank, A.M.G., J.B. Wijngaard, G.P. Konnen, R. Bohm, G. Demaree, A. Gocheva, M. Miletta, S. Pashiardis, L. Hejkrlik, C. Kern-Hansen, R. Heino, P. Bessemoulin, G. Muller-Westermeier, M. Tzanakou, S. Szalai, T. Palsdottir, D. Fitzgerald, S. Rubin, M. Capaldo, M. Maugeri, A. Leitass, A. Bukantis, R. Aberfeld, A.F.V. VanEngelen, E. Forland, M. Miletus, F. Coelho, C. Mares, V. Razuvaev, E. Nieplova, T. Cegnar, J.A. López, B. Dahlstrom, A. Moberg, W. Kirchhofer, A. Ceylan, O. Pachaliuk, L.V. Alexander and P. Petrovic, 2002: Daily dataset of 20th-century surface air temperature and precipitation series for the European Climate Assessment. *Int. J. Climatol.*, **22**, 1441–1453.
- Klein Tank, A.M.G. and G.P. Können, 2003: Trends in indices of daily temperature and precipitation extremes in Europe, 1946–1999. *J. Clim.*, **16**, 3665–3680.
- Klijn, F., J. Dijkman and W. Silva, 2001: *Room for the Rhine in the Netherlands. Summary of Research Results*. RIZA Report 2001.033, Rijkswaterstaat, Utrecht.
- Klijn, F., M. van Buuren and S.A.M. van Rooij, 2004: Flood-risk management strategies for an uncertain future: living with Rhine river floods in the Netherlands? *Ambio*, **33**(3), 141–147.
- Knight, C.G., I. Raev, and M. P. Staneva, Eds., 2004: *Drought in Bulgaria: A Contemporary Analog of Climate Change*. Ashgate, Aldershot, Hampshire 336 pp.
- Knight, J. and Co-authors, 2005: a signature of persistent natural thermohaline circulation cycles in observed climate. *Geophys. Res. Lett.*, **32**, L20708, doi:10.2929/2005GL024233.
- Knowles, N., M.D. Dettinger and D.R. Cayan, 2006: Trends in snowfall versus rainfall for the western United States, 1949–2004. *J. Climate*, **18**, 1136–1155.
- Ko, A., R.M. Galvão, D. Ribeiro, C.M. Dourado, W.D. Johnson Jr. and L.W. Riley, 1999: Urban epidemic of severe leptospirosis in Brazil, Salvador. Leptospirosis Study Group. *Lancet*, **354**, 820–825.
- Kobayashi, K., 1987: Hydrologic effects of rehabilitation treatment for bare mountain slopes. *Bull. Forestry Forest Products Res. Instit.*, **300**, 151–185.
- Koga, N., T. Sawamoto and H. Tsuruta 2006: Life cycle inventory-based analysis of greenhouse gas emissions from arable land farming systems in Hokkaido, northern Japan. *Soil Science and Plant Nutrition*, **52**, 564–574.
- Korhola, A. and Co-authors, 2002: A multi-proxy analysis of climate impacts on recent ontogeny of subarctic Lake Sannajarvi in Finnish Lapland. *J. Paleolimnol.*, **1**, 59–77.
- Körner, C., 1999: *Alpine Plant Life: Functional Plant Ecology of High Mountain Ecosystems*. Springer, Berlin, 343 pp.
- Kosek, M., C. Bern and R.L. Guerrant, 2003: The global burden of diarrhoeal disease, as estimated from studies published between 1992 and 2000. *Bull. World Health Organ.*, **81**, 197–204.
- Kovats, R.S. and C. Tirado, 2006: Climate, weather and enteric disease. *Climate Change and Adaptation Strategies for Human Health*, B. Menne and K.L. Ebi, Eds., Springer, Darmstadt, 269–295.
- Kovats, R.S., Campbell-Lendrum D. and Matthies, F., 2005: Climate change and human health: estimating avoidable deaths and disease. *Risk Analysis*, **25**(6), 1409–1418.
- Kramer, R., D. Richter, S. Pattanayak and N. Sharma, 1997: Economic and ecological analysis of watershed protection in eastern Madagascar. *J. Environ. Manage.*, **49**, 277–295.
- Krauss, K.W., J.L. Chambers, J.A. Allen, D.M. Soileau Jr and A.S. DeBosier, 2000: Growth and nutrition of baldcypress families planted under varying salinity regimes in Louisiana, USA. *J. Coast. Res.*, **16**, 153–163.
- Kriticos, D.J., T. Yonow and R.C. McFadyen, 2005: The potential distribution of *Chromolaena odorata* (Sim weed) in relation to climate. *Weed Research*, **45**, 246–254

- Kron, W. and G. Berz, 2007: Flood disasters and climate change: trends and options – a (re-)insurer's view. *Global Change: Enough Water for All?* J.L. Lozán, H. Graßl, P. Hupfer, L. Menzel and C.-D. Schönwiese, Eds., University of Hamburg, Hamburg, 268-273.
- Krüger, A., U. Ulbrich and P. Speth, 2002: Groundwater recharge in Northrhine-Westfalia by a statistical model for greenhouse gas scenarios. *Physics and Chemistry of the Earth, Part B: Hydrology, Oceans and Atmosphere*, **26**, 853–861.
- Krysanova, V. and F. Wechsung, 2002: Impact of climate change and higher CO₂ on hydrological processes and crop productivity in the state of Brandenburg, Germany. *Climatic Change: Implications for the Hydrological Cycle and for Water Management*, M. Beniston, Ed., Kluwer, Dordrecht, 271–300.
- Krysanova, V., F. Hattermann and A. Habeck, 2005: Expected changes in water resources availability and water quality with respect to climate change in the Elbe River basin (Germany). *Nordic Hydrol.*, **36**(4-5), 321–333.
- Kumagai, M., K. Ishikawa and J. Chunmeng, 2003: Dynamics and biogeochemical significance of the physical environment in Lake Biwa. *Lakes Reserv. Res. Manage.*, **7**, 345-348.
- Kumar, P.K., 2006: Potential vulnerability implications of sea level rise for the coastal zones of Cochin, southwest coast of India. *Environ. Monitor. Assess.*, **123**, 333–344.
- Kundzewicz, Z.W., U. Ulbrich, T. Brücher, D. Graczyk, A. Krüger, G. Leckebusch, L. Menzel, I. Pińskwar, M. Radziejewski and M. Szwed, 2005: Summer floods in Central Europe climate change track? *Nat. Hazards*, **36**(1/2), 165–189.
- Kundzewicz, Z.W., M. Radziejewski and I. Pińskwar, 2006: Precipitation extremes in the changing climate of Europe. *Clim. Res.*, **31**, 51–58.
- Kunkel, K.E. and Co-authors, 2003: Temporal variations of extreme precipitation events in the United States: 1895–2000. *Geophys. Res. Lett.*, **30**, 1900, doi:10.1029/2003GL018052.
- Kupek, E., M.C. de Sousa Santos Faversoni and J.M. de Souza Philippi, 2000: The relationship between rainfall and human leptospirosis in Florianópolis, Brazil, 1991–1996. *Braz. J. Infect. Dis.*, **4**, 131-134.
- La Nación, 2002: Buenos Aires, 13 March.
- Labat, D. and Co-authors, 2004: Evidence for global runoff increase related to climate warming. *Adv. Water Resources*, **27**, 631–642.
- Lal, M., 2002: *Global climate change: India's monsoon and its variability*, Final Report under “Country Studies Vulnerability and Adaptation” Work Assignment with Stratus Consulting's Contract of the U.S. Environmental Protection Agency, September 2002, 58 pp.
- Lal, R., 2003: Offsetting global CO₂ emissions by restoration of degraded soils and intensification of world agriculture and forestry. *Land Degradation and Dev.*, **14**, 309–322.
- Lal, R., 2004: Soil carbon sequestration impacts on global climate change and food security. *Science*, **304**, 1623-1627.
- Lal, R., J.M. Kimble and R.F. Follett, 1999: Agricultural practices and policies for carbon sequestration in soil. *Recommendation and Conclusions of the International Symposium*, 19-23 July 1999, Columbus, OH, 12 pp.
- Lama, J.R., C.R. Seas, R. León-Barúa, E. Gotuzzo and R.B. Sack, 2004: Environmental temperature, cholera, and acute diarrhoea in adults in Lima, Peru. *J. Health Popul. Nutr.*, **22**, 399–403.
- Larsen, C.F., R.J. Motyka, J.T. Freymueller, K.A. Echelmeyer and E.R. Ivins, 2005: Rapid uplift of southern Alaska caused by recent ice loss. *Geophys. J. Int.*, **158**, 1118-1133.
- Latenser, M. and M. Schneebeli, 2003: Long-term snow climate trends of the Swiss Alps (1931–99). *Int. J. Climatol.*, **23**, 733–750.
- Latif, M., 2001: Tropical Pacific/Atlantic Ocean interactions at multi-decadal time scales. *Geophys. Res. Lett.*, **28**, 539–542.
- Le Maitre, D.C. and D.B. Versfeld, 1997: Forest evaporation models: relationships between stand growth and evaporation. *J. Hydrol.*, **193**, 240-257.
- Le Treut, H., R. Somerville, U. Cubasch, Y. Ding, C. Mauritzen, A. Mokssit, T. Peterson and M. Prather, 2007: Historical overview of climate change science. *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, S. Solomon, D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller, Eds., Cambridge University Press, Cambridge, 93-128.
- Lean, J., C.B. Buntoon, C.A. Nobre and P.R. Rowntree, 1996: The simulated impact of Amazonian deforestation on climate using measured ABRACOS vegetation characteristics. *Amazonian Deforestation and Climate*, J.H.C. Gash, C.A. Nobre, J.M. Roberts and T.L. Victoria, Eds., John Wiley and Sons, Chichester, 549-576.
- Leary, N., J. Adejuwon, W. Bailey, V. Barros, M. Caffera, S. Chinvarno, C. Conde, A. De Comarmond, A. De Sherbinin, T. Downing, H. Eakin, A. Nyong, M. Opondo, B. Osman, R. Payet, F. Pulhin, J. Pulhin, J. Ratnasiri, E. Sanjak, G. von Maltitz, M. Wehbe, Y. Yin and G. Ziervogel, 2006: For whom the bell tolls: vulnerabilities in a changing climate. *AIACC Working Paper No. 30*, International START Secretariat, Washington, DC, 31 pp.
- Leemans, R. and A. Kleidon, 2002: Regional and global assessment of the dimensions of desertification. *Global Desertification: Do Humans Cause Deserts?* J.F. Reynold and D.S. Smith, Eds., Dahlem University Press, Berlin, 215-232.
- Legates, D.R., H.F. Lins and G.J. McCabe, 2005: Comments on “Evidence for global runoff increase related to climate warming” by Labat et al. *Adv. Water Resour.*, **28**, 1310-1315.
- Lehner, B., G. Czigis and S. Vassolo, 2005: The impact of global change on the hydropower potential of Europe: a model-based analysis. *Energ. Policy*, **33**, 839–855.
- Lehner, B., P. Döll, J. Alcamo, T. Henrichs and F. Kaspar, 2006: Estimating the impact of global change on flood and drought risks in Europe: a continental, integrated analysis. *Climatic Change*, **75**, 273–299.
- Leipprand, A. and D. Gerten, 2006: Global effects of doubled atmospheric CO₂ content on evapotranspiration, soil moisture and runoff under potential natural vegetation. *Hydrol. Sci. J.*, **51**, 171–185.
- Lemmen, D. S. and F. J. Warren, Eds., 2004: *Climate Change Impacts and Adaptation: A Canadian Perspective*. Climate Change Impacts and Adaptation Directorate, Natural Resources Canada, Ottawa, Canada, 201 pp, http://adaptation.nrcan.gc.ca/perspective_e.asp.
- Lenderink, G., A. vanUlden, B. van den Hurk and E. van Meijgaard, 2007: Summertime inter-annual temperature variability in an ensemble of regional model simulations: analysis of the surface energy budget. *Climatic Change*, **81**, S233-S247.
- Lewsey, C., Gonzalo, C. and Kruse, E., 2004: Assessing climate change impacts on coastal infrastructure in the Eastern Caribbean. *Marine Policy*, **28**, 393–409.
- Li, C., S. Frolking and K. Butterbach-Bahl, 2005: Carbon sequestration in arable soils is likely to increase nitrous oxide emissions, offsetting reductions in climate radiative forcing. *Climatic Change*, **72**, 321-338.
- Li, C.X., D.D. Fan, B. Deng and V. Korotaev, 2004: The coasts of China and issues of sea level rise. *J. Coast. Res.*, **43**, 36–47.
- Liebig, M.A., J.A. Morgan, J.D. Reeder, B.H. Ellert, H.T. Gollany and G.E. Schuman, 2005: Greenhouse gas contributions and mitigation potential of agricultural practices in northwestern USA and western Canada. *Soil and Tillage Res.*, **83**, 25-52.
- Lincoln Environmental, 2000: *Information on Water Allocation in New Zealand*. Report No. 4375/1, prepared for Ministry for the Environment by Lincoln Ventures Ltd, Canterbury, New Zealand. <http://www.mfe.govt.nz/publications/water/water-allocation-apr00.pdf>.
- Lindstrom, G. and S. Bergstrom, 2004: Runoff trends in Sweden

- 1807–2002. *Hydrol. Sci. J.*, **49**(1), 69–83.
- Liniger, H. and R. Weingartner, 1998: Mountains and freshwater supply. *Unasylva*, **195**(49), 39–46.
- Lipp, E. and Co-authors, 2001: The effects of seasonal variability and weather on microbial faecal pollution and enteric pathogens in a subtropical estuary. *Estuaries*, **24**, 226–276.
- Liu, B.H. and Co-authors, 2004: A spatial analysis of pan evaporation trends in China, 1955–2000. *J. Geophys. Res.*, **109**, D15102, doi:10.1029/2004JD004511.
- Liu, C.Z., 2002: Suggestion on water resources in China corresponding with global climate change. *China Water Resources*, **2**, 36–37.
- Liu, S.G., Li, C.X., Ding, J., Li, X.Z. and Ivanov, V.V., 2001: The rough balance of progradation and erosion of the Yellow River delta and its geological meaning. *Marine Geology and Quaternary Geology*, **21**(4), 13–17.
- Liu, Y.B. and Y.N. Chen, 2006: Impact of population growth and land-use change on water resources and ecosystems of the arid Tarim River Basin in western China. *Int. J. Sust. Dev. World*, **13**, 295–305.
- Llasat, M.C., 2001: An objective classification of rainfall intensity in the Northeast of Spain. *Int. J. Climatol.*, **21**, 1385–1400.
- 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**(4), 537–554.
- London Climate Change Partnership, 2004: *London's Warming: A Climate Change Impacts in London Evaluation Study*, London, 293 pp.
- LOSLR (International Lake Ontario–St. Lawrence River Study Board), 2006: *Options for Managing Lake Ontario and St. Lawrence River Water Levels and Flows*. Final Report to the International Joint Commission. <http://www.losl.org/reports/finalreport-e.html>.
- Luoto, M., R.K. Heikkinen and T.R. Carter, 2004: Loss of palustrine mires in Europe and biological consequences. *Environ. Conserv.*, **31**, 30–37.
- MacDonald, R., T. Harner, J. Fyfe, H. Loeng and T. Weingartner, 2003: Influence of Global Change on Contaminant Pathways to, within and from the Arctic. *ANAO Assessment 2002*. Arctic Monitoring and Assessment Programme. Oslo, 65 pp.
- Machado, P.L.O.A. and C.A. Silva, 2001: Soil management under no-tillage systems in the tropics with special reference to Brazil. *Nutrient Cycling in Agroecosystems*, **61**, 119–130.
- Madari, B., P.L.O.A. Machado, E. Torres, A.G. Andrade and L.I.O. Valencia, 2005: No tillage and crop rotation effects on soil aggregation and organic carbon in a Fhodic Ferralsol from southern Brazil. *Soil and Tillage Research*, **80**, 185–200.
- Magadza, C., 2000: Climate change impacts and human settlements in Africa: prospects for adaptation. *Environ. Monit. Assess.*, **61**(1), 193–205.
- Magrin, G.O., M.I. Travasso and G.R. Rodríguez, 2005: Changes in climate and crops production during the 20th century in Argentina. *Climatic Change*, **72**, 229–249.
- Manton, M.J., P.M. Della-Marta, M.R. Haylock, K.J. Hennessy, N. Nicholls, L.E. Chambers, D.A. Collins, G. Daw, A. Finet, D. Gunawan, K. Inape, H. Isobe, T.S. Kestin, P. Lefale, C.H. Leyu, T. Lwin, L. Maitrepierre, N. Ouprasitwong, C.M. Page, J. Pahalad, N. Plummer, M.J. Salinger, R. Suppiah, V.L. Tran, B. Trewin, I. Tibig and D. Lee, 2001: Trends in extreme daily rainfall and temperature in Southeast Asia and the South Pacific; 1961–1998. *Int. J. Climatol.*, **21**, 269–284.
- Manuel, J., 2006: In Katrina's wake. *Environ. Health Persp.*, **114**, A32–A39.
- Marengo, J.A., 2004: Interdecadal variability and trends of rainfall variability in the Amazon basin. *Theor. Appl. Climatol.*, **78**, 79–96.
- Mark, B.G. and G.O. Seltzer, 2003: Tropical glacier meltwater contribution to stream discharge: a case study in the Cordillera Blanca, Perú. *J. Glaciol.*, **49**, 271–281.
- Marland, G., B.A. McCarl and U.A. Schneider, 2001: Soil carbon: policy and economics. *Climatic Change*, **51**, 101–117.
- Marland, G., T.O. West, B. Schlamadinger and L. Canella, 2003: Managing soil organic carbon in agriculture: the net effect on greenhouse gas emissions. *Tellus*, **55B**, 613–621.
- Martin, D., Belanger, D., Gosselin, P., Brazeau, J., Furgal, C. and Dery, S., 2005: *Climate change, Drinking Water, and Human Health in Nunavik: Adaptation Strategies*. Final Report submitted to the Canadian Climate Change Action Fund, Natural Resources Canada. CHUL Research Institute, Quebec, 111 pp.
- Martin, E. and P. Etchevers, 2005: Impact of climatic change on snow cover and snow hydrology in the French Alps. *Global Change and Mountain Regions (A State of Knowledge Overview)*, U.M. Huber, H. Bugmann, and M.A. Reasoner, Eds., Springer, New York, 235–242.
- Mata, L.J., M. Campos, E. Basso, R. Compagnucci, P. Fearnside, G. Magri, J. Marengo, A.R. Moreno, A. Suaez, S. Solman, A. Villamizar and L. Villers, 2001: Latin America. *Climate Change 2001, Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Third Assessment Report of the Intergovernmental Panel on Climate Change*, J. J. McCarthy, O. Canziani, N. Leary, D. Dokken and K. White, Eds., Cambridge University Press, Cambridge, 691–734.
- Maya, C., N. Beltran, B. Jimenez and P. Bonilla, 2003: Evaluation of the UV disinfection process in bacteria and amphizoic amoebae inactivation. *Water Science and Technology*, **3**(4), 285–291.
- Mazhitova, G., N. Karstkarel, N. Oberman, V. Romanovsky and P. Kuhty, 2004: Permafrost and infrastructure in the Usa Basin (Northern European Russia): possible impacts of global warming. *Ambio*, **3**, 289–294.
- McBean, G. and Co-authors, 2005: Arctic Climate: past and present. *Arctic Climate Impacts Assessment (ACIA)*, C. Symon, L. Arris and B. Heal, Eds., Cambridge University Press, Cambridge, 21–60.
- McCabe, G.J., M. Palecki and J.L. Betancourt, 2004: Pacific and Atlantic Ocean influences on multi-decadal drought frequency in the United States. *P. Natl. Acad. Sci. USA*, **101**, 4136–4141.
- McClelland, J.W., R.M. Holmes and B.J. Peterson, 2004: Increasing river discharge in the Eurasian Arctic: consideration of dams, permafrost thaw, and fires as potential agents of change. *J. Geophys. Res.-Atmos.*, **109**, D18102, doi:10.1029/2004JD004583.
- McKerchar, A.I. and R.D. Henderson, 2003: Shifts in flood and low-flow regimes in New Zealand due to inter-decadal climate variations. *Hydrol. Sci. J.*, **48**(4), 637–654.
- McMichael, A. and Co-authors, Eds., 2003: *Climate Change and Human Health: Risks and Responses*. WHO, Geneva, 322 pp.
- McPeak, J.G. and C.B. Barrett, 2001: Differential risk exposure and stochastic poverty traps among East African pastoralists. *Am. J. Agr. Econ.*, **83**, 674–679.
- MDBC, 2006: *Basin Statistics*. Murray Darling Basin Commission. http://www.mdbc.gov.au/about/basin_statistics.
- Meehl, G.A. and C. Tebaldi, 2004: More intense, more frequent, and longer lasting heat waves in the 21st century. *Science*, **305**, 994–997.
- Meher-Homji, V.M., 1992: Probable impact of deforestation on hydrological process. *Tropical Forests and Climate*, N. Myers, Ed., Springer, Berlin, 163–174.
- Melbourne Water, 2006: Eastern Treatment plant: treating sewage from Melbourne's south-eastern and eastern suburbs. http://www.melbournewater.com.au/content/sewage/eastern_treatment_plant/eastern_treatment_plant.asp?bhcp=1.
- Melnikov B.V. and A. L. Revson, 2003: Remote sensing of northern regions of West Siberia. *Cryosphere of Earth*, **4**, 37–48 (in Russian).
- Mendelsohn, R., M. Morrison, M. Schlesinger and N. Andronova,

- 2000a: Country-specific market impacts from climate change, *Climatic Change*, **45**, 553–569.
- Mendelsohn, R., A. Dinar and A. Dalfelt, 2000b: *Climate change impacts on African agriculture*. Paper prepared for the World Bank, Washington, DC, 25 pp
- Menzel, A., G. Jakobi, R. Ahas, H. Scheifinger and N. Estrella, 2003: Variations of the climatological growing season (1951–2000) in Germany compared with other countries. *Int. J. Climatol.*, **23**, 793–812.
- Menzel, L. and G. Bürger., 2002: Climate change scenarios and runoff response in the Mulde catchment (Southern Elbe, Germany). *J. Hydrol.*, **267**(1–2), 53–64.
- Mercier, F., A. Cazenave and C. Maheu, 2002: Interannual lake level fluctuations (1993–1999) in Africa from Topex/Poseidon: connections with ocean-atmosphere interactions over the Indian Ocean, *Global Planet. Change*, **32**, 141–163.
- Metz, B., O. Davidson, H. de Coninck, M. Loos and L. Meyer, Eds., 2005: *Carbon Dioxide Capture and Storage*. Cambridge University Press, Cambridge, 431 pp.
- Middelkoop, H. and J.C.J. Kwadijk, 2001: Towards an integrated assessment of the implications of global change for water management: the Rhine experience. *Phys Chem Earth, Part B Hydrology, Oceans and Atmosphere*, **26**(7–8), 553–560.
- Middelkoop, H., K. Daamen, D. Gellens, W. Grabs, J.C.J. Kwadijk, H. Lang, B.W.A.H. Parmet, B. Schädler, J. Schulla and K. Wilke, 2001: Impact of climate change on hydrological regimes and water resources management in the Rhine basin. *Climatic Change*, **49**, 105–128.
- Miettinen, I., O. Zacheus, C. von Bonsdorff and T. Vartiainen, 2001: Waterborne epidemics in Finland in 1998–1999. *Water Sci. Technol.*, **43**, 67–71.
- Miles, E.L., A.K. Snover, A. Hamlet, B. Callahan and D. Fluharty, 2000: Pacific Northwest Regional Assessment: the impacts of climate variability and climate change on the water resources of the Columbia River Basin. *J. Amer. Water Resour. Assoc.*, **36**, 399–420.
- Mileti, D., 1999: *Disasters by Design: A Reassessment of Natural Hazards in the United States*. National Academy Press, Washington, DC, 376 pp.
- Millennium Ecosystem Assessment, 2005a: *Ecosystems and Human Well-being: Volume 2 – Scenarios*. Island Press, Washington, DC, 515 pp.
- Millennium Ecosystem Assessment, 2005b: *Ecosystems and Human Well-being: Synthesis*. Island Press, Washington, DC, 155 pp.
- Miller, K.A. and D. Yates, 2006: *Climate Change and Water Resources: A Primer for Municipal Water Providers*. AWWA Research Foundation, Denver, CO, 83 pp.
- Miller, K.A., S.L. Rhodes and L.J. MacDonnell, 1997: Water allocation in a changing climate: institutions and adaptation. *Climatic Change*, **35**, 157–177.
- Miller, M.G. and A. Veltman, 2004: Proposed Canterbury Natural Resources Plan for river and groundwater allocation policies and the implications for irrigation dependent farming in Canterbury. *Proc. New Zealand Grassland Association*, **66**, 11–23.
- Mills, E., 2005: Insurance in a climate of change. *Science*, **309**, 1040–1044.
- Mills, E. and E. Lecomte, 2006: *From Risk to Opportunity: How Insurers Can Proactively and Profitably Manage Climate Change*. Ceres, Boston, MA, 42 pp.
- Mills, P.F., 1994: The agricultural potential of northwestern Canada and Alaska and the impact of climatic change. *Arctic*, **47**(2), 115–123.
- Milly, P.C.D., R.T. Wetherald, K.A. Dunne and T.L. Delworth, 2002: Increasing risk of great floods in a changing climate. *Nature*, **415**, 514–517.
- 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**(7066), 347–350.
- Mimikou, M., E. Blatas, E. Varanaou and K. Pantazis, 2000: Regional impacts of climate change on water resources quantity and quality indicators. *J. Hydrol.*, **234**, 95–109.
- Min, S.K., W.T. Kwon, E.H. Park and Y. Choi, 2003: Spatial and temporal comparisons of droughts over Korea with East Asia. *Int. J. Climatol.*, **23**, 223–233.
- Ministry for the Environment, 2004: *Climate Effects and Impacts Assessment: a Guidance Manual for Local Government in New Zealand*. Prepared by David Wratt, Brett Mullan and Jim Salinger (NIWA), Sylvia Allen and Tania Morgan (MWH New Zealand Ltd.) and Gavun Kenny (Earthwise Consulting). Ministry for the Environment Report ME 513, Wellington, 153 pp.
- Mirza, M.M.Q., 2002: Global warming and changes in the probability of occurrence of floods in Bangladesh and implications. *Global Environ. Chang.*, **12**, 127–138.
- Mirza, M.M.Q., 2003: Three recent extreme floods in Bangladesh: a hydro-meteorological analysis. *Nat. Hazards*, **28**, 35–64.
- Mirza, M.M.Q., 2004: *Climate Change and the Canadian Energy Sector: Report on Vulnerability and Adaptation*. Adaptation and Impacts Research Group, Atmospheric Climate Science Directorate, Meteorological Service of Canada Downsview, Ontario, 52 pp.
- Mirza, M.M.Q., R.A. Warrick and N.J. Erickson, 2003: The implications of climate change on floods of the Ganges, Brahmaputra and Meghna Rivers in Bangladesh. *Climatic Change*, **57**, 287–318.
- Mitchell, T.D. and P.D. Jones, 2005: An improved method of constructing a database of monthly climate observations and associated high-resolution grids. *Int. J. Climatol.*, **25**, 693–712.
- Mitchell, W., J. Chittleborough, B. Ronai and G.W. Lennon, 2001: Sea level rise in Australia and the Pacific. *Proc. Science Component. Linking Science and Policy*. Pacific Islands Conference on Climate Change, Climate Variability and Sea Level Rise. 3–7 April 2000, Rarotonga, Cook Islands, National Tidal Facility, The Flinders University of South Australia, Adelaide, 47–58.
- Moench, M., A. Dixit, S. Janakarajan, M.S. Rathore and S. Mudrakartha, 2003: *The Fluid Mosaic: Water Governance in the Context of Variability, Uncertainty and Change – A Synthesis Paper*. Nepal Water Conservation Foundation, Kathmandu, 71 pp.
- Mohseni, O., H.G. Stefan and J.G. Eaton, 2003: Global warming and potential changes in fish habitat in U.S. streams. *Climatic Change*, **59**, 389–409.
- Mölg, T., D.R. Hardy, N. Cullen and G. Kaser, 2005: Tropical glaciers in the context of climate change and society: focus on Kilimanjaro (East Africa). *Contribution to Mountain Glaciers and Society Workshop*. California University Press, Wengen, 28 pp.
- Monson, R.K., D.L. Lipson, S.P. Burns, A.A. Turnipseed, A.C. Delany, M.W. Williams and S.K. Schmidt, 2006: Winter forest soil respiration controlled by climate and microbial community composition. *Nature*, **439**(7077), 711–714.
- Monteny, G.-J., A. Bannink and D. Chadwick, 2006: Greenhouse gas abatement strategies for animal husbandry. *Agri. Ecosys. Environ.*, **112**, 163–170.
- Mool, P.K., D. Wangda and S.R. Bajracharya, 2001: *Inventory of Glaciers, Glacial Lakes and Glacial Lake Outburst Floods: Monitoring and Early Warning Systems in the Hindu Kush-Himalayan Region: Bhutan*. ICIMOD, Kathmandu, 227 pp.
- Moonen, A.C., L. Ercoli, M. Mariotti and A. Masoni, 2002: Climate change in Italy indicated by agrometeorological indices over 122 years. *Agr. Forest Meteorol.*, **111**, 13–27.
- Mooney, H., A. Cropper and W. Reid, 2005: Confronting the human dilemma. *Nature*, **434**, 561–562.
- Moore, M.V., M.L. Pace, J.R. Mather, P.S. Murdoch, R.W. Howarth, C.L. Folt, C.Y. Chen, H.F. Hemond, P.A. Flebbe and C.T. Driscoll,

- 1997: Potential effects of climate change on freshwater ecosystems of the New England/Mid-Atlantic region. *Hydrol. Process.*, **11**, 925–947.
- Morris, J.D. and L.A.J. Thomson, 1983: The role of trees in dryland salinity control. *Proc. Roy. Soc. Victoria*, **95**, 123–131.
- Morton, J., 2006: Pastoralist coping strategies and emergency livestock market intervention. *Livestock Marketing in Eastern Africa: Research and Policy Challenges*, J.G. McPeak and P.D. Little, Eds., ITDG Publications, Rugby, 227–246.
- Mosier, A.R., A.D. Halvorson, G.A. Peterson, G.P. Robertson and L. Sherrod, 2005: Measurement of net global warming potential in three agroecosystems. *Nutrient Cycling in Agroecosystems*, **72**, 67–76.
- Moss, B., D. Mckee, D. Atkinson, S.E. Collings, J.W. Eaton, A.B. Gill, I. Harvey, K. Hatton, T. Heyes and D. Wilson, 2003: How important is climate? Effects of warming, nutrient addition and fish on phytoplankton in shallow lake microcosms. *J. Appl. Ecol.*, **40**, 782–792.
- 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., D.J. Canning, D.L. Fluharty, R.C. Francis, J.F. Franklin, A.F. Hamlet, M. Hershman, M. Holmberg, K.N. Gray-Ideker, W.S. Keeton, D.P. Lettenmaier, L.R. Leung, N.J. Mantua, E.L. Miles, B. Noble, H. Parandvash, D.W. Peterson, A.K. Snover and S.R. Willard, 1999: *Impacts of Climate Variability and Change, Pacific Northwest*, 110 pp. <http://www.usgcrp.gov/usgcrp/Library/nationalassessment/pnw.pdf>.
- 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. *Climatic Change*, **61**, 45–88.
- Moulton, R. and D. Cuthbert, 2000: Cumulative impacts/risk assessment of water removal or loss from the Great Lakes–St. Lawrence River system. *Can. Water Resour. J.*, **25**, 181–208.
- Mountain Agenda, 1997: *Mountains of the World: Challenges of the 21st Century*. Mountain Agenda, Bern, 36 pp.
- MRAE (Ministry of Rural Affairs and the Environment, Malta), 2004: *The First Communication of Malta to the United Nations Framework Convention on Climate Change*, Ministry for Rural Affairs and the Environment, Malta.
- MRC, 2003: *State of the Basin Report: 2003*. Mekong River Commission, Phnom Penh, 300 pp.
- Mueller, D.R., W.F. Vincent and M.O. Jeffries, 2003: Break-up of the largest Arctic ice shelf and associated loss of an epishelf lake. *Geophys. Res. Lett.*, **30**, 2031, doi:10.1029/2003GL017931.
- Mullan, A.B., A. Porteous, D. Wratt and M. Hollis, 2005: *Changes in Drought Risk with Climate Change*. NIWA Report WLG2005. <http://www.mfe.govt.nz/publications/climate/drought-risk-may05/drought-risk-climate-change-may05.pdf>.
- Munich Re, 2004: *Annual Review of Natural Catastrophes 2003*. Munich, 8 pp. http://www.munichre.com/app_resources/pdf/ts/geo_risks/topicsgeo_2003_siebert_en.pdf.
- MWD, 2005: *The Family of Southern California Water Agencies. Metropolitan Water District of Southern California*. <http://www.bewaterwise.com/index.html>.
- Myers, N., 1997: The world's forests and their ecosystem services. *Nature's Services: Societal Dependence on Natural Ecosystems*. G.C. Daily, Ed., Island Press, Washington, DC, 215–235.
- Naess, L.O., G. Bang, S. Eriksen and J. Vevatne, 2005: Institutional adaptation to climate change: flood responses at the municipal level in Norway. *Global Environ. Chang.*, **15**, 125–138.
- Nagy, G.J., R.M. Caffera, M. Aparicio, P. Barrenechea, M. Bidegain, J.C. Jiménez, E. Lentini, G. Magrin and Co-authors, 2006: *Understanding the Potential Impact of Climate Change and Variability in Latin America and the Caribbean*. Report prepared for the Stern Review on the Economics of Climate Change, 34 pp. <http://www.sternreview.org.uk>.
- Nakićenović, N. and R. Swart, Eds., 2000: *Special Report on Emissions Scenarios*. Cambridge University Press, Cambridge, 599 pp.
- Namjou, P. and Co-authors, 2006: The integrated catchment study of Auckland City (New Zealand): long-term groundwater behaviour and assessment. *Proc. World Environmental and Water Resources Congress 2006*, R. Graham, Ed., May 21–25, 2006, Omaha, Nebraska, doi:10.1061/40856(200)311.
- NAST, 2000: *Climate Change Impacts in the United States, Overview*. Report for the U.S. Global Change Research Program. National Assessment Synthesis Team Members (NAST), 154 pp.
- Natsagdorj, L., P. Gomboluudev and P. Batima, 2005: Climate change in Mongolia. *Climate Change and its Projections*, P. Batima and B. Myagmarjav, Eds., Admon Publishing, Ulaanbaatar, 39–84.
- NC-Colombia, 2001: *1st National Communication to the UNFCCC*, 267 pp. http://unfccc.int/national_reports/non-annex_i_natcom/items/2979.php.
- NC-Ecuador, 2000: *1st National Communication to the UNFCCC*, 128 pp. http://unfccc.int/national_reports/non-annex_i_natcom/items/2979.php.
- NC-Nicaragua, 2001: *Impacto del Cambio Climático en Nicaragua*. Primera Comunicación Nacional sobre Cambio Climático, PNUD/MARENA, 127 pp.
- NC-Perú, 2001: *1st National Communication to the UNFCCC*, 155 pp. <http://unfccc.int/resource/docs/natc/pernc1.pdf>.
- Nchito, M., P. Kelly, S. Sianongo, N.P. Luo, R. Feldman, M. Farthing and K.S. Baboo, 1998: *Cryptosporidiosis* in urban Zambian children: an analysis of risk factors. *Am. J. Trop. Med. Hyg.*, **59**, 435–437.
- Ndikumana, J., J. Stuth, R. Kamidi, S. Ossiya, R. Marambii and P. Hamlet, 2000: *Coping Mechanisms and their Efficacy in Disaster-prone Pastoral Systems of the Greater Horn of Africa: Effects of the 1995–97 Drought and the 1997–98 El Niño Rains and the Responses of Pastoralists and Livestock*. ILRI Project Report. A-AARNET (ASARECA-Animal Agriculture Research Network), Nairobi, Kenya, GL-CRSPLEWS (Global Livestock-Collaborative Research Support Program Livestock Early Warning System), College Station, Texas, USA, and ILRI (International Livestock Research Institute), Nairobi, 124 pp.
- NEAB (National Environment Advisory Board, St Vincent and the Grenadines), 2000: *Initial National Communication on Climate Change*, National Environment Advisory Board and Ministry of Health and the Environment, 74 pp.
- Nearing, M.A., F.F. Pruski and M.R. O'Neal, 2004: Expected climate change impacts on soil erosion rates: a review. *J. Soil Water Conserv.*, **59**, 43–50.
- NEB, 2006: *Canada's Oil Sands: Opportunities and Challenges to 2015: An Update*. National Energy Board, Calgary, Alberta, 85 pp.
- Neff, R., H. Chang, C. Knight, R. Najjar, B. Yarnal and H. Walker, 2000: Impact of climate variation and change on Mid-Atlantic Region hydrology and water resources. *Climate Res.*, **14**, 207–218.
- Nelson, F.E., 2003: (Un)frozen in time. *Science*, **299**, 1673–1675.
- New, M., 2002: Climate change and water resources in the southwestern Cape, South Africa. *S. Afri. J. Sci.*, **96**, 369–373.
- 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**(5), 250–262.
- Nicholson, S., 2005: On the question of the “recovery” of the rains in

- the West African Sahel. *J. Arid Environ.*, **63**, 615–641.
- Nicholson, S.E. and J.C. Selato, 2000: The influence of La Niña on African rainfall. *Int. J. Climatol.*, **20**, 1761–1776.
- Nicholson, S.E., B. Some and B. Kone, 2000: An analysis of recent rainfall conditions in West Africa, including the rainy seasons of the 1997 El Niño and the 1998 La Niña years. *J. Clim.*, **13**, 2628–2640.
- Nilsson, C., C.A. Reidy, M. Dynesius and C. Revenga, 2005: Fragmentation and flow regulation of the world's large river systems. *Science*, **308**, 405–408.
- NLWRA, 2001: *Australian Water Resources Assessment 2000*. National Land and Water Resources Audit, Land and Water Australia.
- NOAA, 2005: *Hazards/Climate Extremes*. National Climatic Data Center, U.S. Department of Commerce, <http://www.ncdc.noaa.gov/oa/climate/research/2005/aug/hazards.html>. Flooding.
- Noone, D. and I. Simmonds, 2002: Annular variations in moisture transport mechanisms and the abundance of $\delta^{18}\text{O}$ in Antarctic snow. *J. Geophys. Res.*, **107**, 4742, doi:10.1029/2002JD002262.
- Norrant, C. and A. Douguédroit, 2006: Monthly and daily precipitation trends in the Mediterranean. *Theor. Appl. Climatol.*, **83**, 89–106.
- Nurse, L. and Co-authors, 2001: Small Island States. *Climate Change 2001: Impacts, Adaptation, and Vulnerability. Contribution 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, 843–876.
- Nuttall, M., F. Berkes, B. Forbes, G. Kofinas, T. Vlassova and G. Wenzel, 2005: Hunting, herding, fishing and gathering: indigenous peoples and renewable resource use in the Arctic. *Arctic Climate Impacts Assessment, ACIA*, C. Symon, L. Arris and B. Heal, Eds., Cambridge University Press, Cambridge, 649–690.
- 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.
- Oba, G., 2001: The importance of pastoralists' indigenous coping strategies for planning drought management in the arid zone of Kenya. *Nomadic Peoples*, **5**, 89–119.
- OECD, 2003: *Development and climate change in Nepal: focus on water resources and hydropower*. COM/ENV/EPOC/DCD/DAC(2003)1/FINAL, Organisation for Economic Co-operation and Development, Paris, 64 pp.
- Oenema, O., N. Wrage, G.L. Velthof, J.W. van Groenigen, J. Dolfing and P.J. Kuikman, 2005: Trends in global nitrous oxide emissions from animal production systems. *Nutrient Cycling in Agroecosystems*, **72**, 51–65.
- Ogle, S.M., F.J. Breidt and K. Paustian, 2005: Agricultural management impacts on soil organic carbon storage under moist and dry climatic conditions of temperate and tropical regions. *Biogeochem.*, **72**, 87–121.
- Oki, T. and S. Kanae, 2006: Global hydrological cycles and world water resources. *Science*, **313**, 1068–1072.
- Oki, T., Y. Agata, S. Kanae, T. Saruhashi and K. Musiaka, 2003: Global water resources assessment under climatic change in 2050 using TRIP. *Water Resources: Systems Water Availability and Global Change*, S.W. Franks, G. Böschl, M. Kumagai, K. Musiaka and D. Rosbjerg, Eds., IAHS Publication, 124–133.
- Olesen, J.E. and M. Bindi, 2002: Consequences of climate change for European agricultural productivity, land use and policy. *European J. Agronomy*, **16**, 239–262.
- Olesen, J.E., T.R. Carter, C.H. Díaz-Ambrona, S. Fronzek, T. Heidmann, T. Hickler, T. Holt, M.I. Minguéz, P. Morales, J. Palutikov, M. Quemada, M. Ruiz-Ramos, G. Rubæk, F. Sau, B. Smith, B. and M. Sykes, 2006: Uncertainties in projected impacts of climate change on European agriculture and terrestrial ecosystems based on scenarios from regional climate models. *Climatic Change*, **81**(Suppl. 1), doi: 10.1007/s10584-006-9216-1.
- Olsen, J.R., 2006: Climate change and floodplain management in the United States, *Climatic Change*, **76**, 407–426.
- Oltechev, A., J. Cermak, J. Gurtz, A. Tishenko, G. Kiely, N. Nadezhdina, M. Zappa, N. Lebedeva, T. Vitvar, J.D. Albertson, F. Tatarinov, D. Tishenko, V. Nadezhdin, B. Kozlov, A. Ibrom, N. Vygodskaya and G. Gravenhorst 2002: The response of the water fluxes of the boreal forest region at the Volga source area to climatic and land-use changes. *Phys. Chem. Earth, Parts A/B/C*, **27**, 675–690.
- Opopol, N., R. Corobov, A. Nicolenco and V. Pantya, 2003: Climate change and potential impacts of its extreme manifestations on health. *Curier Medical*, **5**, 6–9.
- Orlove, B.S., J.C.H. Chiang and M.A. Cane, 2000: Forecasting Andean rainfall and crop yield from the influence of El Niño on Pleiades visibility. *Nature*, **403**, 68–71.
- Osman-Elasha, B., N. Goutbi, E. Spanger-Siegfried, B. Dougherty, A. Hanafi, S. Zakieldein, A. Sanjak, H.A. Atti and H.M. Elhassan, 2006: *Adaptation Strategies to Increase Human Resilience Against Climate Variability and Change: Lessons from the Arid Regions of Sudan*. AIACC Working Paper No. 42, Assessment of Impacts and Adaptation to Climate Change in Multiple Regions and Sectors Programme, 42 pp.
- Osterkamp, T.E., L. Vierek, Y. Shur, M.T. Jorgenson, C. Racine, A. Doyle and R.D. Boone, 2000: Observations of thermokarst and its impact on boreal forests in Alaska, U.S.A. *Arct. Antarct. Alp. Res.*, **32**, 303–315.
- Ouranos, 2004: *Adapting to Climate Change*. Ouranos, Montreal, ON, 91 pp. <http://www.ouranos.ca/cc/climang5.pdf>.
- Paavola, J. and W. Adger, 2002: *Justice and Adaptation to Climate Change*. Tyndall Centre for Climate Change Research, Norwich, 24 pp. http://www.tyndall.ac.uk/publications/working_papers/wp23.pdf.
- Pabón, J.D., 2003: El cambio climático global y su manifestación en Colombia. *Cuadernos Geograf.*, **12**, 111–119.
- Pachauri, R., 2004: Climate change and its implications for development: the role of IPCC assessments. *Inst. Devel. Stud. Bull.*, **35**, 11.
- PAGASA (Philippine Atmospheric, Geophysical and Astronomical Services Administration), 2001: *Documentation and Analysis of Impacts of and Responses to Extreme Climate Events*. Climatology and Agrometeorology Branch Technical Paper No. 2001-2, 55 pp.
- PAHO, 2003: *Status Report on Malaria Programs in the Americas*. 44th Directing Council, 55th Session of the Regional Comité. Pan American Health Organization, Washington, DC.
- Palmer, T.N. and J. Räisänen, 2002: Quantifying the risk of extreme seasonal precipitation events in a changing climate. *Nature*, **415**, 512–514.
- Pan, X.L., W. Deng and D.Y. Zhang, 2003: Classification of hydrological landscapes of typical wetlands in northeast China and their vulnerability to climate change. *Res. Environ. Sci.*, **16**(1), 14–18.
- Pan, Z.T., M. Segal, R.W. Arritt and E.S. Takle, 2004: On the potential change in solar radiation over the US due to increases of atmospheric greenhouse gases. *Renew. Energ.*, **29**, 1923–1928.
- Parkinson, A.J. and J.C. Butler, 2005: Potential impacts of climate change on infectious diseases in the Arctic. *Int. J. Circumpolar Health*, **64**, 478–486.
- Parrotta, J.A., 2002: Restoration and management of degraded tropical forest landscapes. *Modern Trends in Applied Terrestrial Ecology*, R.S. Ambasht and N.K. Ambasht, Eds., Kluwer Academic/Plenum Press, New York, 135–148.
- Parry, M., C.A. Rosenzweig, M. Iglesias, M. Livermore and G. Fisher, 2004: Effects of climate change on global food production under SRES emissions and socioeconomic scenarios. *Global Environ. Chang.*, **14**(1), 53–67.

- Parry, M.L., Ed., 2000: *Assessment of potential effects and adaptations to climate change in Europe: The Europe Acacia Project*. Report of concerted action of the environment programme of the Research Directorate General of the Commission of the European Communities, Jackson Environmental Institute, University of East Anglia, Norwich, 320 pp.
- Parson, E.A., P.W. Mote, A. Hamlet, N. Mantua, A. Snover, W. Keeton, E. Miles, D. Canning and K.G. Ideker, 2001: Potential consequences of climate variability and change for the Pacific Northwest. *Climate Change Impacts on the United States - The Potential Consequences of Climate Variability and Change-Foundation Report*, National Assessment Synthesis Team, Ed., Cambridge University Press, Cambridge, 247-280.
- Parson, E.A., R.W. Corell, E.J. Barron, V. Burkett, A. Janetos, L. Joyce, T.R. Karl, M. MacCracken, J. Melillo, M.G. Morgan, D.S. Schimel and T. Wilbanks, 2003: Understanding climatic impacts, vulnerabilities and adaptation in the United States: building a capacity for assessment. *Climatic Change*, **57**, 9-42.
- Pascual, M., J.A. Ahumada, L.F. Chaves, X. Rodo and M. Bouma, 2006: Malaria resurgence in the East African highlands: temperature trends revisited. *P. Natl. Acad. Sci. USA*, **103**, 5829-5834.
- Pattanayak, S. and R. Kramer, 2000: Worth of watersheds: a producer surplus approach for valuing drought control in eastern Indonesia. *Environment and Development Economics*, **6**, 123-146.
- Patz, J.A., 2002: A human disease indicator for the effects of recent global climate change. *P. Natl. Acad. Sci. USA*, **99**, 12506-12508.
- Patz, J.A., D. Campbell-Lendrum, T. Holloway and J.A.N. Foley, 2005: Impact of regional climate change on human health. *Nature*, **438**, 310-317.
- Paustian, K., B.A. Babcock, J. Hatfield, R. Lal, B.A. McCarl, S. McLaughlin, A. Mosier, C. Rice, G.P. Robertson, N.J. Rosenberg, C. Rosenzweig, W.H. Schlesinger and D. Zilberman, 2004: *Agricultural Mitigation of Greenhouse Gases: Science and Policy Options*. CAST (Council on Agricultural Science and Technology) Report, R141 2004, Ames, Iowa, 120 pp.
- Payne, J.T., A.W. Wood, A.F. Hamlet, R.N. Palmer and D.P. Lettenmaier, 2004: Mitigating the effects of climate change on the water resources of the Columbia River basin. *Climatic Change*, **62**(1-3), 233-256.
- Penalba, O.C. and W.M. Vargas, 2004: Interdecadal and interannual variations of annual and extreme precipitation over central-northeastern Argentina. *Int. J. Climatol.*, **24**, 1565-1580.
- Peters, D.L., T.D. Prowse, A. Pietroniro and R. Leconte, 2006: Establishing the flood hydrology of the Peace-Athabasca Delta, northern Canada. *Hydrol. Process.*, **20**, 4073-4096.
- Petersen, T.C., M.A. Taylor, R. Demeritte, D.L. Duncombe, S. Burton, F. Thompson, A. Porter, M. Mercedes, E. Villegas, R. Semexant Fils, A. Klein Tank, A. Martis, R. Warner, A. Joyette, W. Mills, L. Alexander and B. Gleason, 2002: Recent changes in climate extremes in the Caribbean region. *J. Geophys. Res.*, **107** D21, 4601, doi:10.1029/2002JD002251.
- Peterson, A.T. and J. Shaw, 2003: *Lutzomyia* vectors for cutaneous leishmaniasis in southern Brazil: ecological niche models, predicted geographic distributions, and climate change effects. *Int. J. Parasitol.*, **33**, 919-931.
- Peterson, A.T., C. Martínez-Campos, Y. Nakazawa and E. Martínez-Meyer, 2005: Time-specific ecological niche modeling predicts spatial dynamics of vector insects and human dengue cases. *T. Roy. Soc. Trop. Med. H.*, **99**, 647-655.
- Peterson, B.J., R.M. Holmes, J.W. McClelland, C.J. Vorosmarty, R.B. Lammers, A.I. Shiklomanov, I.A. Shiklomanov and S. Rahmstorf, 2002: Increasing river discharge to the Arctic Ocean. *Science*, **298**, 2172-2173.
- Peterson, T.C. and R.S. Vose, 1997: An overview of the Global Historical Climatology Network temperature database. *Bull. Am. Meteorol. Soc.*, **78**, 2837-2848.
- Peterson, T.C., V.S. Golubev and P.Y. Groisman, 1995: Evaporation losing its strength. *Nature*, **377**, 687-688.
- Petheram, C., G. Walker, R. Grayson, T. Thierfelder and L. Zhang, 2001: Towards a framework for predicting impacts of land-use on recharge. *Aust. J. Soil Res.*, **40**, 397-417.
- Pielke, R.A., Jr and M.W. Downton, 2000: Precipitation and damaging floods: trends in the United States, 1932-97. *J. Climate*, **13**, 3625-3637.
- Pienitz, R., M.S.V. Douglas and J.P. Smol, 2004: *Long-term Environmental Change in Arctic and Antarctic Lakes*. Springer Verlag, Berlin, 562 pp.
- Pilon-Smits, E.A.H., M.J. Ebskamp, M. Ebskamp, M. Paul, M. Jeuken, P. Weisbeek and S. Smeekens, 1995: Improved performance of transgenic fructan-accumulating tobacco under drought stress. *Plant Physiol.*, **107**, 125-130.
- Pittock, B., 2003: *Climate Change: An Australian Guide to the Science and Potential Impacts*. Australian Greenhouse Office, Canberra, 239 pp.
- Polemio, M. and D. Casarano, 2004: *Rainfall and Drought in Southern Italy (1821-2001)*. UNESCO/IAHS/IWHA, Pub. 286.
- Polsky, C. and W.E. Easterling, 2001: Adaptation to climate variability and change in the US Great Plains: a multi-scale analysis of Ricardian climate sensitivities. *Agr. Ecosyst. Environ.*, **85**, 133-144.
- Porter, J.R. and M.A. Semenov, 2005: Crop responses to climatic variation. *Philos. Trans. R. Soc. B: Biological Sciences*, **360**, 2021-2035.
- Pounds, J.A. and R. Puschendorf, 2004: Ecology: clouded futures. *Nature*, **427**, 107-109.
- Pounds, J.A., M. R. Bustamante, L.A. Coloma, J.A. Consuegra, M.P.L. Fogden, P.N. Foster, E. La Marca, K.L. Masters, A. Merino-Viteri, R. Puschendorf, S.R. Ron, G.A. Sanchez-Azofeifa, C.J. Still and B. E. Young, 2006: Widespread amphibian extinctions from epidemic disease driven by global warming. *Nature*, **439**(7073), 161-167.
- Premier of Victoria, 2006: Ballarat's future water supplies secured by major Bracks government action plan. Media release, 17 October 2006. http://www.premier.vic.gov.au/newsroom/news_item.asp?id=978.
- Protopapas, L., S. Katchamart and A. Platonova, 2000: Weather effects on daily water use in New York City. *J. Hydrol. Eng.*, **5**, 332-338.
- Prowse, T.D. and S. Beltaos, 2002: Climatic control of river-ice hydrology: a review. *Hydrol. Process.*, **16**, 805-822.
- Prowse, T.D., F.J. Wrona and G. Power, 2004: *Threats to Water Availability in Canada*. Environment Canada, NWRI Scientific Assessment Report No. 3, 9-18.
- Prowse, T.D. and Co-authors, 2006: Historical changes in Arctic freshwater ecosystems. *Ambio*, **35**(7), 339-346.
- Prudhomme, C. and H. Davies, 2006: Comparison of different sources of uncertainty in climate change impact studies in Great Britain. Hydrological Processes: Special Issue of International Workshop "Climatic and Anthropogenic Impacts on Water Resources Variability". *Technical Document in Hydrology No. 80 / Document technique en hydrologie No. 80*, UNESCO, Paris / UMR 5569, HydroSciences Montpellier, 2007, 183-190. <http://unesdoc.unesco.org/images/0015/001502/150251M.pdf>.
- Prudhomme, C., D. Jakob and C. Svensson, 2003: Uncertainty and climate change impact on the flood regime of small UK catchments. *J. Hydrol.*, **277**, 1-23.
- Psenner, R. and R. Schmidt, 1992: Climate-driven pH control of remote Alpine lakes and effects of acid deposition. *Nature*, **356**, 781-783.
- Pulwarty, R., K. Jacobs and R. Dole, 2005: The hardest working river: drought and critical water problems on the Colorado. *Drought and Water Crises: Science, Technology and Management*, D. Wilhite Ed., Taylor and Francis Press, Boca Raton, FL, 249-285.

- Pulwarty, R.S. and T.S. Melis, 2001: Climate extremes and adaptive management on the Colorado River: lessons from the 1997–1998 ENSO event. *J. Environ. Manage.*, **63**, 307–324.
- Qian, T. and Co-authors, 2006a: Simulation of global land surface conditions from 1948–2004. Part I: Forcing data and evaluations. *J. Hydrometeorol.*, **7**, 953–975.
- Qian, Y. and Co-authors, 2006b: More frequent cloud-free sky and less surface solar radiation in China from 1955 to 2000. *Geophys. Res. Lett.*, **33**, L01812, doi:10.1029/2005GL024586.
- Qin, D.H., 2002: *Assessment of Environment Change in Western China, 2nd Volume, Prediction of Environment Change in Western China*. Science Press, Beijing, 64, 73, 115, 132, 145–154, 160–161.
- Quadrelli, R. and J.M. Wallace, 2004: A simplified linear framework for interpreting patterns of Northern Hemisphere wintertime climate variability. *J. Climate*, **17**, 3728–3744.
- Quayle, W.C., L.S. Peck, H. Pet, J.C. Ellis-Evans and P.R. Harrigan, 2002: Extreme responses to climate change in Antarctic lakes. *Science*, **295**(5555), 645–645.
- Quayle, W.C., P. Convey, L.S. Peck, J.C. Ellis-Evans, H.G. Butler and H.J. Peat, 2003: Ecological responses of maritime Antarctic lakes to regional climate change. *Antarctic Peninsula Climate Variability: Historical and Palaeoenvironmental Perspectives*. E. Domack, A. Leventer, A. Burnett, R. Bindschadler, P. Convey and M. Kirby, Eds., American Geophysical Union, Washington, DC, 159–170.
- Queensland Government, 2005: *Queensland Water Plan 2005-2010*. Queensland Government, 27 pp. http://www.nrw.qld.gov.au/water/pdf/qld_water_plan_05_10.pdf.
- Ragab, R. and C. Prudhomme, 2002: Climate change and water resources management in arid and semi-arid regions: prospective and challenges for the 21st century. *Biosys. Engineering*, **81**, 3–34.
- Räsänen, J., Hansson, U., Ullerstieg, A., Döschner, R., Graham, L.P., Jones, C., Meier, H.E.M., Samuelson, P. and Willén, U., 2004: European climate in the late twenty-first century: regional simulations with two driving global models and two forcing scenarios. *Clim. Dyn.*, **22**, 13–31.
- Ramírez, E., B. Francou, P. Ribstein, M. Desclotres, R. Guérin, J. Mendoza, R. Gallaire, B. Pouyaud and E. Jordan, 2001: Small glaciers disappearing in the tropical Andes: a case study in Bolivia: the Chacaltaya glacier, 16°S. *J. Glaciol.*, **47**, 187–194.
- Rawlins, S. C., A. Chen, M. Ivey, D. Amarakoon and K. Polson, 2005: The impact of climate change/variability events on the occurrence of dengue fever in parts of the Caribbean: a retrospective study for the period 1980–2002. *West Indian Med. J. Suppl.*, **53**(2), 54.
- Reay, D.S., K.A. Smith and A.C. Edwards, 2003: Nitrous oxide emission from agricultural drainage waters. *Global Chang. Biol.*, **9**, 195–203.
- Reilly, J. and Co-authors, 2003: U.S. agriculture and climate change: new results. *Climatic Change*, **57**, 43–69.
- Reilly, J.M., Ed., 2002: *Agriculture: The Potential Consequences of Climate Variability and Change*. Cambridge University Press, Cambridge, 136 pp.
- Reist, J.D. and Co-authors, 2006a: General effects of climate change on arctic fishes and fish populations. *Ambio*, **35**(7), 370–380.
- Reist, J.D. and Co-authors, 2006b: An overview of effects of climate change on selected arctic freshwater and anadromous fishes. *Ambio*, **35**(7), 381–387.
- Reist, J.D. and Co-authors, 2006c: Effects of climate change and UV radiation on fisheries for arctic freshwater and anadromous species. *Ambio*, **35**(7), 402–410.
- Republic of Vanuatu, 1999: *Vanuatu National Communication to the Conference of the Parties to the United Nations Framework Convention on Climate Change*, 55 pp.
- Resck, D.V.S., C.A. Vasconcellos, L. Vilela and M.C.M. Macedo, 2000: Impact of conversion of Brazilian cerrados to cropland and pastureland on soil carbon pool and dynamics. *Global Climate Change and Tropical Ecosystems*, R. Lal, J.M. Kimble and B.A. Stewart, Eds., CRC-Lewis Publishers, Boca Raton, FL, 169–195.
- Reynard, N., S. Crooks, R. Wilby and A. Kay, 2004: Climate Change and Flood Frequency in the UK. *Proc. 39th DEFRA Flood and Coastal Management Conference*, York. Defra, London, 11.1.1–11.1.12.
- Richardson, D., 2002: Flood risk: the impact of climate change. *Proc. Inst. Civil Engineers-Civil Engineering*, **150**, 22–24.
- Riebsame, W.E., K.M. Strzepek, J.L. Wescoat, Jr, R. Perrit, G.L. Graile, J. Jacobs, R. Leichenko, C. Magadza, H. Phien, B.J. Urbiztondo, P. Restrepo, W.R. Rose, M. Saleh, L.H. Ti, C. Tucci and D. Yates, 1995: Complex river basins. *As Climate Changes: International Impacts and Implications*, K.M. Strzepek and J.B. Smith, Eds., Cambridge University Press, Cambridge, 57–91.
- Rivera, A., G. Casassa, R. Thomas, E. Rignot, R. Zamora, D. Antúnez, C. Acuña and F. Ordenes, 2005: Glacier wastage on Southern Adelaide Island and its impact on snow runway operations. *Ann. Glaciol.*, **41**, 57–62.
- Robeson, S.M., 2002: Increasing growing-season length in Illinois during the 20th century. *Climatic Change*, **52**, 219–238.
- Robock, A. and Co-authors, 2000: The global soil moisture data bank. *Bull. Amer. Meteor. Soc.*, **81**, 1281–1299.
- Robock, A. and Co-authors, 2005: Forty five years of observed soil moisture in Ukraine: no summer desiccation (yet). *Geophys. Res. Lett.*, **32**, L03401, doi:10.0129/2004GL021914.
- Rockstrom, J., 2003: Water for food and nature in drought-prone tropics: vapour shift in rain-fed agriculture. *Philos. Trans. Roy. Soc. London - Series B*, **358**, 1997–2009.
- Roderick, M.L. and G.D. Farquhar, 2004: Changes in Australian pan evaporation from 1970 to 2002. *Int. J. Climatol.*, **24**, 1077–1090.
- Roderick, M.L. and G.D. Farquhar, 2005: Changes in New Zealand pan evaporation since the 1970s. *Int. J. Climatol.*, **25**, 2031–2039.
- Rogora, M., R. Mosello and S. Arisci, 2003: The effect of climate warming on the hydrochemistry of Alpine lakes. *Water Air Soil Pollut.*, **148**, 347–361.
- Ronchail, J., L. Bourrel, G. Cochonneau, P. Vauchel, L. Phillips, A. Castro, J.L. Guyot and E. Oliveira, 2005: Inundations in the Mamoré Basin (south-western Amazon-Bolivia) and sea-surface temperature in the Pacific and Atlantic Oceans. *J. Hydrol.*, **302**, 223–238.
- Root, T.L. and S.H. Schneider, 2002: Climate change: overview and implications for wildlife. *Wildlife Responses to Climate Change: North American Case Studies*, S.H. Schneider and T.L. Root, Eds., Island Press, Washington, DC, 1–56.
- Root, T.L., J.T. Price, K.R. Hall, S.H. Schneider, C. Rosenzweig and J.A. Pounds, 2003: Fingerprints of global warming on wild animals and plants. *Nature*, **421**(6918), 57–60.
- Rosenberg, N.J., D.J. Epstein, D. Wang, L. Vail, R. Srinivasan and J.G. Arnold, 1999: Possible impacts of global warming on the hydrology of the Ogallala aquifer region. *Climatic Change*, **42**, 677–692.
- Rosenberg, N.J., R.A. Brown, C. Izaurralde and A.M. Thomson, 2003: Integrated assessment of Hadley Centre HadCM2 climate change projections on agricultural productivity and irrigation water supply in the conterminous United States. I. Climate change scenarios and impacts on irrigation water supply simulated with the HUMUS model. *Agri. Forest Meteorol.*, **117**(1–2), 73–96.
- Rosenzweig, C. and F.N. Tubiello, 2007: Adaptation and mitigation strategies in agriculture: an analysis of potential synergies. *Mitigation and Adaptation Strategies for Global Change*, **12**, 855–873.
- Rosenzweig, C., F.N. Tubiello, R. Goldberg, E. Mills and J. Bloomfield, 2002: Increased crop damage in the US from excess precipitation

- under climate change. *Global Environ. Chang.*, **12**, 197–202.
- Ross, M.S., J.F. Meeder, J.P. Sah, P.L. Ruiz and G.J. Telesnicki, 2000: The southeast saline Everglades revisited: 50 years of coastal vegetation change. *J. Vegetation Sci.*, **11**, 101–112.
- Rowell, A. and P.F. Moore, 2000: *Global Review of Forest Fires*. WWF/IUCN, Gland, 66 pp. http://www.iucn.org/themes/fcp/publications/files/global_review_forest_fires.pdf.
- Ruhland, K.M., A. Priesnitz and J.P. Smol, 2003: Paleolimnological evidence from diatoms for recent environmental changes in 50 lakes across Canadian Arctic treeline. *Arct. Antarct. Alp. Res.*, **35**, 110–123.
- Ruosteenoja, K., T.R. Carter, K. Jylhä, and H. Tuomenvirta, 2003: *Future Climate in World Regions: An Intercomparison of Model-Based Projections for the New IPCC Emissions Scenarios*. The Finnish Environment **644**, Finnish Environment Institute, Helsinki, 83 pp.
- 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.
- Saintilan, N. and R.J. Williams 1999: Mangrove transgression into saltmarsh environments in south east Australia. *Global Ecol. Biogeogr.*, **8**(2), 117–124.
- Sala, O.A., F.S. Chapin III, J.J. Armesto, E. Berlow, J. Bloomfield, R. Dirzo, E. Huber-Sanwald, L.F. Huenneke, R.B. Jackson, A. Kinzig, R. Leemans, D.M. Lodge, H.A. Mooney, M. Oesterheld, N.L. Poff, M.T. Sykes, B.H. Walker, M. Walker and D.H. Wall, 2000: Global biodiversity scenarios for the year 2100. *Science*, **287**, 1770–1774.
- Salewicz, A., 1995: Impact of climate change on the operation of Lake Kariba hydropower scheme on the Zambezi River. *Water Resources Management in the Face of Climatic and Hydrologic Uncertainties*, Z. Kaczmarek, Ed., Kluwer Academic Publishers, Dordrecht, 395 pp.
- Salinger, M. J., 2001: Climate variation in New Zealand and the Southwest Pacific. *The Physical Environment. A New Zealand Perspective*, A. Sturman and R. Spronken-Smith, Eds., Oxford University Press, Victoria, 35 pp.
- Sanders, C. and M. Phillipson, 2003: UK adaptation strategy and technical measures: the impacts of climate change on buildings. *Build. Res. Inf.*, **31**(3–4), 210–221
- Sand-Jensen, K. and N.L. Pedersen, 2005: Broad-scale differences in temperature, organic carbon and oxygen consumption among lowland streams. *Freshw. Biol.*, **50**, 1927–1937.
- Sankaran, M., N.P. Hanan, R.J. Scholes, J. Ratnam, D.J. Augustine, B.S. Cade, J. Gignoux, S.I. Higgins, X. le Roux, F. Ludwig, J. Ardo, F. Banyikwa, A. Bronn, G. Bucini, K.K. Caylor, M.B. Coughenour, A. Diouf, W. Ekaya, C.J. Feral, E.C. February, P.G.H. Frost, P. Hiernaux, H. Hrabar, K.L. Metzger, H.H.T. Prins, S. Ringrose, W. Sea, J. Tews, J. Worden and N. Zambatis, 2005: Determinants of woody cover in African savannas. *Nature*, **438**, 846–849.
- Santos, F.D., K. Forbes and R. Moita, Eds., 2002: *Climate Change in Portugal: Scenarios, Impacts and Adaptation Measures*. SIAM Project Report, Gradiva, Lisbon, 456 pp.
- Sanz, J.J., T.J. Potti, J. Moreno, S. Merion and O. Frias, 2003: Climate change and fitness components of a migratory bird breeding in the Mediterranean region. *Global Change Biol.*, **9**, 461–472.
- Scaife, A., J. Knight, G. Vallis and C.K. Folland, 2005: A stratospheric influence on the winter NAO and North Atlantic surface climate. *Geophys. Res. Lett.*, **32**, L18715, doi: 10.1029/2005GL023226.
- Scavia, D., J.C. Field, D.F. Boesch, R. Buddemeier, D.R. Cayan, V. Burkett, M. Fogarty, M. Harwell, R. Howarth, C. Mason, D.J. Reed, T.C. Royer, A.H. Sallenger and J.G. Titus, 2002: Climate change impacts on U.S. coastal and marine ecosystems. *Estuaries*, **25**, 149–164.
- Schallenberg, M., C.J. Hall and C.W. Burns, 2003: Consequences of climate-induced salinity increases on zooplankton abundance and diversity in coastal lakes. *Marine Ecol. Prog. Ser.*, **251**, 181–189.
- Schär, C., P.L. Vidale, D. Luthi, C. Frei, C. Haberli, M.A. Liniger and C. Appenzeller, 2004: The role of increasing temperature variability in European summer heatwaves. *Nature*, **427**(6972), 332–336.
- Scheffer, M., S. Carpenter, J.A. Foley, C. Folke and B. Walker, 2001: Catastrophic shifts in ecosystems. *Nature*, **413**, 591–596.
- Schiermeier, Q., 2006: Insurers' disaster files suggest climate is culprit. *Nature*, **441**(7094), 674–675.
- Schijven, J.F. and A.M. de Roda Husman, 2005: Effect of climate changes on waterborne disease in the Netherlands. *Water Sci. Technol.*, **51**, 79–87.
- Schlenker, W., W.M. Hanemann and A.C. Fisher, 2005: Will U.S. agriculture really benefit from global warming? Accounting for irrigation in the hedonic approach. *American Economic Review*, **95**, 395–406.
- Schlesinger, M.E. and N. Ramankutty, 1994: An oscillation in the global climate system of period 65–70 years. *Nature*, **367**, 723–726.
- Schlesinger, W.H., 1999: Carbon sequestration in soils. *Science*, **284**, 2095.
- 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× CO₂ scenario. *J. Hydrol.*, **282**(1–4), 145–163.
- Schofield, N.J., 1992: Tree planting for dryland salinity control in Australia. *Agroforestry Sys.*, **20**, 1–23.
- Schreider, S.Y., D.I. Smith and A.J. Jakeman, 2000: Climate change impacts on urban flooding. *Climatic Change*, **47**(1–2), 91–115.
- Schröter D., W. Cramer, R. Leemans, I.C. Prentice, M.B. Araújo, N.W. Arnell, A. Bondeau, H. Bugmann, T.R. Carter, C.A. Gracia, A.C. de la Vega-Leinert, M. Erhard, F. Ewert, M. Glendinning, J.I. House, S. Kankaanpää, R.J.T. Klein, S. Lavorell, M. Linder, M.J. Metzger, J. Meyer, T.D. Mitchell, I. Reginster, M. Rounsevell, S. Sabaté, S. Sith, B. Smith, J. Smith, P. Smith, M.T. Sykes, K. Thonicke, W. Thuiller, G. Tuck, S. Zaehle and B. Zierl, 2005. Ecosystem service supply and vulnerability to global change in Europe. *Science*, **310**, 1333–1337.
- Schulze, E.-D., 1982: Plant life forms and their carbon, water and nutrient relations. *Physiology and Plant Ecology II. Water Relations and Carbon Assimilation*, O.L. Lange, C.B. Osmond and H. Ziegler, Eds., Springer-Verlag, Berlin, 615–676.
- Schuster, C.J., A. Ellis, W.J. Robertson, J.J. Aramini, D.F. Charron and B. Marshall, 2005: Drinking water related infectious disease outbreaks in Canada, 1974–2001. *Can. J. Public Health*, **94**, 254–258.
- Scott, D., 2005: Ski industry adaptation to climate change: hard, soft and policy strategies. *Tourism and Global Environmental Change*, S. Gossling and M. Hall, Eds. Routledge, Oxford. 265–285.
- Scott, D. and B. Jones, 2006: *Climate Change and Seasonality in Canadian Outdoor Recreation and Tourism*, Climate Change Action Fund, University of Waterloo, Faculty of Environmental Studies, Waterloo, ON, 33 pp.
- Scudder, T., 2005: *The Future of Large Dams*. Earthscan, London, 408 pp.
- Semenov, S.M., V.V. Yasukevich and E.S. Gel'ver, 2006: *Identification of Climatogenic Changes*. Publishing Centre, Meteorology and Hydrology, Moscow, 325 pp.
- Senate of Canada, 2003: *Climate change: We are at Risk*. Final Report, Standing Senate Committee on Agriculture and Forestry, Ottawa.
- Senhorst, H.A. and J.J. Zwolsman, 2005: Climate change and effects on water quality: a first impression. *Water Sci. Technol.*, **51**, 53–59.
- Seo, S. N. and R. Mendelsohn, 2006: Climate change impacts on animal husbandry in Africa: a Ricardian analysis. *CEEPA Discussion Paper No.9*. Special Series on Climate Change and Agriculture in Africa. The Centre for Environmental Economics and Policy in Africa, University of Pretoria, Pretoria, 42 pp.

- Serreze, M.C. and Co-authors, 2003: Large-scale hydro-climatology of the terrestrial Arctic drainage system. *J. Geophys. Res.*, **108**(D2), 8160.
- Shabbar, A. and W. Skinner, 2004: Summer drought patterns in Canada and the relationship to global sea surface temperatures. *J. Clim.*, **17**, 2866–2880.
- Shanks, G.D., S.I. Hay, D.I. Stern, K. Biomndo and R.W. Snow, 2002: Meteorologic influences on *Plasmodium falciparum* malaria in the highland tea estates of Kericho, western Kenya. *Emerg. Infect. Dis.*, **8**, 1404-1408.
- Shen, X.T., Z.C. Mao and J.R. Zhu, 2003: *Saltwater Intrusion in the Changjiang Estuary*. China Ocean Press, Beijing, 175 pp (in Chinese).
- Sherbinin, A., A. Schiller and A. Pulsipher, 2007: The vulnerability of global cities to climate hazards. *Environ. Urbaniz.*, **12**(2), 93–102.
- Shiklomanov, I.A., Shiklomanov, A.I., Lammers, R.B., Peterson, B.J. and Vorosmarty, C.J., 2000: The dynamics of river water inflow to the Arctic Ocean. *The Freshwater Budget of the Arctic Ocean*, E.L. Lewis, E.P. Jones, T.D. Prowse and P. Wadhams, Eds., Kluwer Academic Publishers, Dordrecht, 281–296.
- Shrestha, A.B., C.P. Wake, J.E. Dibb and P.A. Mayewski, 2000: Precipitation fluctuations in the Nepal Himalaya and its vicinity and relationship with some large-scale climatological parameters. *Int. J. Climatol.*, **20**, 317–327.
- Shrestha, M.L. and A.B. Shrestha, 2004: *Recent Trends and Potential Climate Change Impacts on Glacier Retreat/Glacier Lakes in Nepal and Potential Adaptation Measures*. ENV/EPOC/GF/SD/RD(2004)6/FINAL, OECD, Paris, 23 pp.
- Shukla, P.R., M. Kapshe and A. Garg, 2005: Development and climate: impacts and adaptation for infrastructure assets in India. *Proc. OECD Global Forum on Sustainable Development: Development and Climate Change*, Organisation for Economic Co-operation and Development, Paris, 38 pp.
- Silander, J., B. Vehviläinen, J. Niemi, A. Arosilta, T. Dubrovin, J. Jormola, V. Keskiarja, A. Keto, A. Lepistö, R. Mäkinen, M. Ollila, H. Pajula, H. Pitkänen, I. Sammalkorpi, M. Suomalainen and N. Veijalainen, 2006: *Climate Change Adaptation for Hydrology and Water Resources*. FINADAPT Working Paper 6, Finnish Environment Institute Mimeographs 336, Helsinki, 54 pp.
- Silvestri, G.E. and C.S. Vera, 2003: Antarctic Oscillation signal on precipitation anomalies over southeastern South America. *Geophys. Res. Lett.*, **30**, 2115, doi:10.1029/2003GL018277.
- Simonovic, S.P. and L.H. Li, 2003: Methodology for assessment of climate change impacts on large-scale flood protection system. *J. Water Res. Pl.-ASCE*, **129**(5), 361–371.
- Sims, R.E.H., A. Hastings, B. Schlamadinger, G. Taylor and P. Smith, 2006: Energy crops: current status and future prospects. *Global Change Biol.*, **12**, 1-23.
- Sinclair, M.R., J.A. Renwick and J.W. Kidson, 1997: Low-frequency variability of Southern Hemisphere sea level pressure and weather system activity. *Mon. Weather Rev.*, **125**, 2531–2543.
- Sinclair, T.R. and L.C. Purcell, 2005: Is a physiological perspective relevant in a 'genocentric' age? *J. Exp. Bot.*, **56**, 2777-2782.
- Singh, R.B.K., S. Hales, N. de Wet, R. Raj, M. Hearnden and P. Weinstein, 2001: The influence of climate variation and change on diarrhoeal disease in the Pacific Islands. *Environ. Health Persp.*, **109**, 155–1594.
- Small, C. and R.J. Nicholls, 2003: A global analysis of human settlement in coastal zones. *J. Coastal Res.*, **19**, 584–599.
- Smeets, E.M.W., A.P.C. Faaij, I.M. Lewandowski and W.C. Turkenburg, 2007: A bottom up quickscan and review of global bio-energy potentials to 2050. *Prog. Energy Comb. Sci.*, **33**, 56-106.
- Smit, B. and E. Wall, 2003: *Adaptation to Climate Change Challenges and Opportunities: Implications and Recommendations for the Canadian Agri-Food Sector*; Senate Standing Committee on Forestry and Agriculture, Ottawa, Canada. <http://www.parl.gc.ca/37/2/parlbus/commbus/senate/Com-e/agri-e/power-e/smith-e.htm>.
- Smith, K.A. and F. Conen, 2004: Impacts of land management on fluxes of trace greenhouse gases. *Soil Use Management.*, **20**, 255-263.
- Smith, L.C., Y. Sheng, G.M. MacDonald and L.D. Hinzman, 2005: Disappearing Arctic lakes. *Science*, **308**, 1429.
- Smith, S.D., T.E. Huxman, S.F. Zitzer, T.N. Charlet, D.C. Housman, J.S. Coleman, L.K. Fenstermaker, J.R. Seemann and R.S. Nowak, 2000: Elevated CO₂ increases productivity and invasive species success in an arid ecosystem. *Nature*, **408**, 79 - 82.
- Smith, V.R., 2002: Climate change in the sub-Antarctic: an illustration from Marion Island. *Climatic Change*, **52**(3), 345–357.
- Smol, J.P. and Co-authors, 2005: Climate driven regime shifts in the biological communities of arctic lakes. *P. Natl. Acad. Sci. USA*, **102**(12), 4397–4402.
- SOE, 2001: *Australia State of the Environment 2001*, Independent Report to the Commonwealth Minister for the Environment and Heritage. Australian State of the Environment Committee, CSIRO Publishing on behalf of the Department of the Environment and Heritage, 129 pp. <http://www.ea.gov.au/soe/2001>.
- Solanes, M. and A. Jouravlev, 2006: *Water Governance for Development and Sustainability*. Economic Commission for Latin America and the Caribbean, Santiago, 84 pp.
- Somlyódy, L., 2002: *Strategic Issues of the Hungarian Water Resources Management*. Academy of Science of Hungary, Budapest, 402 pp (in Hungarian).
- Sommaruga-Wograth, S., K.A. Koinig, R. Schmidt, R. Sommaruga, R. Tessadri and R. Psenner, 1997: Temperature effects on the acidity of remote alpine lakes. *Nature*, **387**, 64-67.
- Sorensen, I., P. Stone and B. Rogers, 2000: Effect of time of sowing on yield of a short and a long-season maize hybrid. *Agronomy New Zealand*, **30**, 63–66.
- SRA, 2005: Sequía en el Chaco genera fuerte pérdidas. Comunicado de prensa de la Sociedad Rural Argentina. <http://www.ruralarg.org.ar/>.
- Stakhiv, E.Z., 1998: Policy implications of climate change impacts on water resource management. *Water Policy*, **1**, 159–175.
- Steenvoorden, J. and T. Endreny, 2004: *Wastewater Re-use and Groundwater Quality*. IAHS Publication 285, 112 pp.
- Stern, N., 2007: *The Economics of Climate Change: The Stern Review*. Cambridge University Press, Cambridge, 692 pp.
- Stewart, I.T., D.R. Cayan and M.D. Dettinger, 2005: Changes toward earlier streamflow timing across western North America. *J. Climate*, **18**, 1136–1155.
- Stige, L.C., J. Stave, K.S. Chan, L. Ciannelli, N. Pettoirelli, Glantz, P., H.R. Herren and N.C. Stenseth, 2006: The effect of climate variation on agro-pastoral production in Africa. *P. Natl. Acad. Sci. USA*, **103**, 3049–3053.
- Straile, D., D.M. Livingstone, G.A. Weyhenmeyer and D.G. George, 2003: The response of freshwater ecosystems to climate variability associated with the North Atlantic Oscillation. *The North Atlantic Oscillation: Climatic Significance and Environmental Impact*, Geophysical Monograph, 134. American Geophysical Union, Washington, DC, 279 pp.
- Suarez, P., W. Anderson, V. Mahal and T.R. Lakshmanan, 2005: Impacts of flooding and climate change on urban transportation: a systemwide performance assessment of the Boston Metro Area. *Transportation Research Part D-Transport and Environment*, **10**(3), 231–244.
- Summit Environmental Consultants, 2004: *Trepanier Landscape Unit (Westside) Water Management Plan*. Regional District of Central Okanagan and British Columbia, Ministry of Sustainable Resource Management, Kelowna, 300 pp.
- Sutherland, K., B. Smit, V. Wulf, and T. Nakalevu, 2005: Vulnerability

- to climate change and adaptive capacity in Samoa: the case of Saoluaifata village. *Tiempo*, **54**, 11–15.
- Sutherst, R.W., 2004: Global change and human vulnerability to vector-borne diseases. *Clin. Microb. Rev.*, **17**, 136–173.
- Sutton, R.T. and D.L.R. Hodson, 2003: Influence of the ocean on North Atlantic climate variability 1871–1999. *J. Clim.*, **16**, 3296–3313.
- Sutton, R.T. and D.L.R. Hodson, 2005: Atlantic Ocean forcing of North American and European summer climate. *Science*, **290**, 2133–2137.
- Swank, W.T. and J.E. Douglass, 1974: Streamflow greatly reduced by converting deciduous hardwood stands to pine. *Science*, **185**, 857–859.
- Swarup, A., M.C. Manna and G.B. Singh, 2000: Impact of land use and management practices on organic carbon dynamics in soils of India. *Global Climate Change and Tropical Ecosystems*, R. Lal, J.M. Kimble and B.A. Stewart, Eds., CRC-Lewis Publishers, Boca Raton, FL, 261–282.
- Swiss Re, 1998: *Floods: An Insurable Risk*, Swiss Reinsurance Company, Zurich, 51 pp.
- Syvitski, J.P.M., 2002: Sediment discharge variability in Arctic rivers: implications for a warmer future. *Polar Res.*, **21**(2), 323–330.
- Syvitski, J.P.M., C.J. Vorosmarty, A.J. Kettner and P. Green, 2005: Impact of humans on the flux of terrestrial sediment to the global coastal ocean. *Science*, **308**, 376–380.
- Szolgay, J., K. Hlavcova, S. Kohnová and R. Danihlik, 2004: Assessing climate change impact on river runoff in Slovakia. *Characterisation of the Runoff Regime and its Stability in the Tisza Catchment. Proc. XXII Conference of the Danubian Countries on the Hydrological Forecasting and Hydrological Bases of Water Management*. Brno, 30 August–2 September 2004. Brno, 2004. CD-edition.
- Tao, F., M. Yokozawa, Y. Hayashi and E. Lin, 2003a: Changes in agricultural water demands and soil moisture in China over the last half-century and their effects on agricultural production. *Agri. Forest Meteorol.*, **118**, 251–261.
- Tao, F., M. Yokozawa, Y. Hayashi and E. Lin, 2003b: Future climate change, the agricultural water cycle, and agricultural production in China. *Agri. Eco. Environ.*, **95**, 203–215.
- Tao, F., M. Yokozawa, Z. Zhang, Y. Hayashi, H. Grassl and C. Fu, 2004: Variability in climatology and agricultural production in China in association with the East Asia summer monsoon and El Niño South Oscillation. *Clim. Res.*, **28**, 23–30.
- Tao, F.L., M. Yokozawa, Y. Hayashi and E. Lin, 2005: A perspective on water resources in China: interactions between climate change and soil degradation. *Climatic Change*, **68**(1–2), 169–197.
- Tebakari, T., J. Yoshitani, and C. Suvanpimol, 2005: Time-space trend analysis in pan evaporation over kingdom of Thailand. *J. Hydrol. Eng.*, **10**, 205–215.
- Thanh, T.D., Y. Saito, D.V. Huy, V.L. Nguyen, T.K.O. Ta and M. Tateishi, 2004: Regimes of human and climate impacts on coastal changes in Vietnam. *Reg. Environ. Change*, **4**, 49–62.
- The Water Page, 2001: BPD business partners for development water and sanitation clusters. <http://www.africanwater.org/bpd.htm>.
- Thomas, C.D., A. Cameron, R.E. Green, M. Bakkenes, L.J. Beaumont, Y.C. Collingham, B.F.N. Erasmus, M.F. de Siqueira and Co-authors, 2004: Extinction from climate change. *Nature*, **427**, 145–148.
- Thomas, J.M.G., K.J. Boote, L.H. Allen Jr., M. Gallo-Meagher and J.M. Davis, 2003: Elevated temperature and carbon dioxide effects on soybean seed composition and transcript abundance. *Crop Science*, **43**(4), 1548–1557.
- Thomas, M.K., D.F. Charron, D. Waltner-Toews, C. Schuster, A.R. Maarouf and J.D. Holt, 2006: A role of high impact weather events in waterborne disease outbreaks in Canada, 1975–2001. *Int. J. Environ. Health Res.*, **16**, 167–180.
- Thomson, A.M., N.J. Rosenberg, R.C. Izaurralde and R.A. Brown, 2005a: Climate change impacts for the conterminous USA: an integrated assessment Part 5. Irrigated agriculture and national grain crop production. *Climatic Change*, **69**, 89–105.
- Thomson, M.C., S.J. Mason, T. Phindela and S.J. Connor, 2005b: Use of rainfall and sea surface temperature monitoring for malaria early warning in Botswana. *Am. J. Trop. Med. Hyg.*, **73**, 214–221.
- Thomson, M.C., F.J. Doblas-Reyes, S.J. Mason, R. Hagedorn, S.J. Connor, T. Phindela, A.P. Morse and T.N. Palmer, 2006: Malaria early warnings based on seasonal climate forecasts from multi-model ensembles. *Nature*, **439**, 576–579.
- Thornton, P.K., P.G. Jones, T.M. Owiyo, R.L. Kruska, M. Herero, P. Kristjanson, A. Notenbaert, N. Bekele and A. Omolo, with contributions from V. Orindi, B. Otiende, A. Ochieng, S. Bhadwal, K. Anantram, S. Nair, V. Kumar and U. Kulkar, 2006: *Mapping Climate Vulnerability and Poverty in Africa*. Report to the Department for International Development, ILRI, Nairobi, 200 pp.
- Treacy, J.M., 1994: *Las Chacras de Copaque: Andenes y Riego en el Valle de Colca*. Instituto de Estudios Peruanos, Lima, 298 pp.
- Trenberth, K.E., 1990: Recent observed interdecadal climate changes in the Northern Hemisphere. *Bull. Am. Meteorol. Soc.*, **71**, 988–993.
- Trenberth, K.E. and J.M. Caron, 2000: The Southern Oscillation revisited: sea level pressures, surface temperatures and precipitation. *J. Clim.*, **13**, 4358–4365.
- Trenberth, K.E. and T.J. Hoar, 1997: El Niño and climate change. *Geophys. Res. Lett.*, **24**, 3057–3060.
- Trenberth, K.E., and D.J. Shea, 2006: Atlantic hurricanes and natural variability in 2005. *Geophys. Res. Lett.*, **33**, L12704, doi:10.1029/2006GL026894.
- Trenberth, K.E. and D.P. Stepaniak, 2001: Indices of El Niño evolution. *J. Clim.*, **14**, 1697–1701.
- Trenberth, K.E., A.G. Dai, R.M. Rasmussen and D.B. Parsons, 2003: The changing character of precipitation. *Bull. Am. Meteorol. Soc.*, **84**, 1205–1217.
- Trenberth, K.E., D.P. Stepaniak and L. Smith, 2005: Interannual variability of the patterns of atmospheric mass distribution. *J. Clim.*, **18**, 2812–2825.
- Trnka, M., M. Dubrovski and Z. Zalud, 2004: Climate change impacts and adaptation strategies in spring barley production in the Czech Republic. *Climatic Change*, **64**, 227–255.
- Tuchman, N.C., K.A. Wahtera, R.G. Wentzel and J.A. Teeri, 2003: Elevated atmospheric CO₂ alters leaf litter quality for stream ecosystems: an *in situ* leaf decomposition study. *Hydrobiologica*, **495**, 203–211.
- Tumerbaatar, D., 2003: *Annual report on permafrost: potential impacts of climate change, vulnerability and adaptation assessment for grassland ecosystem and livestock sector in Mongolia*, AIACC Project Report.
- UCV, 2005: Análisis de las lluvias diarias y acumuladas durante Febrero de 2005 en la región central capital. Facultad de Ingeniería, Instituto de Mecánica de Fluidos Departamento de Ingeniería Hidrometeorológica, Universidad Central de Venezuela, Caracas.
- UK Water Industry Research, 2004: *Climate Change and the Hydraulic Design of Sewerage Systems: Summary Report*. Report 03/CC/10/0, UKWIR, London.
- UN, 2002: *CEO Briefing on Climate Change and the Financial Services Industry*. Environment Programme Finance Initiatives (UNEP FI).
- UN, 2003: *World Water Development Report: Water for Life, Water for People*. UNESCO, Paris and Berghahn Books, Barcelona, 36 pp.
- UN, 2006: *World Water Development Report 2: Water, a Shared Responsibility*. UNESCO, Paris, 601 pp.
- UNCHS, 2003: *Local Action for Global Goals: Water and Sanitation in the World's Cities 2003*. Earthscan, London.
- UNCHS, 2006: *Meeting Development Goals in Small Urban Centres:*

- Water and Sanitation in the World's Cities 2006*. Earthscan, London, 273 pp.
- UNDP, 2006: *Beyond Scarcity: Power, Poverty, and the Global Water Crisis*. Human Development Report 2006. United Nations Development Program, New York.
- UNEP/GRID-Arendal, 2002: *Vital Climate Graphics*. United Nations Environment Programme. <http://www.grida.no/climate/vital/index.htm>.
- UN-HABITAT, 2003: *The Challenge of Slums: Global Report on Human Settlements 2003*, Earthscan Publications, London, 310 pp.
- United States Environmental Protection Agency, 1997: Need for American Indian and Alaska Native water systems. *Drinking Water Infrastructure Needs Survey First Report to Congress*. EPA 812-R-97-001, UNEPA, Washington, DC, 27-33. http://www.epa.gov/ogwdw/needssurvey/pdfs/1997/report_needssurvey_1997_findings-tribal.pdf
- Unkovich, M., 2003: Water use, competition, and crop production in low rainfall, alley farming systems of south-eastern Australia. *Australian J. Agri. Res.*, **54**, pp. 751-762.
- UNMSM, 2004: Calor intenso y largas sequías. Especiales, Perú. <http://www.unmsm.edu.pe/Destacados/contenido.php?mver=11>.
- UNWWAP (United Nations World Water Assessment Programme), 2003: *Water for People, Water for Life - UN World Water Development Report*, UNESCO, Paris, and Berghahn Books, Oxford, 688 pp.
- UNWWAP (United Nations World Water Assessment Programme), 2006: *Water: A Shared Responsibility*. UNESCO, Paris, and Berghahn Books, Oxford, 600 pp.
- US Department of the Interior, 2005: *Water 2025: Preventing Crises and Conflict in the West*. Water 2025 Status Report, Washington, DC, 36 pp. <http://www.doi.gov/water2025>.
- US Global Change Research Program, 2000: *Water: the Potential Consequences of Climate Variability and Change for the Water Resources of the United States*. National Water Assessment Group, U.S. Global Change Research Program, 160 pp. <http://www.gcrio.org/NationalAssessment/water/water.pdf>.
- Uyarra, M., I. Cote, J. Gill, R. Tinch, D. Viner and A.L Watkinson, 2005: Island-specific preferences of tourists for environmental features: implications of climate change for tourism-dependent states. *Environ. Cons.*, **32**(1), 11–19.
- van Lieshout, M., R.S. Kovats, M.T.J. Livermore and P. Martens, 2004: Climate change and malaria: analysis of the SRES climate and socio-economic scenarios. *Global Environ. Chang.*, **14**, 87-99.
- Van Rheeën, N.T., A.W. Wood, R.N. Palmer and D.P. Lettenmaier, 2004: Potential implications of PCM climate change scenarios for Sacramento–San Joaquin River Basin hydrology and water resources. *Climatic Change*, **62**, 257-281.
- Vandenbergh, J., 2002: The relation between climate and river processes, landforms and deposits during the Quaternary. *Quaternary Int.*, **91**, 17–23.
- VanRheenen, Vasilev, V., 2003: Variability of *Shigella flexneri* serotypes during a period in Israel, 2000-2001. *Epidemiol. Infect.*, **132**, 51–56.
- Vásquez, O.C., 2004: *El Fenómeno El Niño en Perú y Bolivia: Experiencias en Participación Local*. Memoria del Encuentro Binacional Experiencias de prevención de desastres y manejo de emergencias ante el Fenómeno El Niño, Chiclayo, Peru. ITDG, 209 pp.
- Vasquez-Leon, M., C.T. West, and T.J. Finan, 2003: A comparative assessment of climate vulnerability: agriculture and ranching on both sides of the US-Mexico border. *Global Environ. Chang.*, **13**, 159-173.
- Venegas, S.A. and L.A. Mysak, 2000: Is there a dominant timescale of natural climate variability in the Arctic? *J. Clim.*, **13**, 3412–3434.
- Vesely, J., V. Majer, J. Kopacek and S.A. Norton, 2003: Increasing temperature decreases aluminium concentrations in Central European lakes recovering from acidification. *Limnol. Oceanogr.*, **48**, 2346-2354.
- Vic DSE, 2006: *Wimmera Mallee Pipeline*. Department of Sustainability and Environment, Victoria.
- Villagrán de León, J., J. Scott, C. Cárdenas and S. Thompson, 2003: *Early Warning Systems in the American Hemisphere: Context, Current Status, and Future Trends*. Final Report. Hemispheric Consultation on Early Warning, Antigua, 15 pp.
- Vincent, J.R., 1995: Timber trade, economics and tropical forest management. *Ecology, Conservation and Management of Southeast Asia Rainforests*, B.R. Primack and T.E. Lovejoy, Eds., Yale University Press, New Haven, CN, 241-261.
- Viner, D., M. Sayer, M. Uyarra and N. Hodgson, 2006: *Climate Change and the European Countryside: Impacts on Land Management and Response Strategies*. Report prepared for the Country Land and Business Association, CLA, Norwich, 180 pp.
- Viney, N.R., Bates, B.C., Charles, S.P., Webster, I.T., Bormans, M. and Aryal, S.K., 2003: Impacts of climate variability on riverine algal blooms. *Proc. International Congress on Modelling and Simulation, MODSIM 2003 14–17 July*, Modelling and Simulation Society of Australia and New Zealand Inc., 23–28. <http://mssanz.org.au/modsim03/Media/Articles/Vol%201%20Articles/23-28.pdf>.
- Vörösmarty, C.J., P.J. Green, J. Salisbury and R.B. Lammers, 2000: Global water resources: vulnerability from climate change and population growth. *Science*, **289**, 284–288.
- Vörösmarty, C.J., E.M. Douglas, A.A. Green and C. Ravenga, 2005: Geospatial indicators of emerging water stress: an application to Africa. *Ambio*, **34**(3), 230–236.
- Vuille, M., R.S. Bradley, M. Werner and F. Keimig, 2003: 20th century climate change in the tropical Andes: observations and model results. *Climatic Change*, **59**, 75-99.
- Wahab, H.M., 2005: The impact of geographical information system on environmental development. *Unpublished MSc Thesis*, Faculty of Agriculture, Al-Azhar University, Cairo, 149 pp.
- Wall, E., and B. Smit, 2005: Climate change adaptation in light of sustainable agriculture. *J. Sustainable Agric.*, **27**, 113–123.
- Walsh, J.E. and Co-authors, 2005: Cryosphere and hydrology. *Arctic Climate Impacts Assessment, ACIA*, C. Symon, L. Arris and B. Heal, Eds., Cambridge University Press, Cambridge, 183–242.
- Walsh, M.E., D.G. de la Torre Ugarte, H. Shapouri and S.P. Slinsky, 2003: Bioenergy crop production in the United States. *Environ. Res. Econ.*, **24**, 313-333.
- 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.
- Wang, T., 2003: Study on desertification in China. Contents of desertification research. *J. Desert Res.*, **23**(5), 477–482.
- Warren, J., J. Berner and J. Curtis, 2005: Climate change and human health: infrastructure impacts to small remote communities in the North. *Int. J. Circumpolar Health*, **64**(5), 498.
- Warren, R., N. Arnell, R. Nicholls, P. Levy and J. Price, 2006: *Understanding the Regional Impacts of Climate Change*. Research Report prepared for the Stern Review on the Economics of Climate Change. Tyndall Centre for Climate Change Research, Working Paper 90, UEA, Norwich, 223 pp
- Wassmann, R., X.H. Nguyen, T.H. Chu and P.T. To, 2004: Sea-level rise affecting the Vietnamese Mekong Delta: water elevation in the flood season and implications for rice production. *Climatic Change*, **66**, 89-107.
- Water 21, 2002: Joining forces. *Magazine of the International Water Association*, **October**, 55-57.

- Water Corporation, 2006: *Planning for New Sources of Water*. West Australian Water Corporation. http://www.watercorporation.com.au/W/water_sources_new.cfm.
- Waters, D., W.E. Watt, J. Marsalek and B.C. Anderson, 2003: Adaptation of a storm drainage system to accommodate increased rainfall resulting from climate change *J. Environ. Plan. Manag.*, **46**, 755–770.
- Watson, R.T. and W. Haeberli, 2004: Environmental threats, mitigation strategies and high mountain areas. Mountain Areas: A Global Resource. *Ambio*, **13**, 2–10.
- Watson, R.T., M.C. Zinyowera and R.H. Moss, Eds., 1997: *The Regional Impacts of Climate Change: An Assessment of Vulnerability*. Cambridge University Press, Cambridge, 517 pp.
- WDR, 2003: *World Disaster Report: Focus on Ethics in Aid*. International Federation of Red Cross and Red Crescent Societies, Geneva, 240 pp.
- WDR, 2004: *World Disaster Report: Focus on Community Resilience*. International Federation of Red Cross and Red Crescent Societies, Geneva, 240 pp.
- Webster, P.J., V.O. Magana, T.N. Palmer, J. Shukla, R.A. Tomas, M. Yanagi and T. Yasunari, 1998: Monsoons: processes, predictability and the prospects for prediction. *J. Geophys. Res.*, **103**, 14451–14510.
- Werritty, A., 2001: Living with uncertainty: climate change, river flow and water resources management in Scotland. *Sci. Total Environ.*, **294**, 29–40.
- West, T.O. and G. Marland, 2003: Net carbon flux from agriculture: carbon emissions, carbon sequestration, crop yield, and land-use change. *Biogeochem.*, **63**, 73–83.
- West, T.O. and W.M. Post, 2002: Soil organic carbon sequestration rates by tillage and crop rotation: a global data analysis. *Soil Sci. Soc. Am. J.*, **66**, 1930–1946.
- Wheaton, E., V. Wittrock, S. Kulshretha, G. Koshida, C. Grant, A. Chipanshi and B. Bonsal, 2005: *Lessons Learned from the Canadian Drought Years of 2001 and 2002: Synthesis Report*. Saskatchewan Research Council Publication No. 11602-46E03, Saskatoon, Saskatchewan. <http://www.agr.gc.ca/pfra/drought/info/11602-46E03.pdf>.
- White, M.A., N.S. Diffenbaugh, G.V. Jones, J.S. Pal and F. Giorgi, 2006: Extreme heat reduces and shifts United States premium wine production in the 21st century. *P. Natl. Acad. Sci. USA*, **103**, 11217–11222.
- Whittington, H. and S.W. Gundry, 1998: Global climate change and hydroelectric resources. *Eng. Sci. Ed. J.*, **7**, 29–34.
- WHO (World Health Organization), 2003: *Report of Synthesis Workshop on Climate Change and Health in Small Islands States*, 1–4 December 2003, Republic of the Maldives. World Health Organization, Geneva, 95 pp.
- WHO (World Health Organization), 2004: *Guidelines for Drinking Water Quality. Volume 1: Recommendations*, Third Edition, WHO, Geneva, 366 pp.
- WHO (World Health Organization), 2005: *Water Safety Plans: Managing Drinking Water Quality from Catchment to Consumer*. Prepared by A. Davison and Co-authors, WHO/SDE/WSH/05.06, WHO, Geneva, 235 pp.
- WHO/UNICEF, 2000: *Global water supply and sanitation assessment 2000 report*. World Health Organization with UNICEF, Geneva, 79 pp. http://www.who.int/docstore/water_sanitation_health/Globassessment/GlobalTOC.htm WHO/UNICEF.
- Wijeratne, M.A., 1996: Vulnerability of Sri Lanka tea production to global climate change. *Water Air Soil Poll.*, Historical Archive, 87–94.
- Wilby, R.L., 2006: When and where might climate change be detectable in UK river flows? *Geophys. Res. Lett.*, **33**(19), L19407, doi:10.1029/2006GL027552.
- Wilby R.L. and I. Harris, 2006: A framework for assessing uncertainties in climate change impacts: low-flow scenarios for the River Thames, UK. *Water Resour. Res.*, **42**, W02419, doi:10.1029/2005WR004065.
- Williams, K.L., K.C. Ewel, R.P. Stumpf, F.E. Putz and T.W. Workman, 1999: Sea-level rise and coastal forest retreat on the west coast of Florida. *Ecology*, **80**, 2045–2063.
- Williams, R.H., E.D. Larson and H. Jin, 2006: Synthetic fuels in a world of high oil and carbon prices. *Proc. 8th International Conference on Greenhouse Gas Control Technologies*, Trondheim, Norway, June.
- Williams, S.E., E.E. Bolitho and S. Fox, 2003: Climate change in Australian tropical rainforests: an impending environmental catastrophe. *P. Roy. Soc. Lond. B Bio.*, **270**, 1887–1892.
- Winter, T.C. and M.K. Woo, 1990: Hydrology of lakes and wetlands. *Surface Water Hydrology*, M.G. Wolman and H.C. Riggs, Eds., Geological Society of America, Boulder, CO, Vol. 0-1, 159–188.
- Woo, M.K., R.D. Rowsell and R.G. Clark, 1993: *Hydrological Classification of Canadian Prairie Wetlands and Prediction of Wetland Inundation in Response to Climatic Variability*. Canadian Wildlife Service, Environment Canada, Ottawa, ON, 23 pp.
- Woodruff, R.E. and Co-authors, 2002: Predicting Ross River virus epidemics from regional weather data. *Epidemiology*, **13**, 384–393.
- Woodruff, R.E., C.S. Guest, M.G. Garner, N. Becker and M. Lindsay, 2006: Early warning of Ross River virus epidemics: combining surveillance data on climate and mosquitoes. *Epidemiology*, **17**(5), 569–575.
- Woods, R.A. and C. Howard-Williams, 2004: Advances in freshwater sciences and management. *Freshwaters of New Zealand*, J.S. Harding, M.P. Mosley, C.P. Pearson and B.K. Sorrell, Eds., New Zealand Hydrological Society Inc. and New Zealand Limnological Society Inc., Christchurch, 764 pp.
- Woodworth, P.L. and D.L. Blackman, 2004: Evidence for systematic changes in extreme high waters since the mid-1970s. *J. Climate*, **17**, 1190–1197.
- World Bank, 2000: *Cities, Seas and Storms: Managing Change in Pacific Island Economies. Vol. IV, Adapting to Climate Change*. The World Bank, Washington, DC, 72 pp.
- World Bank, 2002: *World Development Indicators*, CD-ROM, The World Bank, Washington, DC.
- World Bank, 2004a: *Water Resources Sector Strategy: Strategic Directions for World Bank Engagement*. Pub. No. 28114, The World Bank, Washington, DC, 88 pp.
- World Bank, 2004b: *Modelled Observations on Development Scenarios in the Lower Mekong Basin*. Mekong Regional Water Resources Assistance Strategy, prepared for the World Bank with Mekong River Commission cooperation, Washington, DC and Vientiane, 142 pp. http://www.mrcmekong.org/free_download/report.htm.
- World Commission on Dams, 2000: *Dams and Development: A New Framework for Decision-Making*. Earthscan, London, 442 pp.
- World Water Council, 2006: *Final Report of the 4th World Water Forum*. National Water Commission of Mexico, Mexico City, 262 pp.
- World Water Forum, 2000: *The Africa Water Vision for 2025: Equitable and Sustainable Use of Water for Socioeconomic Development*. World Water Forum, The Hague, 30 pp.
- Wright, K.R. and A. Valencia Zegarra, 2000: *Machu Picchu: A Civil Engineering Marvel*. American Society of Civil Engineers Press, Reston, Virginia, 144 pp.
- Wrona, F.J. and Co-authors, 2005: Freshwater ecosystems and fisheries. *Arctic Climate Impact Assessment, ACIA*, C. Symon, L. Arris and B. Heal, Eds., Cambridge University Press, Cambridge, 353–452.
- Wrona, F.J., T.D. Prowse, J.D. Reist, J.E. Hobbie, L.M.J. Lévesque

- and W.F. Vincent, 2006: Climate change effects on aquatic biota, ecosystem structure and function. *Ambio*, **35**(7), 359–369.
- WWF, 2005: *An Overview of Glaciers, Glacier Retreat, and Subsequent Impacts in Nepal, India and China*. WWF Nepal Programme, 79 pp. <http://assets.panda.org/downloads/himalayaglacierson2005.pdf>.
- Xu, C.X., 2003: *China National Offshore and Coastal Wetlands Conservation Action Plan*. China Ocean Press, Beijing, 116 pp (in Chinese).
- Yamada, T., 1998: *Glacier Lake and its Outburst Flood in the Nepal Himalaya*. Monograph No. 1, March 1998, Data Center for Glacier Research, Japanese Society of Snow and Ice, Tokyo, 96 pp.
- Yan, X., T. Ohara and H. Akimoto, 2003: Development of region-specific emission factors and estimation of methane emission from rice field in East, Southeast and South Asian countries. *Global Change Biology*, **9**, 237–254.
- Yang, D., B. Ye and A. Shiklomanov, 2004a: Discharge characteristics and changes over the Ob River watershed in Siberia. *J. Hydrometeorol.*, **5**, 595–610.
- Yang, D., B. Ye and D.L. Kane, 2004b: Streamflow changes over Siberian Yenisei River basin. *J. Hydrol.*, **296**, 59–80.
- Yang, D.Q., D.L. Kane, L.D. Hinzman, X. Zhang, T. Zhang and H. Ye, 2002: Siberian Lena River hydrologic regime and recent change. *J. Geophys. Res.*, **107**(D23), 4694, doi:10.1029/2002JD002542.
- Yin, Y.Y., Q.L. Miao and G.S. Tian, 2003: *Climate Change and Regional Sustainable Development*. Science Press, Beijing, 224 pp.
- Yoshikawa, K. and L.D. Hinzman, 2003: Shrinking thermokarst ponds and groundwater dynamics in discontinuous permafrost. *Permafrost Periglac. Proc.*, **14**(2), 151–160.
- Young, R.A., 2005: *Determining the Economic Value of Water: Concepts and Methods*. Resources for the Future Press, Washington, DC, 300 pp.
- Zavaleta, E.S. and K.B. Hulvey, 2004: Realistic species losses disproportionately reduce grassland resistance to biological invaders. *Science*, **306**, 1175–1177.
- Zebisch, M., T. Grothmann, D. Schroeter, C. Hasse, U. Fritsch and W. Cramer, 2005: *Climate Change in Germany: Vulnerability and Adaptation of Climate Sensitive Sectors*. Federal Environmental Agency (Umweltbundesamt), Dessau, 205 pp.
- Zeidler, R.B., 1997: Continental shorelines: climate change and integrated coastal management. *Ocean Coast. Manage.*, **37**(1), 41–62.
- Zhai P. and X. Pan, 2003: Trends in temperature extremes during 1951–1999 in China. *Geophys. Res. Lett.*, **30**(17), 1913, doi:10.1029/2003GL018004.
- Zhai, P.M., 2004: Climate change and meteorological disasters. *Sci. Techn. Rev.*, **193**(7), 11–14.
- Zhai, P.M., A. Sun, F. Ren, X. Liu, B. Gao and Q. Zhang, 1999: Changes of climate extremes in China. *Climatic Change*, **42**, 203–218.
- Zhang, T.J., O.W. Frauenfeld, M.C. Serreze, A. Etringer, C. Oelke, J. McCreight, R.G. Barry, D. Gilichinsky, D.Q. Yang, H.C. Ye, F. Ling and S. Chudinova, 2005: Spatial and temporal variability in active layer thickness over the Russian Arctic drainage basin. *J. Geophys. Res.*, **110**(D16), D16101, doi:10.1029/2004JD005642.
- Zhang, Y., W. Chen and J. Cihlar, 2003: A process-based model for quantifying the impact of climate change on permafrost thermal regimes. *J. Geophys. Res.*, **108**(D22), 4695 doi:10.1029/2002JD003354.
- Zhou, G., N. Minakawa, A.K. Githeko and G. Yan, 2004: Association between climate variability and malaria epidemics in the East African highlands. *P. Natl. Acad. Sci. USA*, **101**, 2375–2380.
- Zhou, Y. and R.S.J. Tol, 2005: Evaluating the costs of desalination and water transport. *Water Resour. Res.*, **41**, 1–10.
- Zierl, B. and H. Bugmann, 2005: Global change impacts on hydrological processes in Alpine catchments. *Water Resour. Res.*, **41**(2), 1–13.

