



California State University, Chico biologist
Jeff Price, Department of Geological and
Environmental Sciences

Dr. Price was a member of the Intergovernmental Panel on Climate Change (IPCC) that was co-recipient of the 2007 Nobel Peace Prize. He was one of the lead authors of the *IPCC Fourth Assessment Report (ecosystems)*, the *IPCC Third Assessment Report (ecosystems)*, and the *IPCC Technical Paper on Climate Change and Biodiversity*. He also contributed text to a report underlying the U.K. Government's *Stern Review of the Economic Impacts of Climate Change* and to the U.S. National Assessment on Climate Change Impacts on the United States. He was co-author of the *Nature* article "Fingerprints of global warming on wild animals and plants", of the publication *The Birdwatcher's Guide to Global Warming* as well as a number of scientific papers on the potential impacts of global warming on birds. His work has been the subject of a Steve Benson editorial cartoon and is featured in the murder mystery *Death of a Songbird* by Christine Goff. Dr. Price is currently the Senior Fellow for Climate Change and Biodiversity at the United Nations Environmental Program - World Conservation Monitoring Centre in Cambridge, UK (spring semester, 2008)

RESEARCH INTERESTS:

- Vulnerability and adaptation to climate change and variability
- Developing tools and techniques to assist biodiversity in adapting to a changing climate
- Minimizing impacts of mitigation on adaptation
- Examining the potential consequences of climate-mediated species range changes on biodiversity, ecosystem dynamics and conservation practices

PAST RESEARCH PROJECTS:

- Climate Change and the Biodiversity of the San Pedro Riparian Ecosystem
- Modeling Habitat Availability for Grassland Birds under Climate Change
- Using Birds as Indicators of Climate Change
- Assessing the Vulnerability of Endangered Species to Climate Change
- Climate Change and North American Birds
- Climate Change and Warblers

PUBLICATIONS:

Price, J.T. In press. *Potential Impacts of Climate Change on Grassland Bird Distributions*. U.S. Geological Survey Technical Report.

Galbraith, H. and **J. Price**. In press. *Evaluating the Potential Effects of Climate Change on the Risk of*

Extinction to Animal Species Listed under the Endangered Species Act. U.S. Environmental Protection Agency Technical Report (in press).

Price, J. and R. Warren. 2007. *Potential Impacts of Climate Change on Neotropical Biodiversity: Adaptation Strategies*. Pages 183-196 in Proceedings of the Vth Brazilian Protected Areas Congress.

Fischlin, A., G. Midgley, **J. Price**, A. Velichko, P. Dube, R. Leemans, M. Rounsevell, J. Tarazona, B. Gopal, and C. Turley. 2007. *Ecosystems, their Properties, Goods and Services*. Intergovernmental Panel on Climate Change, Fourth Assessment Report (in press).

Casassa, G., C. Rosenzweig, A. Imeson, D. Karoly, C. Liu, A. Menzel, S. Rawlins, T.L. Root, B. Seguin, P. Tryjanowski, ... and **J. Price** (contributing author). 2007. *Assessment of Observed Changes and Responses in Natural and Managed Systems*. Intergovernmental Panel on Climate Change Fourth Assessment Report (in press).

Warren, R., N. Arnell, R. Nicholls, P. Levy and **J. Price**. 2006. *Understanding the Regional Impacts of Climate Change*. Report prepared for the Stern Review on the Economics of Climate Change. Tyndall Centre for Climate Change Research Working Paper No. 90.

Burkett, V., D.A. Wilcox, R. Stottlemeyer, W. Barrow, D. Fagre, J. Baron, **J. Price**, J.L. Nielsen, C.D. Allen, D.L. Peterson, G. Ruggione and T. Doyle. 2005. Nonlinear dynamics in ecosystem responses to climatic change: case studies and policy implications. *Ecological Complexity* 2: 357-394.

Price, J.T. and T.L. Root. 2005. Potential impacts of climate change on Neotropical migrants: management implications. Pages 1123-1128 in C.J. Ralph and T.D. Rich (eds.) *Bird Conservation Implementation and Integration in the Americas: Proceedings of the Third International Partners in Flight Conference*, Pacific Southwest Research Station, PSW-GTR-191.

Root, T.L., **J.T. Price**, K.R. Hall, S.H. Schneider and C. Rosenzweig. 2005. The impact of climatic change on wild animals and plants: a meta-analysis. Pages 1115-1118 in C.J. Ralph and T.D. Rich (eds.) *Bird Conservation Implementation and Integration in the Americas: Proceedings of the Third International Partners in Flight Conference*, Pacific Southwest Research Station, PSW-GTR-191.

Inkley, D.B., M.G. Anderson, A.R. Blaustein, V.R. Burkett, B. Felzer, B. Griffith, **J. Price** and T.L. Root. 2004. *Global Climate Change and Wildlife in North America*. Technical review 04-2. The Wildlife Society, Bethesda, MD, 26 pp.

Galbraith, H., **J. Price**, M. Dixon, and J. Stromberg. 2004. Using HSI models to evaluate risks to riparian wildlife habitat from climate change and urban sprawl. in L.A. Kapustka, H. Galbraith, M. Luxon, and G.R. Biddinger (eds.) *Landscape Ecology and Wildlife Habitat Evaluation: Critical information for ecological risk assessment, land-use management activities, and biodiversity enhancement practices*. ASTM STP 1458, ASTM International, West Conshohocken, PA.

Root, T.L., **J.T. Price**, K.R. Hall, S.H. Schneider, C. Rosenzweig and J.A. Pounds. 2003. Fingerprints of global warming on animals and plants. *Nature* 421: 57-60.

Gitay, H., A. Suarez, R.T. Watson and D.J. Dokken (editors). 2002. *Climate Change and Biodiversity*. Intergovernmental Panel on Climate Change, Switzerland, 77p. **Lead author**.

Price, J. 2002. Climate change, birds and ecosystems – why should we care? Pages 465-469 in Rapport, D.J., W.L. Lasley, D.E. Rolston, N.O. Nielsen, C.O. Qualset and A.B. Damania (eds.) *Managing for Healthy Ecosystems*. Lewis Publishers, Boca Raton, Florida.

McCarthy, J.J., O.F. Canziani, N.A. Leary, D.J. Dokken and K.S. White (eds.). 2001. *Climate Change 2001: Impacts, Adaptation, and Vulnerability*. Cambridge University Press, Cambridge, UK. 1032 pp.

Lead Author, Summary for Policy Makers, pp. 1-17.

Lead Author, Technical Summary, pp. 19-73.

Lead Author, Ecosystems and Their Goods and Services, pp. 235-342.

Contributing Author, Small Island States, pp. 843-876.

Contributing Author, Vulnerability to Climate Change and Reasons for Concern: A Synthesis, pp. 913-967.

Price, J.T. and T.L. Root. 2001. Climate change and Neotropical migrants. *Transactions of the North American Wildlife and Natural Resources Conference* 66: 371-379.

Price, J. 2001. Climate change, warblers and spruce budworms. *Pages 60-63 in* Green, R.E., M. Harley, M. Spalding and C. Zockler (eds.). *Impacts of Climate Change on Wildlife*. Royal Society for the Preservation of Birds, UK.

Price, J.T. and T.L. Root, 2000. Focus: Effects of climate change on bird distributions and migration patterns. *Pages 65-68 in* P.J. Sousounis and J.M. Bisanz (eds.). *Preparing for a Changing Climate: The Potential Consequences of Climate Variability and Change*. University of Michigan, Atmospheric, Oceanic, and Space Sciences Dept., Ann Arbor, Michigan.

Price, J. 2000. Climate change and bird distributions in the Mid-Atlantic Region. *Page 32 in* A. Fisher, D. Abler, E. Barron, R. Bord, R. Crane, D. DeWalle, C.G. Knight, R. Najjar, E. Nizeyimana, R. O'Connor, A. Rose, J. Shortle and B. Yarnal (eds.). *Preparing for a Changing Climate: Mid-Atlantic Overview for the National Assessment on the Potential Consequences of Climate Change for the United States*. Mid-Atlantic Regional Assessment Report, The Pennsylvania State University, University Park, Pennsylvania.

Price, J.T., T.L. Root, K.R. Hall, G. Masters, L. Curran, W. Fraser, M. Hutchins and N. Myers. 2000. *Supplemental Information for Working Group II, Third Assessment Report, Section 5.4 - Wildlife in Ecosystems*. Review report prepared for the Intergovernmental Panel on Climate Change. 79 pp.

Arias Rojo, H., J. Bredehoeft, R. Laceywell, **J. Price**, J. Stromberg and G. Thomas. 1998. *Sustaining and Enhancing Riparian Migratory Bird Habitat on the Upper San Pedro River*. Expert report prepared for the Secretariat of the Commission for Environmental Cooperation, Montreal, Quebec.

Project Reports:

Price, J., H. Galbraith, M. Dixon, J. Stromberg, T. Root, D. MacMykowski, T. Maddock and K. Baird. 2005. *Potential Impacts of Climate Change on Ecological Resources and Biodiversity in the San Pedro Riparian National Conservation Area, Arizona*. Final project report submitted to the U.S. Environmental Protection Agency. 543 pp.

Price, J.T. 2003. *Assessing the Potential Availability of Habitat for Climate-induced Range Shifts of Grassland Birds*. Technical report submitted to the U.S. Geological Survey.

Price, J.T. 2003. *Calculating the Climate Envelopes of North American Grassland Birds*. Technical report submitted to the U.S. Geological Survey.

OTHER PUBLICATIONS:

Price, J. 2004. Modeling the potential impacts of climate change on the summer distributions of Iowa's passerine birds. *Iowa Bird Life* 74(1): 1-7.

Price, J. 2004. Climate change and Wisconsin's songbirds. *The Passenger Pigeon* 66(1): 51-59.

Price, J. 2004. Potential impacts of climate change on the summer distributions of southern Ontario's passerine birds. *Ontario Birds* 22(1): 20-30.

- Price, J.** 2004. Modeling the potential impacts of climate change on the summer distributions of New York's passerine birds. *The Kingbird* 54(2): 113-118.
- Price, J.T.** 2004. Modeling the potential impacts of climate change on the summer distributions of Illinois' Nongame birds. *The Meadowlark* 13:2-7.
- Price, J.** 2004. Modeling the potential impacts of climate change on the summer distributions of South Dakota's passerine birds. *South Dakota Bird Notes* (in press).
- Price, J.** 2004. Climate change and Indiana's Songbirds. *Indiana Audubon Quarterly*.
- Price, J.** 2003. Modeling the potential impacts of climate change on the summer distributions of Pennsylvania's nongame birds. *Pennsylvania Birds* 17: 179-183.
- Price, J.T.** 2003. A birder's guide to climate change. *Birding* 35(6): 630-639.
- Price, J.** 2003. Potential impacts of climate change on the summer distributions of southern Alberta's passerine birds. *Alberta Naturalist* 33(4): 80-83.
- Price, J.** 2003. Global warming and the summer distributions of New Brunswick's passerine birds. *New Brunswick Naturalist* 30(3): 93-95.
- Price, J.** 2003. Bugs, balsam, birds and climate change. *Bird Conservation*, June 2003, pages 4-5.
- Price, J.T.** and P.L. Glick. 2002. *The Birdwatcher's Guide to Global Warming*. National Wildlife Federation and American Bird Conservancy, 36 pp. plus CD-ROM of state fact sheets.
- Price, J.T.** and T.L. Root. 2002. No orioles in Baltimore? Climate change and Neotropical migrants. *Bird Conservation* 17: 12.
- Price, J.** 2001. Modeling the potential impacts of climate change on the summer distributions of Georgia's Nongame birds. *The Oriole* 66(2): 1-8.
- Price, J.** 2000. Modeling the potential impacts of climate change on the summer distributions of Ohio's Nongame birds. *Ohio Birds and Natural History* 2(1): 32-39.
- Price, J.** 2000. Modeling the potential impacts of climate change on the summer distributions of Massachusetts' passerines. *Bird Observer* 28(4): 224-230.
- Price, J.** 2000. Modeling the potential impacts of climate change on the summer distributions of Michigan's Nongame birds. *Michigan Birds and Natural History* 7(1): 3-13.
- Price, J.** 2000. Modeling the potential impacts of climate change on the summer distribution of Colorado's Nongame birds. *Journal of the Colorado Field Ornithologists* 34:160-167.
- Price, J.** 2000. Climate change and Minnesota birds. *Minnesota Birding* 37(2): 14-15.
- Chiple, R., M. del Coro Arizmendi Arriaga, F. Baumgarten, C. Chute, I. Pisanty, **J. Price** and S. Wilcox. 1999. *North American Important Bird Areas: A directory of 150 key conservation sites*. Commission for Environmental Cooperation, Montreal, Quebec, 359 pp.
- Carter, M., G. Fenwick, C. Hunter, D. Pashley, D. Petit, **J. Price**, and J. Trapp. 1996. For the future: the 1996 WatchList. *Field Notes* 50(3): 238-240.

INVITED PROFESSIONAL SEMINARS:

Australian Environmental Protection Agency, Brisbane, Australia, 2007
Percy FitzPatrick Institute of African Ornithology, Cape Town, South Africa, 2006
University of East Anglia, Norwich, England, 2005
Iowa State University, Ames, 2005
l'Universite de La Reunion, St. Denis, Reunion, 2005
California State University, Chico, 2004
California State University, Fresno, 2004
Université catholique de Louvain , Belgium, 2004
Boulder County Parks and Open Space Managers, Boulder, CO 2003
University of Colorado Society for Conservation Biology, Boulder, CO 2003
Columbia University, Biosphere 2, Oracle, AZ, 1999
Cornell Laboratory of Ornithology, Ithaca, NY, 1995
Smithsonian Migratory Bird Center, Washington, DC, 1994
San Diego State University, San Diego, CA, 1994
Northern Prairie Wildlife Research Center, Jamestown, ND, 1991
University of Maine, Orono, ME 1990

RECENT INVITED PUBLIC TALKS:

Ohio Bird Conservation Conference, Columbus, Ohio, 2007
Puget Sound Bird Festival, Edmonds, Washington, 2007
Conference on World Affairs, Boulder, Colorado, 2007
This Way to Sustainability Conference, Chico, California, 2006
Center for Applied and Professional Ethics Forum, Chico, California 2006
Turtle Bay Museum, Redding, California, 2006
Cleveland Museum of Natural History, Cleveland, Ohio, 2006
Wintu Audubon Society, Redding, California, 2005
Foothills Audubon Society, Berthoud, Colorado, 2004
Grand Valley Audubon Society, Grand Junction, Colorado, 2003
Pueblo Audubon Society, Pueblo, Colorado, 2003
Fort Collins Audubon Society, Fort Collins, Colorado, 2003
Chicago Field Ornithologists, Chicago, Illinois, 2003
Boulder County Audubon Society, Boulder, Colorado, 2002
Evergreen Naturalists and Audubon Society, Evergreen, Colorado, 2002
Denver Field Ornithologists, Denver, Colorado, 2002
National Wildlife Federation Annual Meeting, Atlanta, Georgia, 2002
Pt. Pelee Festival of Birds, Leamington, Ontario, 2000