

**Joint Program on the Science and Policy of Global Change
Massachusetts Institute of Technology**

<http://globalchange.mit.edu>

GTAP-related activities, 2009

The MIT Joint Program on the Science and Policy of Global Change made extensive use of the GTAP data set for research and analysis conducted in the program over the past year (see the following publication list). GTAP data serves as the principal economic data for the Program's Emissions Prediction and Policy Analysis (EPPA) model, a CGE model of the world economy with details on the energy sector and on emissions of greenhouse gases and other air pollutants.

2009 AND 2010 PUBLICATIONS USING GTAP (AS OF APRIL 2010)

Journal articles and other publications:

Karplus, V.J., S. Paltsev and J.M. Reilly, 2010: Prospects for plug-in hybrid electric vehicles in the United States and Japan: A general equilibrium analysis, *Transportation Research Part A*, in press.

Prinn, R., S. Paltsev, A. Sokolov, M. Sarofim, J. Reilly and H. Jacoby, 2010: Scenarios with MIT Integrated Global System Model: Significant global warming regardless of different approaches, *Climatic Change*, in press.

Nam, K.M., N.E. Selin, J.M. Reilly and S. Paltsev, 2010: Measuring welfare loss caused by air pollution in Europe: A CGE analysis, *Energy Policy*, in press.

Webster, M., S. Paltsev and J. Reilly, 2010: The Hedge Value of International Emissions Trading under Uncertainty, *Energy Policy*, 38(4): 1787-1796

Babiker, M., A. Gurgel, S. Paltsev and J. Reilly, 2009: Forward-looking versus recursive-dynamic modeling in climate policy analysis: A comparison, *Economic Modelling*, 26(6): 1341-1354

Jacoby, H.D., M.H. Babiker, S. Paltsev and J.M. Reilly, 2009: Sharing the Burden of GHG Reductions, in: *Post-Kyoto International Climate Policy*, J. Aldy and R. Stavins (eds.), Cambridge University Press, UK, pp. 753-785

McFarland, J.R., S. Paltsev and H.D. Jacoby, 2009: Analysis of the Coal Sector under Carbon Constraints, *Journal of Policy Modeling*, 31(3): 404-424

Melillo, J.M., J.M. Reilly, D.W. Kicklighter, A.C. Gurgel, T.W. Cronin, S. Paltsev, B.S. Felzer, X. Wang, A.P. Sokolov, and C.A. Schlosser, 2009: Indirect Emissions from Biofuels: How Important?, *Science*, 326(5958): 1397-1399

Paltsev, S., and J. Reilly, 2009: Energy Scenarios for East Asia, 2005-2025, in: *From Growth to Convergence: Asia's Next Two Decades*, F. Zhai (editor), Palgrave-Macmillan, pp. 211-239

Paltsev, S., J. Reilly and A. Gurgel, 2009: Commercial Viability of Second Generation Biofuel Technology, in: *The Biofuels Market: Current Situation and Alternative Scenarios*, United Nations Conference on Trade and Development, Report UNCTAD/DITC/BCC/2009, United Nations, Geneva/New York, Chapter 3, pp. 29-50

Paltsev, S., J.M. Reilly, H.D. Jacoby and J.F. Morris, 2009: The cost of climate policy in the United States, *Energy Economics*, 31(Supplement 2): S235-S243

Reilly, J., and S. Paltsev, 2009: Biomass Energy and Competition for Land, in: *Economic Analysis of Land Use in Global Climate Change Policy*, T. Hertel, S. Rose, R. Tol (eds.), Routledge, pp. 184-207, UK

Selin, N.E., S. Wu, K.-M. Nam, J.M. Reilly, S. Paltsev, R.G. Prinn and M.D. Webster, 2009: Global Health and Economic Impacts of Future Ozone Pollution, *Environmental Research Letters*, 4(044014): 1-9

Sokolov, A.P., P.H. Stone, C.E. Forest, R. Prinn, M.C. Sarofim, M. Webster, S. Paltsev, C.A. Schlosser, D. Kicklighter, S. Dutkiewicz, J. Reilly, C. Wang, B. Felzer, J.M. Melillo and H.D. Jacoby, 2009: Probabilistic Forecast for 21st Century Climate Based on Uncertainties in Emissions (Without Policy) and Climate Parameters, *Journal of Climate*, **22**(19): 5175-5204

Wigley, T.M.L., L.E. Clarke, J.A. Edmonds, H.D. Jacoby, S. Paltsev, H. Pitcher, J.M. Reilly, R. Richels, M.C. Sarofim and S.J. Smith, 2009: Uncertainties in Climate Stabilization, *Climatic Change*, **97**(1-2): 85-121

MIT Joint Program Reports (those not listed above as journal articles):

(Available at: <http://globalchange.mit.edu/pubs/reports.php>)

184. Winchester, N., S. Paltsev and J.M. Reilly, 2010: *Will Border Carbon Adjustments Work?*, February, 25 p.

183. Chan, G., J. Reilly, S. Paltsev and Y.-H. Chen, 2010: *Canada's Bitumen Industry Under CO2 Constraints*, January, 27 p.

180. Webster, M., A.P. Sokolov, J.M. Reilly, C.E. Forest, S. Paltsev, A. Schlosser, C. Wang, D. Kicklighter, M. Sarofim, J. Melillo, R.G. Prinn and H.D. Jacoby, 2009: *Analysis of Climate Policy Targets under Uncertainty*, September, 53 p.

176. Gitiaux, X., S. Paltsev, J. Reilly and S. Rausch, 2009: *Biofuels, Climate Policy and the European Vehicle Fleet*, August, 32 p.