

**MIT Joint Program on the Science and Policy of Global Change
Massachusetts Institute of Technology, Cambridge, USA**

<http://globalchange.mit.edu>

GTAP-related activities, 2014

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 global CGE model of the world economy with details on the energy sector and on emissions of greenhouse gases and other air pollutants. The EPPA model was used for variety of applications.

2014 AND 2015 PUBLICATIONS BY MIT JOINT PROGRAM USING GTAP (AS OF MAY 2015)

Journal Publications:

Octaviano, C., S. Paltsev, and A. Gurgel, 2015, "Climate change policy in Brazil and Mexico: Results from the MIT EPPA model," *Energy Economics*, in press.

Paltsev, S., V. Karplus, H. Chen, I. Karkatsouli, J. Reilly, and H. Jacoby, 2015, "Regulatory Control of Vehicle and Power Plant Emissions: How Effective and at What Cost?" *Climate Policy*, in press.

Paltsev, S., E. Monier, J. Scott, A. Sokolov, and J. Reilly, 2015, "Integrated Economic and Climate Projections for Impact Assessment," *Climatic Change*, in press.

Nam, K-M., C. Waugh, S. Paltsev, J. Reilly, and V. Karplus, 2015, "Synergy between Pollution and Carbon Emissions Control: Comparing China and the United States," *Energy Economics*, 46, 186-201.

Schlosser, A., K. Strzepek, X. Gao, C. Fant, E. Blanc, S. Paltsev, H. Jacoby, J. Reilly, and A. Gueneau, 2014, "The future of global water stress: An integrated assessment," *Earth's Future*, 2(8), 341-361.

Kicklighter D., Y. Cai, Q. Zhuang, E. Parfenova, S. Paltsev, A. Sokolov, J. Melillo, J. Reilly, N. Tchebakova, and X. Lu, 2014, "Potential influence of climate-induced vegetation shifts on future land use and associated land carbon fluxes in Northern Eurasia," *Environmental Research Letters*, 9, 035004.

Paltsev, S., 2014, "Scenarios for Russia's Natural Gas Exports to 2050," *Energy Economics*, 42, 262-270.

Gurgel, A. and S. Paltsev, 2014, "Cost of reducing GHG emissions in Brazil," *Climate Policy*, 14(2), 209-223.

Valin, H., R. Sands, D. van der Mensbrugghe, G. Nelson, H. Ahammad, E. Blanc, B. Bodirsky, S. Fujimori, T. Hasegawa, P. Havlik, E. Heyhoe, P. Kyle, D. Mason-D'Croz, S. Paltsev, S. Rolinski, A. Tabeau, H. van Meijl, M. von Lampe, and D. Willenbockel, 2014, "The Future of Food Demand: Understanding Differences in Global Economic Models," *Agricultural Economics*, 45(1), 51-67.

MIT Joint Program Reports:

Paltsev, S., Y.-H.H. Chen, V. Karplus, P. Kishimoto and J. Reilly, 2015, Impacts of CO2 Mandates for New Cars in the European Union, MIT Joint Program Report 281, Cambridge MA.

<http://globalchange.mit.edu/research/publications/2901>

Chen, Y.-H.H., S. Paltsev, J.M. Reilly, J.F. Morris and M.H. Babiker, 2015, The MIT EPPA6 Model: Economic Growth, Energy Use, and Food Consumption, MIT Joint Program Report 278, Cambridge MA.

<http://globalchange.mit.edu/research/publications/2892>

Winchester, N., R. Malina, M.D. Staples and S.R.H. Barrett, 2015, The Impact of Advanced Biofuels on Aviation Emissions and Operations in the U.S., MIT Joint Program Report 275, Cambridge MA.

<http://globalchange.mit.edu/research/publications/2876>

Winchester, N. and J.M. Reilly, 2015, The Contribution of Biomass to Emissions Mitigation under a Global Climate Policy, MIT Joint Program Report 273, Cambridge MA.

<http://globalchange.mit.edu/research/publications/2865>

Morris, J.F., J.M. Reilly and Y.-H.H. Chen, 2014, Advanced Technologies in Energy-Economy Models for Climate Change Assessment, MIT Joint Program Report 272, Cambridge MA.

<http://globalchange.mit.edu/research/publications/2863>

Jacoby, H.D. and Y.-H.H. Chen, 2014, Expectations for a New Climate Agreement, MIT Joint Program Report 264, Cambridge MA.

<http://globalchange.mit.edu/research/publications/2835>