

Chris Moore, Economist in EPA's [National Center for Environmental Economics](#)

Research Interests: Ecosystem service valuation; water pollution regulations, dynamic optimization; bayesian econometrics, survey methods

Biography: Chris Moore has been an economist at the National Center for Environmental Economics at the U.S. EPA since 2008. He pursues economic analysis and provides his expertise on water quality policies and regulations, including several recent major regulations concerning the Waters of the U.S. and effluent guidelines regulations on electric utilities. He has also been leading the office's efforts to make advances in the development of regional and national surveys designed to estimate households' willingness to pay for water quality improvements. His research focus has also included examination of the economic consequences of ocean acidification and analyzing the economic implications of climate change. Prior joining the Agency, he served as an associate economics for Triangle Economic Research (2000-2002). Chris has a MA (2015) and PhD (2008) in economics from North Carolina State University.

E-mail: moore.chris@epamail.epa.gov

Recent [NCEE Working Papers](#):

[“Muddying the Water? An Analysis of Non-Constant Baselines in Stated Preference Surveys,”](#) (with Kelly Maguire, Dennis Guignet, Chris Dockins and Nathalie Simon), NCEE Working Paper, 2018-02.

[“Welfare Analysis in a Two-Stage Inverse Demand Model: An Application to Harvest Changes in the Chesapeake Bay,”](#) (with Charles Griffiths), NCEE Working Paper, 2017-04.

[“Commercial fishing and outdoor recreation benefits of water quality improvements in the Chesapeake Bay,”](#) (with Matt Massey, Steve Newbold, Tom Ihde and Howard Townsend), NCEE Working Paper, 2017-02.

["A Stated Preference Study of the Chesapeake Bay and Watershed Lakes,"](#) (with Dennis Guignet, Kelly B. Maguire, Chris Dockins and Nathalie B. Simon), NCEE Working Paper, 2015-06.

["Welfare Impacts of Ocean Acidification: An Integrated Assessment Model of the US Mollusk Fishery,"](#) NCEE Working Paper, 2011-06.

["The 'Social Cost of Carbon' Made Simple,"](#) (with Steve Newbold, Charles Griffiths, Ann Wolverton and Elizabeth Kopits), NCEE Working Paper, 2010-07.

["An Options Based Bioeconomic Model for Biological and Chemical Control of Invasive Species,"](#) (with Alex Marten), NCEE Working Paper, 2010-06.

["Valuing Forest Protection Programs to Maximize Economic Benefit,"](#) (with Thomas Holmes), NCEE Working Paper, 2008-07.

Peer-Reviewed Publications:

["Welfare Analysis in a Two-Stage Inverse Demand Model: An Application to Harvest Changes in the Chesapeake Bay."](#) (with Charles Griffiths), *Empirical Economics*: (55) pp 1181-1206, 2018.

["Impacts of Climate Change and Ocean Acidification on Coral Reef Fisheries: An Integrated Ecological-Economic Model,"](#) (with Ann Speers, Elena Besedin and James Palardy), *Ecological Economics*, 128, pp. 33-43, August 2016.

["Welfare Estimates of Avoided Ocean Acidification in the U.S. Mollusk Market,"](#) *Journal of Agricultural and Resource Economics*, 40(1), pp. 50-62, January 2015.

["A Rapid Assessment Model for Understanding the Social Cost of Carbon,"](#)(with Steve Newbold, Charles Griffiths, Elizabeth Kopits and Ann Wolverton), *Climate Change Economics*, 4(1), 40pp., February 2013.

["Towards improved socio-economic assessments of ocean acidification's impacts."](#) (with Nathalie Hilmi, Denis Allemand, Sam Dupont, Alain Safa, Gunnar Haraldsson, Paulo Nunes, Caroline Hattam, Stephanie Reynaud, Jason Hall-Spencer, Maoz Fine, Carol Turley, Ross Jeffree, James Orr, Philip Munday and Sarah Cooley), *Marine biology*, 160(8), pp. 1773-1787, 2013

["U.S. Environmental Protection Agency Valuation of Surface Water Quality,"](#) (with Charles Griffiths, Heather Klemick, Matt Massey, Steve Newbold, David Simpson, Patrick Walsh and William Wheeler), *Review of Environmental Economics and Policy*, 6(1), pp. 130-146, 2012.

["An Options Based Bioeconomic Model for Biological and Chemical Control of Invasive Species."](#) (with Alex Marten), *Ecological Economics*, 70(11), pp. 2050-2061, September 2011.

["A Bayesian Bioeconometric Model of Invasive Species Control: The Case of the Hemlock Woolly Adelgid,"](#) *Environmental and Resource Economics* 50(1), pp 1-26, September 2011.

["An Attribute-Based Approach to Contingent Valuation of Forest Protection Programs,"](#) *Journal of Forest Economics*, 17(1), pp. 35-52, January 2011.

Select EPA and Other Publications:

["Valuing Mortality Risk Reductions for Policy: a Meta-Analytic Approach,"](#) (with Steve Newbold, Kelly Maguire, Chris Dockins, and Nathalie B. Simon). Prepared for the Science Advisory Board, Environmental Economics Advisory Committee, 2016.

"The Social Cost of Carbon: Valuing Carbon Reductions in Policy Analysis." (with Ann Wolverton, Elizabeth Kopits, Charles Griffiths, Alex Marten and Steve Newbold), [*Fiscal Policy to Mitigate Climate Change: Guide for Policymakers*](#), International Monetary Fund, Washington, D.C., 2012.

["Valuing Mortality Risk Reductions for Environmental Policy: A White Paper,"](#) (with Steve Newbold, Kelly Maguire, Chris Dockins, and Nathalie B. Simon.) Prepared for the Science Advisory Board, Environmental Economics Advisory Committee, 2010.