

CASTNET Reference Listing: 2006-2010

Included publications that used CASTNET data or made comparisons to CASTNET data. A publicly available listing of all citations using CASTNET data is accessible at <https://www.epa.gov/castnet/castnet-bibliography>.

Barna, M.G., Gebhart, K.A., Schichtel, B.A., Malm, W.C.	2006	Modeling regional sulfate during the BRAVO study: Part 1. Base emissions simulation and performance evaluation	Atmospheric Environment 40:2436-2448
Baron, J.S.	2006	Hindcasting nitrogen deposition to determine an ecological critical load	Ecological Applications 16:433-439
Gego, E., Porter, P.S., Hogrefe, C., Irwin, J.S.	2006	An objective comparison of CMAQ and REMSAD performances	Atmospheric Environment 40:4920-4934
Gilliland, A.B., Appel, K.W., Pinder, R.W., Dennis, R.L.	2006	Seasonal NH ₃ emissions for the continental United States: Inverse model estimation and evaluation	Atmospheric Environment 40:4986-4998
Meuller, S.F., Bailey, E.M., Cook, T.M., Mao, Q.	2006	Treatment of clouds and the associated response of atmospheric sulfur in the Community Multiscale Air Quality (CMAQ) modeling system	Atmospheric Environment 40:6804-6820
Park, R. J., Jacob, D.J., Kumar, N., Yantosca, R.M.	2006	Regional visibility statistics in the United States: Natural and transboundary pollution influences, and implications for the Regional Haze Rule	Atmospheric Environment 40:5405-5423
Phillips, S.B., Finkelstein, P.L.	2006	Comparison of spatial patterns of pollutant distribution with CMAQ predictions	Atmospheric Environment 40:4999-5009
Tong, D.Q., Mauzerall, D.L.	2006	Spatial variability of summertime tropospheric ozone over the continental United States: Implications of an evaluation of the CMAQ model	Atmospheric Environment 40:3041-3056
Yu, S., Eder, B.	2006	A Performance Evaluation of the 2004 Release of Models-3 CMAQ	Atmospheric Environment, 40:4811-4824

Yu, S., Eder, B., Dennis, R., Chu, S.-H., Schwartz, S.E.	2006	New Unbiased Symmetric Metrics for Evaluation of Air Quality Models	Atmospheric Science Letters 7:26-34
Zhang, Y., Liu, P., Pun, B., Seigneur, C.	2006	A comprehensive performance evaluation of MM5-CMAQ for the Summer 1999 Southern Oxidants Study episode-Part I: Evaluation protocols, databases, and meteorological predictions	Atmospheric Environment 40:4825-4838
Zhang, Y., Liu, P., Queen, A., Misenis, C., Pun, B., Seigneur, C., Wu, S.	2006	A comprehensive performance evaluation of MM5-CMAQ for the summer 1999 Southern Oxidants Study episodes-Part II: Gas and aerosol predictions	Atmospheric Environment 40:4839-4855
Baker, K., Scheff, P.	2007	Photochemical model performance for PM2.5 sulfate, nitrate, ammonium and precursor species SO2, HNO3, and NH3 at background monitor locations in the central and eastern US	Atmospheric Environment 41: 6185-6195
Jaffe, D., Ray, J.	2007	Increase in surface ozone at rural sites in the western US	Atmospheric Environment 41:5452-5463
Kolian, M.J.	2007	Assessing EPA's Deposition Monitoring Programs and Providing Accountability	EM Magazine, AWMA
Lou, C., Zender, C.S., Bian, H., Metzger, S.	2007	Role of ammonia chemistry and coarse mode aerosols in global climatological inorganic aerosol distributions	Atmospheric Environment 41: 2510-2533
Sickles II, J.E., Shadwick, D.S.	2007	Changes in air quality and atmospheric deposition in the Eastern United States: 1990-2004	J. Geophysical Research 112:D17301 doi:10.1029/200
Sickles II, J.E., Shadwick, D.S.	2007	Seasonal and regional air quality and atmospheric deposition in the Eastern United States	J. Geophysical Research 112:D17302 doi:10.1029/20

Sickles II, J.E., Shadwick, D.S.	2007	Effects of missing seasonal data on estimates of period means of dry and wet deposition	Atmospheric Environment 41:4931-4939
Zheng, J., Swall, J.L, Cox, W.M., Davis, J.M.	2007	Interannual variation in meteorologically adjusted ozone levels in the eastern United States: a comparison of two approaches	Atmospheric Environment 41: 705-716
Appel, K.W.; Bhawe, P.V.; Gilliland, A.B.; Sarwar, G.; Roselle, S.J.	2008	Evaluation of the community multiscale air quality (CMAQ) model version 4.5: Part II	Atmospheric Environment, 42: 6057-6066
Bytnerowicz, A; Arbaugh, M; Schilling, S; Fraczek, W; Alexander, D.	2008	Distribution and phytotoxic potential in mixed conifer forests of the San Bernardino Mountains	Environmental Pollution, 155: 398-408
Civerolo, K.L. et al.	2008	Simulated Effects of Climate Change on Summertime Nitrogen Deposition in the Eastern US	Atmospheric Environment, 42:2074-2082
Gilliland, A.B.; Hogrefe, C.; Pinder, R.W.; Godowitch, J.M.; Foley, K.L.; Rao, S.T.	2008	Dynamic evaluation of regional air quality models	Atmospheric Environment 42: 5110-5123
Krupa, S., Booker, F., Bowersox, V., Lehmann, C.T., Grantz, D.	2008	Uncertainties in the current knowledge of some atmospheric trace gases associated with cropping systems in the US	J. of Air & Waste Management Assoc, 58:986-993
Mathur, R., Yu, S., Kang, D., Schere, K.L.	2008	Assessment of the Wintertime Performance of Developmental PM Forecasts with the Eta-CMAQ	J. Geophysical Research 113:D02303
Rogers, C.M., Lavery, T.F., Mishoe, K.P.	2008	Sensitivity Analysis of the Multi-Layer Model Used in the Clean Air Status & Trends Network(CASTNET)	EPA/600/R-08/126
Sickles, J.E., Shadwick, D.S.	2008	Comparison of particulate sulfate and nitrate at collocated CASTNET and IMPROVE sites in the eastern	Atmospheric Environment, 42: 2062-2073
Stephen, K.; Aneja, V.P.	2008	Trends in agricultural NH3 emissions and NH4 concentrations in precipitation over the SE and MW US	Atmospheric Environment, 42: 3238-3252

Tagaris, E., Liao, K.J., Manomaiphiboon, K., Woo, J.H., He, S., Amar, P., Russell, A.G.	2008	Impacts of future climate change & emissions reductions on nitrogen & sulfur deposition over the US	Geophysical Research Letters, 35, L08811
Yu, S. et. al.	2008	Evaluation of Real-time PM2.5 Forecasts & Process Analysis for PM2.5 Formation over the Eastern US	J. Geophysical Research 113:D06204
Bohlke, J.K., Michel, R.L.	2009	Contrasting Residence Times & Fluxes of Water and Sulfate in Two Small Forested Watersheds in VA	Science of the Total Environment, 14:4363-4377
Buda, A.R., DeWalle, D.R.	2009	Using Atm Chem & StormTrack Info to Explain Variation of NO3 Stable Isotopes in Precip at Site in PA	Atmospheric Environment, 43:4453-4464
Castellanos, P., Stehr, J.W., Dickerson, R.R., Ehrman, S.H.	2009	Sensitivity of Modeled O3 to Temporal Distribution of Point Area & Mobile Source Emissions in E. US	Atmospheric Environment, 43:4603-4611
Choi, H., Holsen, T.M.	2009	Gaseous Mercury Fluxes from the Forest Floor of the Adirondacks	Environmental Pollution, 157:592-600
Goergen, E., Chambers, J.C., Blank, R.	2009	Effects of Water & Nitrogen Availability on N Contribution by the Legume, <i>Lupinus argenteus</i> Pursh	Applied Soil Ecology, 3:200-208
Lavery, T.F., Rogers, C.M., Baumgardner, R., Mishoe, K.P.	2009	Intercomparison of Clean Air Status & Trends Network NO3 & HNO3 Meas. from Other Monitoring Networks	J. of Air & Waste Management Assoc, 59:214-226
Rao, L.E., Parker, D.R., Bytnerowicz, A., Allen, E.B.	2009	Nitrogen Mineralization Across an Atmospheric Nitrogen Deposition Gradient in S California Deserts	J. of Arid Environments, 10:920-930
Sickles, J.E., Shadwick, D.S., Kilaru, J.V., Grimm, J.W.	2009	Errors in Representing Regional Acid Deposition with Spatially Sparse Monitoring	Atmospheric Environment, 43:2855-2861
Tong, D.Q., Muller, N.Z., Kan, H., Mendelsohn, R.O.	2009	Using AQ Modeling to Study Source-Receptor Relationships Between NOx Emission & O3 Exposures over US	Environmental International, 35:1109-1117

Van Dingen, R., Dentener, F.J., Raes, F., Krol, M.C., Emberson, L., Cofala, J.	2009	The Global Impact of O3 on Agricultural Crop Yields Under Current & Future Air Quality Legislation	Atmospheric Environment, 43:604-618
Walsh, K.J., Milligan, M., Sherwell, J.	2009	Synoptic Evaluation of Regional PM2.5 Concentrations	Atmospheric Environment, 43:594-603
Beem, K.B. et al.	2010	Deposition of Reactive Nitrogen During the Rocky Mountain Airborne Nitrogen & Sulfur (RoMANS) Study	Environmental Pollution, 158:862-872
Bloomer, B.J., Vinnikov, K.Y., Dickerson, R.R.	2010	Changes in Seasonal & Diurnal Cycles of Ozone & Temperature in the Eastern US	Atmospheric Environment, 44:2543-2551
Bytnerowicz, A. et al.	2010	Effects of Combustion Emissions & Santa Ana Winds on Ambient O3 during Oct 2007 S CA Wildfires	Atmospheric Environment, 44:678-687
Civerolo, K., Hogrefe, C., Zalewsky, E., Hao, W., Sistla, G., Lynn, B., Rosenzweig, C., Kinney, P.L.	2010	Evaluation of an 18yr CMAQ Simulation: Seasonal variations & long-term temporal changes in SO4 & NO3	Atmospheric Environment, 44:3745-3752
Godowitch, J.M., Pouliot, G.A., Rao, S.T.	2010	Assessing Multiyear Changes in Modeled & Observed Urban NOx Conc from Dynamic Model Eval Perspective	Atmospheric Environment, 44:2894-2901
Liu, X., Zhang, Y., Olsen, K.M., Wang, W., Do, B.A., Bridgers, G.M.	2010	Responses of Future Air Qual to Emission Cntl Over NC, Part I: Model eval for current-yr simulations	Atmospheric Environment, 44:2443-2456
Pierce, T., Hogrefe, C., Rao, S.T., Porter, S., Ku, J.Y.	2010	Dynamic Evaluation of a Regional Air Quality Model: Assessing the emissions-induced weekly O3 cycle	Atmospheric Environment, 44:3583-3596
Zhang, Y., Liu, P., Liu, X.-H., Jacobson, Z., McMurry, P.H., Yu, F., Yu, S., Schere, K.L.	2010	A Comparative Study of Nucleation Parameterizations: 2. 3-D Model Application & Evaluation	J. Geophysical Research 115:D20213

Zhang, Y., Wen, X.Y., Jang, C.J.	2010	Simulating Chemistry-Aerosol-Cloud- Radiation-Climate Feedbacks over Continental US Using WRF/Chem	Atmospheric Environment, 44:3568-3582
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