

Christian Hogrefe, Research Physical Scientist, in EPA's National Exposure Research Laboratory

Computational Exposure Division

[Mailing Address](#)

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Area of Expertise: Christian Hogrefe's core expertise is in the application and evaluation of air quality modeling systems and the analysis of atmospheric measurements. Past and present research interests include the evaluation and intercomparison of air quality models on regional-to-hemispheric scales, the integration of air quality observations and long-term air quality model predictions for potential use in health impact studies, and the use of photochemical models for real-time air quality characterization.

Select Publications:

- Ran, L., Jon Pleim, R. Gilliam, C. Hogrefe, F. Binkowski, AND L. Band. Application and Evaluation of MODIS LAI, FPAR, and Albedo Products in the WRF/CMAQ System. Chapter 100, Air Pollution Modeling and its Application XXIV. Springer International Publishing AG, Cham (ZG), Switzerland, , 619-624, (2016).
- Gan, M., C. Hogrefe, R. Mathur, Jon Pleim, J. Xing, David-C Wong, R. Gilliam, G. Pouliot, AND C. Wei. Assessment of the effects of horizontal grid resolution on long-term air quality trends using coupled WRF-CMAQ simulations. ATMOSPHERIC ENVIRONMENT. Elsevier Science Ltd, New York, NY, 132:207-216, (2016).
- Mathur, R., J. Xing, D. Kang, S. Napelenok, C. Hogrefe, G. Sarwar, AND Jon Pleim. Characterizing the Influence of Hemispheric Transport on Regional Air Pollution. 10th International Conf. on Air Quality-Science & Application, Milan, ITALY, March 14 - 18, 2016.

View more research publications by [Christian Hogrefe](#).

Education:

- B.S. in Physics, University of Regensburg, Germany and University of Heidelberg, Germany, 1993/1994
- M.S. in Atmospheric Sciences, State University of New York at Albany, 1996
- Ph.D. in Atmospheric Sciences, State University of New York at Albany, 2000

Professional Experience:

- Research Physical Scientist, U.S. EPA, Research Triangle Park, NC, 2011- present

- Research Scientist 2, Bureau of Air Quality Analysis and Research, New York State Department of Environmental Conservation, Albany, NY, 2008 – 2011
- Air Pollution Meteorologist 3, Bureau of Air Quality Analysis and Research, New York State Department of Environmental Conservation, Albany, NY, 2000 – 2008
- Adjunct Research Associate, Atmospheric Sciences Research Center, State University of New York at Albany, Albany, NY, 2001 - 2011
- Research Scientist, Research Foundation of the State University of New York, Albany, NY, 2002 – 2007
- Postdoctoral Research Associate, Research Foundation of the State University of New York, Albany, NY, 2000 - 2001
- Research Assistant, Research Foundation of the State University of New York, Albany, NY, 1995 – 2000

Honors and Awards:

- Frank A. Chambers Excellence in Air Pollution Control Award (Air & Waste Management Association) 2014
- Best Reviewer Award (Journal of the Air & Waste Management Association) 2014
- Scientific and Technical Achievement Award (STAA) Level II, 2011; Honorable Mention, 2013