

**Dale P. Kaiser**

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**Education and Training**

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| 1984 | University of Maryland, College Park, Meteorology, M.S.                             |
| 1978 | State University of New York at Oswego, Secondary Education, Earth Sci. Conc., B.S. |

**Research and Professional Experience**

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| 2002-Present | Research Staff Member. Oak Ridge National Laboratory, Environmental Sciences Division, Carbon Dioxide Information Analysis Center. Compile, quality assure, and analyze regional instrumental climate data with recent emphasis on decadal-scale cloudiness changes over China, and temperature and snowfall changes over the U.S. Manage development of ORNL wind energy informatics systems. Develop and maintain metadata for DOE's Atmospheric Radiation Measurement (ARM) Program, ARM Archive. |
| 1993-2002    | Research Associate. Oak Ridge National Laboratory, Environmental Sciences Division, Carbon Dioxide Information Analysis Center.  |
| 1990-1993    | Research Associate. University of Tennessee, Knoxville. Research performed at ORNL's Carbon Dioxide Information Analysis Center.   |
| 1989-1990    | Senior Systems Analyst. SMSR Corp., Landover, Maryland.  |
| 1988-1989    | Senior Programmer. Satellite Research Laboratory, NOAA, Camp Springs, Maryland   |
| 1984-1988    | Programmer/Analyst. NASA Goddard Space Flight Center, Greenbelt, Maryland  |

**Publications**

1. Kaiser, D. P., and Y. Qian. 2010. Decreasing trends in surface-observed total cloud amount over China: Another effect of anthropogenic aerosol loading? *Geophys. Res. Lett.* (submitted).
2. Mao, J., X. Shi, L. Ma, D.P. Kaiser, Q. Li, and P.E. Thornton. 2010. Assessment of re-analysis daily extreme temperatures with China's homogenized historical dataset during 1979 to 2001 using Probability Density Functions. *J. Climate* (accepted).
3. Marino, G.P., and D.P. Kaiser. 2009. Reconstruction of false spring occurrence over the southeastern U.S., 1901–2007: Increasing risk of spring freeze damage? *U.S. Department of Energy Journal of Undergraduate Research*.
4. Gu, L., P. J. Hanson, W. M. Post, D. P. Kaiser, B. Yang, R. Nemani, S. G. Pallardy, and T. Myers. 2008. The 2007 eastern US spring freeze: Increased cold damage in a warming world? *Bioscience* 58(3), doi:10.1641/B580301.
5. Qian, Y., W. Wang, L. R. Leung, and D. P. Kaiser. 2007. Variability of solar radiation under cloud-free skies in China: The role of aerosols. *Geophys. Res. Lett.* 34, L12804, doi:10.1029/2006GL028800.
6. Qian, Y., D. P. Kaiser, L. R. Leung, and M. Xu. 2006. More frequent cloud-free sky and less surface solar radiation in China from 1955 to 2000. *Geophys. Res. Lett.* 33, L01812, doi:10.1029/2005GL024586.
7. Blasing, T. J., D. Scott, and D. Kaiser. 2003. Evidence for changes in a surface-air warming singularity in late winter over central North America. *Geophys. Res. Lett.* 30(9), 1452, doi:10.1029/2002GL016807.
8. Kaiser, D. P., and Y. Qian. 2002. Decreasing trends in sunshine duration over China for 1954–1998: Indication of increased haze pollution? *Geophys. Res. Lett.* 29(21), 2042, doi:10.1029/2002GL016057.
9. Folland, C., and T. Karl. 2001. *Observed Climate Variability and Change*, Chapter Two in *Climate Change 2001, The Scientific Basis*, Intergovernmental Panel on Climate Change, Cambridge University Press. (Invited contributor.)
10. Kaiser, D.P. 2000. Decreasing cloudiness over China: An updated analysis examining additional variables. *Geophys. Res. Lett.* 27(15):2193–2196.

11. Kaiser, D. P. 1998. Analysis of total cloud amount over China, 1951–1994. *Geophys. Res. Lett.* 25(19):3599–3602.
12. Shriner, D. S. et al. 1997. *North America*, Chapter Eight in Watson, R. T., M. C. Zinyowera, and R. H. Moss (eds.), *Regional Impacts of Climate Change, IPCC Special Report*, Cambridge University Press. (One of several lead authors of this chapter.)

### Synergistic Activities

1. Member of U.S. delegation: DOE-Chinese Academy of Science joint project on the "Study of the Greenhouse Effect"
2. Member of U.S. delegation: DOE-China Meteorological Administration joint project on the "Study of Regional Climate"
3. Data exchange coordinator: U.S.-Russia Agreement on Cooperation in the Field of Protection of the Environment and Natural Resources (Organized under the State Departments of U.S. and Russia) Working Group VIII: The Influence of Environmental Changes on Climate
4. American Meteorological Society, member; multiple times President of Smoky Mtn. Chapter of AMS

### Collaborators and Co-Editors

T.R. Karl, D.R. Easterling, T.C. Peterson, R.S. Vose, P.Ya. Groisman, M.J. Menne, C.N. Williams (NOAA/NCDC); Y.Qian, L.R. Leung, (PNNL); T. Boden, L. Gu, G. Palanisamy, J. Mao (ORNL); Y. Ding (China Meteor. Admin.); S. Tao (Chinese Acad. Sci.); A. Sterin, M. Shaimerdanov, V. Razuvayev (All-Russian Research Institute of Hydrometeorological Information-World Data Centre Obninsk, Russia); K. Vinnikov (Univ. Maryland); J. Hansen (NASA/GISS); P. Jones (CRU/Univ. East Anglia); J.K. Angell (NOAA/ARL); C.J. Hahn (Univ. Arizona); S.G. Warren (Univ. Washington); A. Robock (Rutgers Univ.)

### Graduate and Postdoctoral Advisors and Advisees

*Graduate Advisor:* Dr. Alan Robock (University of Maryland, College Park)