

*Biographical Sketch*  
CHARLES S. (CHARLIE) ZENDER

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**i. PROFESSIONAL PREPARATION**

Harvard University, Cambridge MA	Physics	B.A.	1990
University of Colorado at Boulder	Astrophys., Planetary, & Atmospheric Sci.	M.S.	1993
University of Colorado at Boulder	Astrophys., Planetary, & Atmospheric Sci.	Ph.D.	1996

**ii. APPOINTMENTS**

7/05– Associate Professor of Earth System Science, University of California, Irvine  
8/07–8/08 Visiting Researcher, Laboratoire de Glaciologie Géophysique de l'Environnement (LGGE), Grenoble, France  
3/00–2/06 Affiliate Scientist of the Climate and Global Dynamics (CGD) Division, National Center for Atmospheric Research (NCAR), Boulder, CO  
7/99–6/05 Assistant Professor of Earth System Science, University of California, Irvine  
7/98–6/99 Visiting Scientist in Atmospheric Chemistry and CGD Divisions, NCAR  
7/96–6/98 Postdoctoral Fellow, Advanced Studies Program, NCAR  
8/91–6/96 Graduate Research Assistant, University of Colorado at Boulder  
1/91–6/91 Visiting Faculty in Physical Sciences, College of the Atlantic, Bar Harbor, ME

**iii. (a). FIVE PUBLICATIONS RELATED TO PROPOSED TOPIC**

Flanner, M. G., **C. S. Zender**, P. G. Hess, N. M. Mahowald, T. H. Painter, V. Ramanathan, and P. J. Rasch (2009), Springtime Warming and Reduced Snow Cover from Carbonaceous Particles, *Atmos. Chem. Phys.*, **9**(7), 2481–2497, <http://www.atmos-chem-phys.net/9/2481/2009>. ([PDF](#))

Capps, S. B., and **C. S. Zender** (2008), Observed and CAM3 GCM Sea Surface Wind Speed Distributions: Characterization, Comparison, and Bias Reduction, *J. Climate*, **21**(24), 6569–6585, doi:10.1175/2008JCLI2374.1. ([PDF](#))

Flanner, M. G., **C. S. Zender**, J. T. Randerson, and P. J. Rasch (2006), Present-Day Climate Forcing and Response from Black Carbon in Snow, *J. Geophys. Res.*, **112**(D11), D11202, doi:10.1029/2006JD008003. ([PDF](#))

**Zender, C. S.**, H. Bian, and D. Newman (2003), Mineral Dust Entrainment And Deposition (DEAD) model: Description and 1990s dust climatology, *J. Geophys. Res.*, **108**(D14), 4416, doi:10.1029/2002JD002775. ([PDF](#))

**Zender, C. S.**, and J. T. Kiehl (1997), Sensitivity of climate simulations to radiative effects of tropical anvil structure, *J. Geophys. Res.*, **102**(D20), 23793–23803. ([PDF](#))