

Stanley Cobb Solomon

Education

Ph.D., Atmospheric Science, The University of Michigan, 1987
M.S., Atmospheric Science, The University of Michigan, 1982
A.B., Psychology and Social Relations, Harvard College, 1975

Appointments

Scientist III, High Altitude Observatory, National Center for Atmospheric Research 2000–
Research Associate, Laboratory for Atmospheric and Space Physics, CU, 1990–2000
Visiting Scientist, High Altitude Observatory, National Center for Atmos. Research, 1987–89

Selected Professional Activities

Secretary for Aeronomy, SPA section, American Geophysical Union, 2002–2004
Organizing Committee and Proceedings Editor, TIGER conferences, 1998–2004
Student Awards and Scarf Award Committee, SPA section, AGU, 1998–2000
NASA Geospace Multiprobes Science Definition Team, 1996–1998
Science Working Group, NASA TIMED Mission, 1993–present
EUV Working Group, Solar Electromagnetic Radiation Study, 1990–1999

Selected Honors and Awards

Alumni Society Merit Award, The University of Michigan, 2000
Editor's Citation for Excellence in Refereeing, Journal of Geophysical Research, 1995
Outstanding Service Award, American Geophysical Union, 1991
Distinguished Achievement Award, Atmospheric Science, The University of Michigan, 1985

Selected Publications

Solomon, S. C., P. B. Hays, and V. J. Abreu, Tomographic inversion of satellite photometry (1, 2), *Appl. Opt.*, 23, 3409, 1984, and *Appl. Opt.*, 24, 4134, 1985.
Solomon, S. C., P. B. Hays, and V. J. Abreu, The Auroral 6300Å emission: Observations and modeling, *J. Geophys. Res.*, 93, 9867, 1988.
Solomon, S. C., and V. J. Abreu, The 630 nm dayglow, *J. Geophys. Res.*, 94, 6817, 1989.
Solomon, S. C., Auroral excitation of the N₂ 2P(0,0) and VK(0,9) bands, *J. Geophys. Res.*, 94, 17215, 1989.
Solomon, S. C., Auroral electron transport using the Monte Carlo method, *Geophys. Res. Lett.*, 20, 185, 1993.
Solomon, S. C., C. A. Barth, and S. M. Bailey, Auroral production of nitric oxide measured by the SNOE satellite, *Geophys. Res. Lett.*, 26, 1259, 1999.
Solomon, S. C., Auroral particle transport using Monte Carlo and hybrid methods. *J. Geophys. Res.*, 106, 107, 2001.
Solomon, S. C., S. M. Bailey, and T. N. Woods, Effect of solar soft X-rays on the lower ionosphere, *Geophys. Res. Lett.*, 28, 11, 2001.
Luhmann, J. G., S. C. Solomon, J. A. Linker, J. G. Lyon, Z. Mikic, D. Odstrcil, W. Wang, and M. Wiltberger, Coupled model simulation of a Sun-to-Earth space weather event, *J. Atmos. Solar-Terr. Phys.*, 66, 1243, 2004.
Solomon, S. C., and L. Qian, Solar extreme-ultraviolet irradiance for general circulation models, *J. Geophys. Res.*, submitted, 2005.