

Alan Geoffrey Burns

Education

University of Canterbury	B. Sc. (hons)	1978
University of Canterbury	M. Sc.	1980
University of Canterbury	Ph. D.	1986

Appointments

Project Scientist II	National Center for Atmospheric Research, September 2000
Associate Research Scientist	University of Michigan. September 1994.
Assistant Research Scientist	University of Michigan. September 1990.
Research Investigator	University of Michigan. October 1988.
Postdoctoral Fellow	University of Michigan. August 1986.

Selected Professional Activities

Associate Editor, *J. Atmos. Sol.-Terr. Phys.*

Editor, *Adv. Space Res.*, 1999

NASA Proposal Review Panels, 1992, 1998, 2000, 2002

Proposal Reviewer: NSF, NASA, AFOSR

Referee, *J. Geophys. Res.*, *Geophys. Res. Lett.*, *J. Atmos. Sol.-Terr. Phys.*, *Annales Geophys.*

Co-Chair of three Ph. D. graduates: Drs. Wei Deng, Wenbin Wang and Fang Li

Thesis committee, Dr. Robert Raskin

Supervised 3 Undergraduate Research Opportunities Program minority students, Univ. Michigan

Selected Publications

Burns, A. G., T. L. Killeen and R. G. Roble, A simulation of thermospheric composition changes during an impulse storm, *J. Geophys. Res.*, *96*, 14153-14167, 1991.

Burns, A. G. and T. L. Killeen, The equatorial neutral thermospheric response to geomagnetic forcing, *Geophys. Res. Lett.*, *19*, 977-981, 1992.

Burns, A. G., T. L. Killeen and R. G. Roble, A simulation of the thermospheric composition changes seen during a geomagnetic storm, *Adv. Space Res.*, *12* (10), 253-256, 1992.

Burns, A. G., T. L. Killeen and R. G. Roble, Thermospheric heating away from the auroral oval during geomagnetic storms, *Can. J. Phys.*, *70*, 544-552, 1992.

Burns, A. G., T. L. Killeen, G. R. Carignan and R. G. Roble, Large enhancements in the O/N₂ ratio in the evening sector of the winter hemisphere during geomagnetic storms, *J. Geophys. Res.*, *100*, No. A8, 14,661, 1995.

Burns, A. G., T. L. Killeen, W. Deng, G. R. Carignan, and R. G. Roble, Geomagnetic storm effects in the low-middle latitude upper thermosphere, *J. Geophys. Res.*, *100*, No. A8, 14,673, 1995.

Wang, W., T. L. Killeen, A. G. Burns, and R. G. Roble, A high-resolution, three-dimensional, time dependent, nested grid model of the coupled thermosphere-ionosphere, *J. Atmos. Sol.-Terr. Phys.*, *61*, 385-397, 1999.

Burns, A. G., T. L. Killeen, W. Wang, and R. G. Roble, The solar-cycle-dependent response of the thermosphere to geomagnetic storms, *J. Atmos. Sol. Terr. Phys.*, *66*, 1-14, 2004.

Burns, A. G., W. Wang, T. L. Killeen and S. C. Solomon, A "tongue" of neutral composition, *J. Atmos. Sol.-Terr. Phys.*, *66*, 1457-1468, 2004.