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Expertise

- Radar studies of gravity waves, planetary waves and tides.
- Satellite studies of atmospheric dynamics.
- Signal processing and data visualization.

EDUCATION

- 1987 Ph.D., Electrical Engineering, Cornell University.
- 1977 B.S., Electrical Engineering, University of Arizona.

APPOINTMENTS

- 1997–present, Research Scientist, Northwest Research Associates, Colorado Associates Division.
- 1996, Visiting Scientist, Kyoto University, Japan.
- 1993–1996, Research Assistant, University of Colorado.
- 1990–1992, Program Manager, Defense Nuclear Agency.
- 1988–1990, Scientific Analyst, Strategic Analysis, Inc.
- 1986–1988, Postdoctoral Research Associate, Los Alamos National Laboratory.

RECENT PUBLICATIONS

- Riggin, D. M., H.-L. Liu, R. S. Lieberman, R. G. Roble, J. M. Russell III, C. J. Mertens, M. G. Mlynczak, D. Pancheva, S. J. Franke, Y. Murayama, A. H. Manson, C. E. Meek, R. A. Vincent, Observations of the 5-day wave in the mesosphere and lower thermosphere, *J. Atmos. Solar-Terr. Phys.*, 68, 323-339, 2006.
- R. S. Lieberman and D. M. Riggin, R. R. Garcia and Q. Wu, Observations of intermediate-scale diurnal waves in the equatorial mesosphere and lower thermosphere, submitted to *J. Geophys. Res.*, 2005.

Janches, D., D. C. Fritts, D. M. Riggin, M. P. Sulzer, and S. Gonzales, Gravity waves and momentum fluxes in the MLT using 430 MHz dual-beam measurements at Arecibo: 1. Measurements, methods, and gravity waves, submitted to *J. Geophys. Res.*, 2005.

Fritts, D. C., D. Janches, D. M. Riggin, Robert G. Stockwell M. P. Sulzer, and S. Gonzalez Gravity waves and momentum fluxes in the MLT using 430 MHz dual-beam measurements at Arecibo: 2. Frequency spectra, momentum fluxes, and variability, submitted to *J. Geophys. Res.*, 2005.

Riggin, D. M., R. S. Lieberman, R. S. Vincent, A. H. Manson, C. E. Meek, Yu. I. Portnyagin, T. Nakamura, and T. Tsuda, The two-day wave during the boreal summer of 1994, *J. Geophys. Res.*, 109(D08110), doi:10.1029/2003JD004493, 2004.

Riggin, D. M., E. Kudeki, and M. Sarango, Tropospheric and stratospheric momentum flux measurements from radar wind data collected at Jicamarca, *J. Atmos. Solar-Terr. Phys.*, 66, 277-283, 2004.

PROFESSIONAL ASSOCIATIONS AND HONORS

- American Geophysical Union
- Antarctic Service Medal

RECENT COLLABORATORS

Ruth Lieberman, Han-Li Liu, Damian Murphy, Alan Manson, Nikolai Gavrilov, Qian Wu.

GRADUATE ADVISOR

- Ph.D., Donald Farley, Cornell University.