

Judith T. Karpen

BS Physics, University of Michigan, 1973; PhD Astronomy, University of Maryland, 1980

Biography

Dr. Karpen has been a research astrophysicist in the Space Weather Laboratory, Heliophysics Division, since July 2008. Her primary research interests include analytical and numerical modeling of dynamic solar and heliospheric phenomena, and applications of plasma physics and magnetohydrodynamics to solar and heliospheric activity. Her current research is focused on solar prominences, coronal mass ejections/eruptive flares, and magnetic reconnection. Dr. Karpen has been a Principal or Co-Investigator in research sponsored by NASA's Heliophysics Theory Program, Heliophysics SR&T program, Heliophysics Guest Investigator programs, LWS TR&T program, and High Performance Computing and Communications Program. In addition she has served as a Principal or Co-Investigator on numerous grants of computer time under the DoD High Performance Computing Modernization and the NASA High End Computing programs. Currently she is the Chief of the Space Weather Laboratory.

From October 1980 until September 1982, Dr. Karpen was an NRL-NRC Postdoctoral Research Associate with the Solar Physics Branch, Space Science Division, Naval Research Laboratory (NRL). From October 1982 until September 1984, she was a staff scientist with Berkeley Research Associates, working at the Laboratory for Computational Physics and Fluid Dynamics, NRL. Dr. Karpen was a research physicist in the Solar-Terrestrial Relationships Branch, Space Science Division, NRL, from October 1984 until July 2008.

Dr. Karpen is a member of the American Astronomical Society, Solar Physics Division; the International Astronomical Union; and the American Geophysical Union. She has served on numerous NASA, NSF, and NAS advisory/review committees; AAS and AAS/SPD committees and elected positions; and as a reviewer for journals including ApJ, A&A, Nature, and Solar Physics.

Selected Bibliography

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