

## Science at Recent Annular and Total Eclipses

Jay M. Pasachoff

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Jay M. Pasachoff is Field Memorial Professor of Astronomy at Williams College, where he teaches the astronomy survey courses as well as advanced seminars and works with undergraduate students on a variety of astronomical research projects, including one studying the atmosphere of Pluto. He is also Director of the Hopkins Observatory and Chair of the Astronomy Department there. Pasachoff received the 2003 Education

Prize of the American Astronomical Society and the 2012 Janssen Prize of the Société Astronomique de France. He is an honorary member of the Royal Astronomical Society of Canada.

Pasachoff has observed 59 solar eclipses. He is Chair of the Working Group on Eclipses of the International Astronomical Union. His research is currently sponsored by the National Science Foundation, NASA, and the National Geographic Society. His studies of the sun include ground-based and space-based observations of the solar corona and chromosphere. In addition, he is collaborating with colleagues to observe occultations of stars by Pluto, Charon, and other objects in the outer parts of the solar system. With Glenn Schneider, he is studying transits of Venus and Mercury. Further, he works in radio astronomy of the interstellar medium, concentrating on deuterium and its cosmological consequences.

At the time of the fateful General Assembly of the International Astronomical Union at which Pluto was placed in a new category called dwarf planet, he was president of its Commission on Education and Development. He is coeditor of *Teaching and Learning Astronomy : Effective Strategies for Educators Worldwide* (2005).

Pasachoff is coauthor of *The Cosmos : Astronomy in the New Millennium*, 4th Edition (2014), and author of the *Peterson Field Guide to the Stars and Planets*, 4th edition (2015 printing with expanded 2017 coverage including maps from Fred Espenak, Michael Zeiler, and Jay Anderson, in press, 2015), as well as author of *Astronomy : From the Earth to the Universe*, 6th edition (2002). His books about the sun include *Nearest Star : The Exciting Science of Our Sun*, 2nd edition (2014) and *The Solar Corona*, 2nd edition (2010, both with Leon Golub as coauthor; and *The Complete Idiot's Guide to the Sun*. See

<http://www.solarcorona.com/>. Pasachoff and Jay Anderson are coauthors, with John Day, for the forthcoming *Peterson Field Guide to Weather* (2015).