IN THIS SECTION:

PEOPLE

Complete Listing

Faculty

Adjunct Faculty

Emeritus Faculty

Administrative Staff

Research Staff

Graduate Students

Advisory Council

Cornellians of Note

DANIEL WILKS

Biography

My work involves application of statistical methods to quantifying and dealing with uncertainty in meteorological and climatological data and forecasts, in a variety of contexts.

Daniel Wilks

Dept: Earth and Atmospheric Sciences

Title: Professor

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return to list

Research Interests

Much of my research during the past 5 years has related to forecast evaluation, ensemble forecasting, or both. Other areas in which I have worked are in the use and economic value of forecasts in formal decision-making models, "weather generators" (time-domain time series models for weather data), interpretation and use of long lead ("climate") forecasts, and studies of climate-change impacts.

Teaching Interests

My courses are: EAS 435 (Statistical Methods in Meteorology and Climatology), Fall terms; EAS 666 (Applied Multivariate Statistics), Spring terms, odd-numbered years; EAS 334 (Microclimatology) Spring terms, even-numbered years; and EAS 296 (Forecast Competition) Spring and Fall terms. Also, I am author of the textbook Statistical Methods in the Atmospheric Sciences.

Selected Publications

- Wilks, D.S., C.J. Neumann, and M.B. Lawrence, 2009. Statistical extension of the National Hurricane Center 5-day forecasts. Weather and Forecasting, 24: 1052-1063.
- Wilks, D.S., 2009, Extending logistic regression to provide full-probability-distribution MOS forecasts. Meteorological Applications, 16: 361-368.

- A gridded multisite weather generator and synchronization to observed weather data. Water Resources Research, in press.
- Wilks, D.S., 2008. Effects of stochastic parameterisations in conceptual climate models. Philosophical Transactions of the Royal Society A, in press.
- Wilks, D.S., 2008. Improved statistical seasonal forecasts using extended training data. International Journal of Climatology, 28: 1589-1598.

Websites

- http://www.eas.cornell.edu
- Errata - Statistical Methods in the Atmospheric Sciences - I appreciate hearing about any additional errors that you may find.

Education

- B Sc. Uiversity of California, Berkeley, 1975
- M Sc. Uiversity of California, Berkeley, 1977
- Ph D. Oregon State University, 1986