

DAVID CHANGNON

August 16, 2005

WORK ADDRESS:

Department of Geography
Northern Illinois University
De Kalb, IL 60115

EDUCATION:

B.S. (General Engineering) University of Illinois (1984)
M.S. (Atmospheric Sciences-Climatology) Colorado State University (1986)
Ph.D. (Atmospheric Sciences-Climatology) Colorado State University (1991)

EMPLOYMENT:

Professor, Department of Geography, Northern Illinois University (2005-present)
Associate Professor, Department of Geography, Northern Illinois University (1998-2005)
Assistant Professor, Department of Geography, Northern Illinois University (1992 - 1998)
Regional Research Climatologist, Southeast Regional Climate Center, Columbia, SC (1990 - 1992)

RESEARCH GRANTS:

Midwestern Climate Center, submitted July 1993 - funded for period July 1994 - June 1995 at \$16,825. "Anticipating Hydrologic Droughts Using Surface Cyclone Characteristics: Applications for Midwestern Water Managers."

National Science Foundation, Faculty Early Career Development Program (CAREER), funded for period August 1995 - August 1999 at \$83,593. "Development of climate relationship-decision models for environmental and economic applications."

National Oceanic and Atmospheric Administration and Midwestern Climate Center, funded for period September 1999 through August 2002 at \$37,597. "Applications of Climate Information to Solve Weather-Related Problems in a Changing Climate."

National Science Foundation, Equipment Grant, funded for period October 1999 to September 2000 at \$19,950. "Upgrading and Expanding Technical Resources for the NIU Meteorology Program."

National Science Foundation, funded for period March 2004 through February 2006 at \$100,000. "Changes in the Frequency of Extreme Warm Season Surface Dewpoints in the Midwestern U.S.: Implications for Weather-related Hazards." Co-P.I. with Dr. Mace Bentley (NIU).

MEMBERSHIP TO SCHOLARLY SOCIETIES:

American Meteorological Society (national and local chapters)
Sigma Xi, The Scientific Research Society - NIU and National Chapter

NATIONAL PROFESSIONAL ACTIVITIES:

National Research Council Panel on "Estimating and Communicating Uncertainty," 2005-06.
Reviewer, Manuscripts for Water Resources Bulletin, Physical Geography, Int. J. of Climatology, J. of Applied Meteorology, J. of Climate, and Bulletin of American Meteorological Soc.
American Meteorological Society's Committee on Applied Climatology (1995-1998), Climate Variations (2001-2004), and Societal Impacts (2003-2006).

PUBLICATIONS:

Selected Refereed Articles:

- Changnon, D., 1998: Design and test of a “hands-on” applied climate course in an undergraduate meteorology program. Bull. Amer. Meteor. Soc., 79, 79-84.
- Changnon, S.A. and D. Changnon, 1999: Record high losses for weather disasters in the United States during the 1990s: How excessive and why? Natural Hazards, 13, 287-300.
- Changnon, D., T. Creech, N. Marsili, W. Murrell, and M. Saxinger, 1999: Interactions with a weather-sensitive decision-maker: A case study incorporating ENSO information into a strategy for purchasing natural gas. Bull. Amer. Meteor. Soc., 80, 1117-1125.
- Changnon, D., S.A. Changnon, and S.S. Changnon, 2000: A method for estimating crop hail losses in uninsured periods and regions. J. Applied Meteorology, 40, 84-91.
- Changnon, S.A., and D. Changnon, 2001: Long-term fluctuations in thunderstorm activity in the United States. Climatic Change, 50, 489-503.
- Changnon, D., J. Sparks, A. Burgoyne, C. Hahn, and R. Seymour, 2002: Enhancing swimming pool management decisions with climate information. Meteorological Applications, 9, 461-468.
- Sparks, J., D. Changnon, and J. Starke, 2002: Changes in the frequency of extreme warm-season surface dew points in northeastern Illinois: Implications for cooling-system design and operation. J. Applied Meteorology, 41, 890-898.
- Changnon, D., M. Sandstrom, and C. Schaffer, 2003: Relating changes in agricultural practices to increasing dew points in extreme Chicago heat waves. Climate Research, 24, 243-254.
- Changnon, D., 2004: Improving outreach in atmospheric sciences: Assessment of users of climate products. Bull. Amer. Meteor. Soc., 85, 601-606.

DIRECTION OF THESES AND DISSERTATIONS OR EQUIVALENTS:

- Director of Dawn Davis' (1994), Julie Parrish's (1995), Scot Hamilton's (1997), Shawn Blobaum's (1998), Tami Creech's (1999), Michelle Buhta's (2000), Mike Ritsche's (2001), Russ Bigley's (2003), and Mike Sandstrom's (2005) completed Masters Theses.