

Biographical Sketch: Richard Grotjahn

Department of L.A.W.R, University of California
One Shields Avenue
Davis, CA 95616

(530) 752-2246; fax: 752-1793
e-mail grotjahn@ucdavis.edu
website: <http://grotjahn.ucdavis.edu/>

Education:

University of Washington, Seattle, Washington: Atmospheric Science (B.S. cum laude, 1973)
Florida State University, Tallahassee, Florida: Meteorology (M.S. 1975; Ph.D. 1979)

Prior Work Experience:

Professor, UCD 7/92-6/12, Upper Level Professor, 7/12-present
Visiting Scientist, LASG (Beijing, China) 5/10-6/10
Visiting Scientist, NCAR CGD. (Boulder, CO) 10/94-4/95, and 01/02-06/02
Associate Professor, UCD 7/85-6/92
Visiting Scientist, BMRC forecast model development group (Melbourne, Australia) 9/87-8/88
Assistant Professor, UCD 1/82-6/85
Visiting Fellow, CIRES (Boulder, CO) 7/81-12/81
Postdoctoral Fellow, NCAR Advanced Study Prog. 6/79-6/81
Graduate Research Assistant - FSU: 8/73-5/79

Present Position:

Professor (upper level) of Atmospheric Science and Climate Dynamicist in the U.C. Agricultural Experiment Station, Dept of Land, Air, and Water Resources, University of California, Davis.

Professional Collaborations:

PI collaborators (alphabetical): W. Bourke (BMRC, Australia); G. Branstator (NCAR, USA); F. D'Andrea (LMD, France), K. Fraedrich (FUB, Germany); J. Frederiksen (CSIRO, Australia); Jianping Li (LASG, China); Richard Swinbank (UKMO, UK) J. Tribbia (NCAR, USA); Hans Volkert (DLR, IPA, Germany) Guoxiong Wu (LASG, China) PI's degree advisors: J. O'Brien (FSU, USA) and C. Leith (LLNL, USA)
PI's former students (Alphabetical, LKA): B. Bachmann (USNavy, CA), C. Castello (Google, CA), M. Chen (Rutgers Univ., NJ); G. Faure* (Meteo-France, Reunion Is.); D. Hodyss (NPGS, CA); S. Lai (SSA Inc., MD); M. Osman (NCSU, NC), R. Pedersen (Quantum Consulting, CA); A. Valade (LSCE, France); C. Wang (Hewlett-Packard, CA). (*U.S. research project supervisor)

Professional Affiliations/Activities:

American Meteorological Society (member: 1974-present);
Community Alliance with Family Farmers; Owner of: **Rich Fields Farm** (Davis CA)

Publications: Refereed Pubs: 55+; Reports and Minor Publications: 35+; Computer Films: 27

5 Recent refereed publications relevant to proposal

Grotjahn, R., and G. Faure. 2008: Composite Predictor Maps of Extraordinary Weather Events in the Sacramento California Region. *Wea. and Forecasting*. **23**: 313-335.

doi:10.1175/2007WAF2006055.1

Grotjahn, R., 2011. Identifying extreme hottest days from large scale upper air data: a pilot scheme to find California Central Valley summertime maximum surface temperatures *Climate Dyn.*, **37**:587–604 DOI 10.1007/s00382-011-0999-z

Grotjahn, R., 2013. Ability of CCSM4 to simulate California extreme heat conditions from evaluating simulations of the associated large scale upper air pattern *Climate Dyn.* **41**, 1187-1197. DOI: 10.1007/s00382-013-1668-1

Katz, R, Grotjahn, R., 2014. Statistical methods for relating temperature extremes to large-scale meteorological patterns. (US CLIVAR) *Variations* 12 (1): 4-7.

Grotjahn, R, 2015. Western North American extreme heat, associated large scale synoptic-dynamics, and performance by a climate model. In: *Dynamics and Predictability of Global and Regional High-Impact Weather and Climate Events*, Cambridge Univ. Press.

10 Recent “Synergistic Activities” related to agriculture or extremes

1. Member & lead author for Chapter 6: Agriculture of The National Climate Assessment (2013)
2. Member of US CLIVAR Predictability, Predictions, and Applications Interface (2010-2012)
3. Chair: US CLIVAR Working Group on Extremes (Chair, 2011-present)
4. Chair, organizing committee, US CLIVAR workshop on: Analyses, Dynamics, and Modeling of Large Scale Meteorological Patterns Associated with Extreme Temperature and Precipitation Events, Berkeley (8/2013)
5. Member, organizing committee for the US CLIVAR/NCAR ASP Researcher Colloquium: Statistical Assessment of Extreme Weather Phenomena under Climate Change, Boulder (6/2011)
6. International Commission on Dynamic Meteorology, IAMAS (member: 2005-present, Secretary: 2011-2015, co-convener of extremes sessions: 2007, 2009, 2011, 2013, 2015)
7. co-Editor of the book: Dynamics and Predictability of Global and Regional High-Impact Weather and Climate Events, Cambridge Univ. Press.
8. Author, ‘Extremes’ chapter in multiple-award winning book: *The Encyclopedia of Weather and Climate Change*. (2012; UC Press)
9. Member of Advisory Board for the Canadian Network for Regional Climate and Weather Processes (5/2014-present)
10. Author of >100 web pages on: extreme weather, course materials, agricultural information. Instructor of course: Severe and Unusual Weather.