

**PETER T. SOULE'**  
**Curriculum vitae - February 2006**

**EDUCATION:**

- Ph.D., 1989            Geography. University of Georgia, Athens, Georgia.  
Dissertation: "Spatial and Temporal Patterns of  
Multiple Drought Types."
- M.A., 1984            Geography. Appalachian State University, Boone, North  
Carolina. Thesis: "Topoclimatic Influences on Heating  
Degree Days in Complex Terrain."
- B.A., 1980            Geography. Florida Atlantic University, Boca Raton,  
Florida.

**PROFESSIONAL EXPERIENCE:**

- 2005:                    Graduate Program Coordinator, Department of Geography and  
Planning, Appalachian State University (Spring Semester).
- 2000-current:        Professor. Department of Geography and Planning,  
Appalachian State University.
- 2000-2002:            Graduate Program Coordinator. Department of  
Geography and Planning, Appalachian State University.
- 1996-2000:            Associate Professor. Department of Geography and  
Planning, Appalachian State University.
- 1993-1996:            Assistant Professor. Department of Geography and  
Planning, Appalachian State University.
- 1989-1993:            Assistant Professor. Department of Geography,  
University of Alabama.
- 1987-1989:            Research Assistant. Department of Geography,  
University of Georgia.
- 1987-1988:            Evening Classes Instructor. University of Georgia.
- 1985-1987:            Transportation Planning Assistant, Athens-Clarke  
County Planning Commission, Athens, Georgia.
- 1985-1987:            TA. Department of Geography, University of  
Georgia.
- 1982-1984:            TA. Department of Community Planning and  
Geography, Appalachian State University.

**REFEREED PUBLICATIONS (Journals):**

P. T. Soulé and P. A. Knapp. "Radial Growth Rate Increases in Naturally-occurring Ponderosa Pine Trees: a Late 20<sup>th</sup> Century CO2 Fertilization Effect? *New Phytologist* (2006) in-press.

P. T. Soulé. "A Comparison of 30-yr Climatic Normals for the Southeastern United States." *Southeastern Geographer*. V. 45(2005): 16-24.

P. A. Knapp and P. T. Soulé. "Impacts of an Early Season Freeze Event in the Interior Pacific Northwest (October 30<sup>th</sup>-November 3<sup>rd</sup>, 2002) on Western Juniper Woodlands. *Journal of Applied Meteorology* V. 44(2005): 1152-1158.

P. T. Soulé, P. A. Knapp, and H. D. Grissino-Mayer. "Human Agency, Environmental Drivers, and Western Juniper Establishment During the Late Holocene." *Ecological Applications*. V. 14 (2004):96-112.

P. A. Knapp, P. T. Soulé, and H. D. Grissino-Mayer. "Occurrence of Sustained Droughts in the Interior Pacific Northwest (AD 1733-1980) Inferred from Tree-Ring Data." *Journal of Climate*. V. 17 (2004): 140-150.

P. T. Soulé, P. A. Knapp, and H. D. Grissino-Mayer. Comparative Rates of Western Juniper Afforestation in South-Central Oregon and the Role of Anthropogenic Disturbance. *The Professional Geographer*. V. 55 (2003): 43-55.

P. A. Knapp, H. D. Grissino-Mayer, and P. T. Soulé. "Extreme Climate Signature Years and Climatic Boundaries in the Interior Pacific Northwest" *Quaternary Research* V. 58 (2002): 226-233.

P. A. Knapp, P. T. Soulé, and H. D. Grissino-Mayer. "Detecting Regional Effects of Increased Atmospheric CO2 on Growth Rates of Western Juniper." *Global Change Biology*. V. 7 (2001): 903-917.

P. A. Knapp, P. T. Soulé, and H. D. Grissino-Mayer. "Post-drought Growth Response of Western Juniper (*Juniperus occidentalis* var. *occidentalis*) in Central Oregon. *Geophysical Research Letters*. V. 28 (2001): 2657-2660.

P. T. Soulé, and P. A. Knapp. "*Juniperus Occidentalis* (Western Juniper) Establishment History on Two Minimally Disturbed Research Natural Areas in Central Oregon." *Western North American Naturalist*. V. 60 (2000): 26-33.

J. L. DeHart and P. T. Soulé,. "Does I = PAT Work in Local Places?" *The Professional Geographer*. V. 52 (2000): 1-10.

P. T. Soulé, and P. A. Knapp. "Western Juniper (*Juniperus occidentalis*) Expansion on Adjacent Disturbed and Near-relict Sites in Central Oregon." *Journal of Range Management*. V 52 (1999): 525-533.

P. A. Knapp and P. T. Soulé,. "Geographical Distribution of an 18th Century Heart Rot Outbreak in Western Juniper (*Juniperus occidentalis* ssp. *occidentalis* Hook.)." *Journal of Arid Environments*. V. 41 (1999): 247-256.

J. R. Anzelmo and P. T. Soulé,. "Relationships Between Mid-tropospheric Flow Indices and January Surface Precipitation in the Contiguous United States." *Southeastern Geographer*. V. 39 (1999): 75-85.

P. T. Soulé, and J. L. DeHart. "Assessing IPAT Using Production- and Consumption-based Measures of I." *Social Science Quarterly*. V. 79 (1998): 754-765.

P. T. Soulé,. "Some Spatial Aspects of Southeastern United States Climatology." *Journal of Geography*. V. 97 (1998): 142-150.

P. T. Soulé,. "The Comfort Day Index and its Use as a Measure of Temperature Stress in the Southeastern United States." *Southeastern Geographer*. V. 38 (1998): 142-149.

P. A. Knapp and P. T. Soulé,. "Recent *Juniperus occidentalis* (Western Juniper) Expansion on a Protected Site in Central Oregon." *Global Change Biology*. V. 4 (1998): 347-357.

P. T. Soulé, and P. A. Knapp. "The Influence of Vegetation Removal by Western Harvester Ants (*Pogonomyrmex owyheei*) in a Relict Area of Sagebrush-steppe in Central Oregon." *The American Midland Naturalist*. V. 136 (1996): 336-345.

P. A. Knapp and P. T. Soulé,. "Vegetation Change and the Role of CO<sub>2</sub> Enrichment on a Relict Site in Central Oregon: 1960-1994". *Annals of the Association of American Geographers*. V. 86 (1996): 387-411.

P. T. Soulé, and P. A. Knapp. "Pogonomyrmex owyheei Nest Site Density and Size on a Minimally Impacted Site in Central Oregon." *Great Basin Naturalist*. V. 56 (1996):162-166.

J. C. Acker and P. T. Soulé,. "Temporal Characteristics of Pennsylvania Snowfall: 1950-51 Through 1989-90." *Physical Geography*. V. 16 (1995): 188-204.

- P. T. Soulé, and P. W. Suckling. "Variations in Heating and Cooling Degree Days in the South-eastern United States, 1960-1989." *International Journal of Climatology*. V. 15 (1995): 355-367.
- P. T. Soulé,. "Drought Evolution Patterns in the U.S.A. During Great Plains-centered Droughts." *Great Plains Research*. V. 5 (1995): 115-135.
- P. T. Soulé, and Yin, Zhi-Yong. "Short- to Long-term Trends in Hydrologic Drought Conditions in the Contiguous United States." *Climate Research*. V. 5 (1995): 149-157.
- P. T. Soulé,. "Hydrologic Drought in the Contiguous United States, 1900-1989: Spatial Patterns and Multiple Comparison of Means." *Geophysical Research Letters*. V. 20 (1993): 2367-2370.
- J. B. Bounds and P. T. Soulé,. "Aspects of the Tornado Climatology of Alabama and the Florida Panhandle, 1962-1986." *Southeastern Geographer*. V. 33 (1993): 172-193.
- G. A. Wiggins and P. T. Soulé,. "Environmental and Topographic Factors Affecting Male 'Middle-of-the-pack' Duathlon Performance." *Geographical Bulletin*. V. 35 (1993): 86-97.
- P. T. Soulé, and G. A. Wiggins. "Effects of Race-day Weather and Topographic Severity on Performance in Duathlon Races: Inter-race Comparisons from the Pacific Northwest." *Northwest Science* V. 67 (1993): 262-272.
- P. T. Soulé,. "Spatial Patterns and Teleconnections of Utah-based Droughts in the Contiguous United States." *Journal of Arid Environments*. V. 24 (1993): 217-229.
- P. T. Soulé,. "Spatial Patterns of Frequency and Duration for Near-Normal Climatic Events in the Contiguous USA." *Climate Research*. V. 2 (1992): 81-89.
- P. T. Soulé,, V. Meentemeyer, and W. Bland. "Temporal Trends of Mean and Extreme Wind Chill in Georgia, 1961-1990." *Southeastern Geographer*. V. 32 (1992): 97-112.
- P. T. Soulé,. "Spatial Patterns of Average Southeastern-based Droughts in the Contiguous United States." *Physical Geography*. V. 13 (1992): 225-239.
- G. A. Wiggins and P. T. Soulé,. "The Effects of Weather and Course Topography on Female Duathlon Performance." *Sport Place International*. V. 6(1992): 15-28.
- P. T. Soulé,. "Spatial Patterns of Drought Frequency and

Duration in the Contiguous USA Based on Multiple Drought Event Definitions." *International Journal of Climatology*. V. 12(1992): 11-24.

P. T. Soulé,. "Concurrent and Lagged Relationships Among Various Drought Indices in the United States." *MAUSAM: Indian Journal of Meteorology, Hydrology and Geophysics*. V. 43(January 1992): 34-50.

P. T. Soulé, and T. B. Pugh. "A Comparison of Nocturnal Heat Island Observations at Tuscaloosa, Alabama and Athens, Georgia." *The Journal of the Alabama Academy of Science*. V. 63(October 1991): 226-238.

P. T. Soulé,. "Spatial Patterns of Multiple Drought Types in the Contiguous United States: a Seasonal Comparison." *Climate Research*. V. 1(Sep. 1990): 12-21.

P. T. Soulé, and D. Shankman. "The Relationships of Palmer's Drought Indices to River Stage in Western Tennessee." *Physical Geography*. V. 11(1990): 206-219.

P. T. Soulé,. "A Comparison of Regional Drought Patterns in the Contiguous United States Using Four Measures of Drought Severity." *The Geographical Bulletin*. V. 32(1990): 72-80.

P. T. Soulé,. "Temporal Relationships Among Multiple Drought Types During an Average Drought." *Climatological Bulletin*. V. 24(Aug. 1990): 97-108.

P. T. Soulé, and V. Meentemeyer. "The Drought of 1988: Historical Rank and Recurrence Interval." *Southeastern Geographer*. V. 29(May 1989): 17-25.

P. T. Soulé,, V. Meentemeyer, and M. L. Shelton. "Trends in July Relative Humidity and Vapor Pressure Within the Central Valley of California, 1920-1981." *Journal of Arid Environments*. V. 15(1988): 109-116.

P. T. Soulé,. "The 1986 Growing Season Drought in the Southeastern United States: Spatial and Temporal Patterns." *Southeastern Geographer*. V. 28(Nov. 1988): 80-96.

P. T. Soulé,. "An Examination of Energy Consumption in the Residential Sector of the Contiguous United States." *The Geographical Bulletin*. V. 30(1988): 9-20.

P. T. Soulé, and P. W. Suckling. "Recent Trends in July Mean Maximum Actual and Effective Temperatures for Georgia." *Georgia Journal of Science*. V. 45(1987): 158-164.

**OTHER REFEREED PUBLICATIONS:**

P. T. Soulé,. "North Carolina's Climate." Invited paper for Snapshots of the Carolinas: Landscapes and Cultures. G. Gordon Bennett, ed. Association of American Geographers, Washington, D.C., 1996. p. 65-68.

P. T. Soulé,, V. Meentemeyer, and W. Bland. "Power Generation Industries and Climatic Data: Spatial and Temporal Considerations." Preprints: The American Meteorological Societies' 7th Conference on Applied Climatology. Salt Lake City, UT: September, 1991. pp. 47-50.

V. Meentemeyer and P. T. Soulé,. "The Spatio-Temporal Evolution of the Average Drought Affecting Georgia." Proceedings of the 1989 Georgia Water Resources Conference. Athens, GA: May, 1989. 5pp.

P. T. Soulé, and V. Meentemeyer. "A Comparison of Regional Drought Patterns in the Contiguous United States Using Four Measures of Drought Severity." Preprints: The American Meteorological Societies' 6th Conference on Applied Climatology. Charleston, SC: March, 1989. pp. 84-87.

**OTHER PUBLICATIONS:**

M. W. Mayfield, P. T. Soulé,, T. C. Rhyne, A. Rex, and L. A. Boyer-Garo. The North Carolina Greenhouse Gas Emissions Inventory for 1990. Boone, N.C.: Department of Geography and Planning, 1996.

P. T. Soulé,, ed. Geographic Perspectives of North Carolina's Climate. Boone, N.C.: Geographic Information Systems Laboratory, Department of Geography and Planning, Appalachian State University, 1994 (map sheet).

V. Meentemeyer and P. T. Soulé,. Analysis of Current Weather Data Collection at End-Use Monitored Sites and Recommendations for Future Monitoring Approaches. Atlanta, GA: Southern Company Services, Inc., 1995

V. Meentemeyer and P. T. Soulé,. Weather Data and Analyses for Summer System Peak Forecast Scenarios With an Emphasis on Cool Summers. Tucker, GA: Oglethorpe Power Corporation, 1993.

V. Meentemeyer and P. T. Soulé,. "Climate and Weather in the Grady EMC Service Area". Tucker, GA: Oglethorpe Power Corporation, 1993.

V. Meentemeyer and P. T. Soulé,. Weather Data for Winter System Peak Forecast Scenarios and Intermediate Range Demand Forecasts. Tucker, GA: Oglethorpe Power Corporation, 1992.

V. Meentemeyer and P. T. Soulé,. Weather Function Modeling Methodology: A Review. Tucker, GA: Oglethorpe Power Corporation, 1990.

V. Meentemeyer and P. T. Soulé,. Precipitation Data for Improved Load Forecasting. Tucker, GA: Oglethorpe Power Corporation, 1990.

V. Meentemeyer and P. T. Soulé,. Load Forecasting: Weather Data and Climatic Normals. Tucker, GA: Oglethorpe Power Corporation, 1989.

**MANUSCRIPTS SUBMITTED FOR PUBLICATION:**

**MANUSCRIPTS UNDER PREPARATION:**

"An analysis of the spatial parameters of extensive foliar damage in western juniper following an extreme out of season freeze event in central Oregon."

"The August Singularity in Montana."

**PRESENTATIONS AND PUBLISHED ABSTRACTS/PROCEEDINGS (presenter underlined if not Soulé):**

"Anomalous 20<sup>th</sup> Century Ponderosa Pine Growth and Potential CO<sub>2</sub> Fertilization in Naturally-Occurring Stands in the Interior West, USA." To be presented at United States Department of Agriculture's, National Research Initiative in Agricultural Plants and Environmental Adaptation Program Meeting, Warrenton, VA, February 2006 (with P. A. Knapp).

"Are Growth Rates of *Ponderosa Pine* in the Pacific Northwest Related to Atmospheric Carbon Dioxide?" Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, West Palm Beach, FL, November 2005 (with P. A. Knapp).

"Relationships Between Radial Growth Rate Enhancement of *Ponderosa Pine* and Increasing Levels of Carbon Dioxide." Presented at the Annual Meeting of The Association of Pacific Coast Geographers, Phoenix, AZ, October 2005 (with P. A. Knapp).

"Impacts of an Early Season Freeze Event in the Interior Pacific Northwest (October 30<sup>th</sup>-November 3<sup>rd</sup>, 2002) on Western Juniper Woodlands" Presented at the 59<sup>th</sup> Annual Meeting of the Southeastern Division, Association of American Geographers, Biloxi, MS, November 2004 (with P. A. Knapp).

"Changing Atmospheric Composition and Radial Growth Rate Enhancement of Ponderosa Pine" Presented at the 58<sup>th</sup> Annual Meeting of the Southeastern Division, Association of American Geographers, Charlotte, NC, November 2003 (with P. A. Knapp)

"Spatial Occurrence of Sustained Droughts and a Drought Zone in the Interior Pacific Northwest" Presented at the 57<sup>th</sup> Annual Meeting of the Southeastern Division, Association of American Geographers, Richmond, VA, November 2002 (with P. A. Knapp and H. D. Grissino-Mayer), 1.p.

"The Role of Disturbance in the Establishment History of Western Juniper." Presented at the 56<sup>th</sup> Annual Meeting of the Southeastern Division, Association of American Geographers, Lexington, KY, November 2001 (with P. A. Knapp and H. D. Grissino-Mayer), 1.p.

"Extreme Climatic Signature Years and Climatic Boundaries in the Interior Pacific Northwest." Presented at the 56<sup>th</sup> Annual Meeting of the Southeastern Division, Association of American Geographers, Lexington, KY, November 2001 (with P. A. Knapp and H. D. Grissino-Mayer), 1.p.

"A 775-year Reconstruction of Winter-Spring Precipitation for Central Oregon from Western Juniper (*Juniperus occidentalis* Hook.) Tree Rings." Presented at the International Conference on "Tree Rings and People", Davos, Switzerland, September 2001 (with H. D. Grissino-Mayer and P. A. Knapp).

"Comparative Rates of Western Juniper Afforestation and the Role of Anthropogenic Disturbance." Presented at the 97<sup>th</sup> Annual Meeting of the Association of American Geographers, New York, March 2001 (with P. A. Knapp and H. D. Grissino-Mayer), 1p.

"Growth Responses of Western Juniper in Central Oregon." Presented at the 55th Annual Meeting of the Southeastern Division, Association of American Geographers, Chapel Hill, November 2000 (with P. A. Knapp and H. D. Grissino-Mayer), 1p.

"Establishment and Expansion of Western Juniper on Research Natural Areas in Oregon." Presented at the 96<sup>th</sup> Annual Meeting of the Association of American Geographers, Pittsburgh, April 2000 (with P. A. Knapp and H. D. Grissino-Mayer), 1p.

"Western Juniper Establishment History on Minimally Disturbed Locations." Presented at the 54th Annual Meeting of the Southeastern Division, Association of American Geographers, Tampa, November 1999 (with Paul A. Knapp), 1p.

"Driving Forces Behind Agricultural Greenhouse Gas Emissions in North Carolina." Presented at the 95th Annual Meeting of the Association of American Geographers, Honolulu, March 1999 (with P. T. Dellinger), 1p.

"20th Century Western Juniper Growth Rates and Atmospheric CO<sub>2</sub> Enrichment." Presented at the 95th Annual Meeting of the Association of American Geographers, Honolulu, March 1999 (with P. A. Knapp), 1p.

"Assessing IPAT Using Production- and Consumption-based Measures of I." Presented at the 94th Annual Meeting of the Association of American Geographers, Boston, March 1998 (with J. L. DeHart), 1p.

"Does I = PAT Work in Local Places?" Presented at the 93rd Annual Meeting of the Association of American Geographers, Ft. Worth, April 1997 (with J. L. DeHart), 1p.

"Assessing I = PAT at the Local Scale." Presented at the 1997 American Association for the Advancement of Science Meeting, Seattle, February 1997 (with J. L. DeHart), 1p.

"Western Juniper Expansion on Three Sites with Different Land-Use Histories." Presented at the 51st Annual Meeting of the Southeastern Division, Association of American Geographers, Athens, Georgia, November 1996 (with P. A. Knapp), 1p.

"Western Juniper Expansion Under Different Disturbance Regimes." Presented at the 92nd Annual Meeting of the Association of American Geographers, Charlotte, April 1996 (with P. A. Knapp), 1p.

"Vegetation Change on a Central Oregon Semirelict Site: 1972-1995." Presented at the 92nd Annual Meeting of the Association of American Geographers, Charlotte, April 1996 (with P. A. Knapp), 1p.

"Grazing Influences of Western Harvester Ants (*Pogonomyrmex owyheei*) at Two Semirelict Sites in Central Oregon." Presented at the 50th Annual Meeting of the Southeastern Division, Association of American Geographers, Knoxville, November 1995 (with P. A. Knapp), 1p.

"Grazing Influences of Western Harvester Ants in Central Oregon." Presented at the 91st Annual Meeting of the Association of American Geographers, Chicago, March 1995 (with P. A. Knapp), 1p.

"The Effects of CO<sub>2</sub> Enrichment on Central Oregon Rangeland Vegetation." Presented at the 91st Annual Meeting of the Association of American Geographers, Chicago, March 1995 (with P. A. Knapp), 1p.

"Normal Degree Days in the Southeastern United States." Presented at the 49th Annual Meeting of the Southeastern Division, Association of American Geographers, Virginia Beach, VA, November 1994, 1p.

"Freeze-Thaw Cycles and Freezing Degree Days in the Southeastern USA." Presented at the 90th Annual Meeting of the Association of American Geographers, San Francisco, CA, April 1994. 1p.

"Hydrologic Drought Conditions in the Contiguous United States, 1900-1989: Spatial Patterns and Multiple Comparison of Means." Presented at the 48th Annual Meeting of the Southeastern Division, Association of American Geographers, Greensboro, NC, November 1993. 1p.

"Degree-Day Variability in the Southeastern United States." Presented at the 89th Annual Meeting of the Association of American Geographers, Atlanta, GA, April 1993. 1p.

"Wind Chill Extremes in Georgia." Presented at the 47th Annual Meeting of the Southeastern Division, Association of American Geographers, Louisville, KY, November 1992. (with V. Meentemeyer and W. Bland). 1p.

"Patterns of Average Drought in the Central and Western USA." Presented at the 88th Annual Meeting of the Association of American Geographers, San Diego, CA, April, 1992. 1p.

"Frequency and Duration of Normal Weather." Presented at the Annual Meeting of the Alabama Academy of Science, Tuscaloosa, AL, April 1992. 1p.

"Duration and Frequency of Drought Events." Presented at the 46th Meeting of the Southeastern Division, Association of American Geographers, Asheville, NC, November 1991. 1p.

"Power Generation Industries and Climatic Data: Spatial and Temporal Considerations." Presented at the American Meteorological Societies' 7th Conference on Applied Climatology. Salt Lake City, UT: September, 1991. (with V. Meentemeyer and W. Bland). 4pp.

"Spatial Patterns of Drought Frequency and Duration in the Contiguous United States." Presented at the Annual Meeting of the Alabama Academy of Science, Jacksonville, AL, March 1991. 1p.

"Benign Climatic Events in the Contiguous United States." Presented at the 87th Annual Meeting of the Association of American Geographers, Miami, FL, April 1991. 1p.

"The Needs and Uses of Climatic Data by Power Generation Industries." Presented at the 13th Annual Applied Geography Conference, Charlotte, NC, October 1990. (with V. Meentemeyer and W. Bland). 1p.

"Temporal Relationships Among Multiple Drought Types During an Average Drought." Presented at the 86th Annual Meeting of the Association of American Geographers, Toronto, Canada, April 1990. 1p.

"Moisture Indices and Surface Hydrology in Western Tennessee." Presented at the 45th Meeting of the Southeastern Division, Association of American Geographers, Columbia, SC, November 1990. (with D. Shankman). 1p.

"Spatial Patterns of Drought Severity During an Average Drought." Presented at the 44th Meeting of the Southeastern Division, Association of American Geographers, Charleston, WV, November 1989. 1p.

"The Spatio-Temporal Evolution of the Average Drought Affecting Georgia." Presented at the 1989 Georgia Water Resources Conference. Athens, GA: May, 1989. (with V. Meentemeyer). 5pp.

"The Geographic Development of Major Droughts Affecting Georgia." Presented at the 66th Annual Meeting of the Georgia Academy of Science, Valdosta, Ga, April 1989. (with V. Meentemeyer). 1p.

"Concurrent and Lagged Relationships Among Multiple Drought Types." Presented at the 85th Annual Meeting of the Association of American Geographers, Baltimore, MD, March, 1989. 1p.

"A Comparison of Regional Drought Patterns in the Contiguous United States Using Four Measures of Drought Severity." Presented at the American Meteorological Societies' Sixth Conference on Applied Climatology, Charleston, SC, March, 1989. (with V. Meentemeyer). 4pp.

"The Drought of 1988: Historical Rank and Recurrence Interval." Presented at the 43rd Annual Meeting of the Southeastern Division, Association of American Geographers, Mobile, AL, November, 1988. (with V. Meentemeyer). 1p.

"Spatial and Temporal Patterns of Multiple Drought Types in the Contiguous United States." Presented at the 84th Annual Meeting of the Association of American Geographers, Phoenix, AZ, April, 1988. 1p.

"Spatial and Temporal Patterns of Drought in The Southeastern United States During the 1986 Growing Season." Presented at the 42nd Annual Meeting of the Southeastern Division, Association of American Geographers, Charlotte, NC, November, 1987. 1p.

"Household Energy Consumption in the Residential Sector of the United States." Presented at the 64th Annual Meeting of the Georgia Academy of Science, Albany, GA, April 1987. 1p.

"Some Observations of the Urban Heat Island in Athens, Georgia." Presented at the 2nd Annual University of Georgia/University of Florida Geography Conference, Gainesville, FL, February 1987. 1p.

"Trends in July Mean Maximum Effective and Actual Temperatures in Georgia, 1956-1981." Presented at the 41st Annual Meeting of the Southeastern Division, Association of American Geographers, Lexington, KY, November 1986. 1p.

"Trends in Relative Humidity and Vapor Pressure Within the Central Valley of California, 1920-1981." Presented at the 63rd Annual Meeting of The Georgia Academy of Science, Milledgeville, GA, May 1986. 1p.

"An Application of Selected Human Comfort Indices in the Southeastern United States." Presented at the 1st Annual University of Georgia/University of Florida Geography Conference, Athens, GA, March 1986. 1p.

"Topoclimatic Influences on Heating Degree Days in Complex Terrain." Presented at the 80th Annual Meeting of the Association of American Geographers, Washington, D.C., April 1984. 1p.

**GRANTS, CONTRACT, and CONSULTING WORK:**

P. T. Soulé and P. A. Knapp. "Anomalous 20<sup>th</sup> Century Ponderosa Pine Growth and Potential CO<sub>2</sub> Fertilization in Naturally-Occurring Stands in the Interior West, USA." United States Department of Agriculture, National Research Initiative Competitive Grants Program, 2005-2007. \$150,000 (external grant)

P. A. Knapp and P. T. Soulé. "A Climatologically Perfect Storm and the Large-Scale Mortality of Western Juniper Woodlands in the Interior Pacific Northwest." Bureau of Land Management, 2005, \$44,116 (external grant - **under review**)

G. L. Walker and P. T. Soulé. "Characterization of Ancient Red Cedar Communities in the Obed Wild and Scenic River Gorge." National Park Service, 2005, \$25,000 (external grant - **under review**).

P. T. Soulé. "A Climatologically Perfect Storm and the Large-Scale Mortality of Western Juniper Woodlands in the Interior Pacific Northwest." University Research Council Competitive Grants, Summer 2004, Appalachian State University, \$4459. (internal grant).

P. T. Soulé. "Detecting a Carbon Dioxide Growth Signal in Ponderosa Pine Tree-ring Chronologies from Washington to Northern California." University Research Council Competitive Grants, Summer 2001, Appalachian State University, \$1000. (internal grant)

P. T. Soulé. "Incorporating Computer Animations via CD-rom Into Two Courses: Introduction to Physical Geography and Weather and Climate." Faculty and Academic Development Grant, Hubbard Center, Appalachian State University, 2001, \$305. (internal grant)

P. A. Knapp, P. T. Soulé,, and H. D. Grissino-Mayer (co-PIs). "Historic Expansion of Western Juniper on Near-Relict Sites: a Dendroecological Approach." National Science Foundation, August 1998 - August 2001, \$190,376. (external grant)

P. T. Soulé,. "An Examination of Ponderosa Pine (*Pinus ponderosa*) Growth Rates in Relation to Increasing Levels of Atmospheric Carbon Dioxide." University Research Council Competitive Grant, Appalachian State University, 1999-2000, \$2500. (internal grant)

P. T. Soulé,. "Processing Samples extracted from Western Juniper in Support of a Project Assessing Linkages Between Increases in Atmospheric Carbon Dioxide and Growth Rates of this Tree Species." University Research Council Competitive Grants: Summer 1999, Appalachian State University, 1999, \$337. (internal grant)

P. A. Knapp and P. T. Soulé, (co-PIs). "Western Juniper (*Juniperus occidentalis*) Expansion on Minimally Impacted Sites in Central Oregon: Periods of Establishment and Probable Cause(s)." Challenge Cost Share Program, U.S. Bureau of Land Management, \$10,000, 1997-1998. (external grant)

P. T. Soulé,. "Assessing Historic Expansion of Western Juniper on Minimally Impacted Sites: a Dendroecological Approach." University Research Council Competitive Grant, Appalachian State University, 1996-1997, \$1035. (internal grant)

N. G. Lineback, PI. "Global Change in Local Places." NASA, \$175,000, 1996, 1997, 1998. (my involvement was as a Senior Researcher). (contract work)

P. T. Soulé,. Appalachian State University, Hubbard Center Faculty Development Fund for "Incorporating Recent Meteorological Technology in the Classroom." \$200, 1996. (internal grant)

L. Garo, PI. "North Carolina Greenhouse Gas Inventory for 1990." State of North Carolina-EPA, \$50,000, 1996. (my involvement was as a Senior Researcher). (contract work)

P. T. Soulé,. Appalachian State University, University Research Council Summer Research Grant for "Long-term Monitoring of Central Oregon Rangeland Vegetation: CO2 Enrichment and Vegetation Change," \$1,000, 1995. (internal grant)

V. Meentemeyer and P. T. Soulé,. Analysis of Current Weather Data Collection at End-Use Monitored Sites and Recommendations for Future Monitoring Approaches. Atlanta, GA: Southern Company Services, Inc., 1995, \$20,000. (consulting)

P. T. Soulé,. Appalachian State University, Meteorological Monitoring Project, August 1993- January 1995, \$3500/year. (contract work)

V. Meentemeyer and P. T. Soulé,. 1: "Weather Data and Analyses for Summer System Peak Forecast Scenarios With an Emphasis on Cool Summers", and 2: "Climate and Weather in the Grady EMC Service Area." Tucker, GA: Oglethorpe Power Corporation, 1993. \$8,000. (consulting)

V. Meentemeyer and P. T. Soulé,. "Weather Data for Winter System Peak Forecast Scenarios and Intermediate Range Demand Forecasts." Oglethorpe Power Corporation, 1992, \$10,000. (consulting)

P. T. Soulé,. University of Alabama Research Grants Committee for "Intensity, Spatial Coverage, and Temporal Development of Average Droughts in the Contiguous United States," 1990, \$2700. (internal grant)

V. Meentemeyer and P. T. Soulé,. "Weather Function Modeling Methodology: A Review," Oglethorpe Power Corporation, 1990, \$10,000. (consulting)

V. Meentemeyer and P. T. Soulé,. "Precipitation Data for Improved Load Forecasting," Oglethorpe Power Corporation, 1990, \$10,000. (consulting)

V. Meentemeyer and P. T. Soulé,. "Load Forecasting: Weather Data and Climatic Normals," Oglethorpe Power Corporation, 1989, \$10,000. (consulting)

**COLLOQUIA AND INVITED TALKS:**

"Western Juniper in Central Oregon: Establishment History and the Role of Anthropogenic Disturbance." University of Tennessee, Department of Geography Colloquium Series, November, 2001.

"The Establishment History of Western Juniper in Central Oregon." Appalachian State University, Department of Geography and Planning Seminar Series, May 2001.

"Grazing Influences of Western Harvester Ants (*Pogonomyrmex owyheei*) at Two Semirelict Sites in Central Oregon." Appalachian State University, Department of Biology Seminar Series, November, 1995.

"An Eyewitness Account of Hurricane Gilbert, Tropical Storm of the Century." Department of Geography and Planning, Appalachian State University, National Geography Awareness Week Presentations, November, 1993.

"Regionally-Based Droughts in the USA: Spatial Patterns and Teleconnections." Invited Speaker, The Southeast Climate Symposium: Changing Climate and Water Resources, Charleston, SC, October, 1992.

"Spatial and Temporal Patterns of Drought." Department of Geology Seminar Series, University of Alabama, September, 1992.

"Characteristics of Drought in the Contiguous United States." University of North Carolina, Chapel Hill, September, 1992

"Drought Events in the Contiguous United States: Frequency, Duration, and Spatial Patterns." East Carolina University, January, 1992.

"An Overview of United States Drought Patterns." Summer Minority Research Program Seminar, University of Alabama, June 1992.

"Spatial and Temporal Patterns of Multiple Drought Types in the Contiguous United States." University of Alabama, January, 1989.

"Hurricane Gilbert: Tales from the Eye." Geography Department Colloquium Series. University of Georgia, October, 1988.

**GRADUATE STUDENTS DIRECTED:**

Glen A. Wiggins, MS, University of Alabama 1991, (thesis); John Bounds, MS, University of Alabama, 1992, (non-thesis); Joe Anzelmo, MS, University of Alabama, 1993 (thesis); Jon C. Acker, MS, University of Alabama, 1994 (thesis); Dan Harris, MA, Appalachian State University, 1996 (thesis); David Hughes III, MA, Appalachian State University, 1997 (thesis); Taylor Dellinger, MA, Appalachian State University, 1997 (thesis). Amanda Todd, MA, Appalachian State University, 2002 (thesis). Candace Tankersley, Appalachian State University, MA, 2002 (applied-track). Ken Bissell, Appalachian State University, MA, 2004 (applied-track).

**PRIMARY RESEARCH INTERESTS:**

Global Change (vegetation and atmospheric composition)  
Climatic extremes (drought, floods, wet spells)  
Applied climatology (energy consumption, human comfort)  
Synoptic Climatology, Natural Hazards, Biogeography

**COURSES TAUGHT:**

Graduate:

Climatology, Applied Climatology, Natural Hazards, Directed Research in Physical Geography, Physical Environmental Analysis, Advanced Quantitative Methods in Geography.

Undergraduate:

Environmental Issues in Appalachia, Introduction to Physical Geography, Weather & Human Societies, Principles of Physical Geography I, Principles of Physical Geography II, Earth Science Survey, Weather and Climate, Physical Geography Lab, Climatology (Synoptic), Applied Climatology, Natural Hazards, Quantitative Methods, Recreational Land Use, Introduction to Physical Geography - Honors, Synoptic and Regional Climatology.

**AWARDS/HONORS:**

2003: Mentor for the thesis of Amada Todd, which was selected as ASU's entry for submission to the Council of Southern Graduate School's 2004 Master's Thesis Award in the Social Sciences.

2003: Mentor for the thesis of Amanda Todd, which received "Honorable Mention" honors (2<sup>nd</sup> place) in the annual Cratis Williams Thesis Award competition (ASU).

2000: Board of Trustees Travel Study Grant (ASU). (\$3000)

2000: Donald W. Sink Outstanding Scholar Award (ASU). (\$1000)

1999: Wachovia Faculty Award for Environmental Research (ASU). (\$500)

1999: Nominated for the Donald W. Sink Outstanding Scholar Award (ASU).

1998: Nominated for the Wachovia Faculty Award (ASU).

1998: Nominated for the College of Arts and Sciences Outstanding Scholar Award (ASU).

1998: Nominated for the College of Arts and Sciences Academy of Outstanding Teachers (ASU).

1998: Mentor for the third place thesis of P. Taylor Dellinger, Cratis Williams Thesis Award (ASU).

1996: Nominated for the Distinguished Graduate Faculty Award, 1995-1996 (ASU).

1995: Nominated to the College of Arts and Sciences Academy of Outstanding Teachers (ASU).

1994: Selected to participate in the May/June Grant writing Workshop (ASU). (\$1500)

1990: Winner of the 1989 Robert C. Anderson Dissertation Award, University of Georgia. (\$1000)

1990: Nominated for the NSF Presidential Young Investigator Award, University of Alabama.

1989: Nominated for the NSF Presidential Young Investigator Award, University of Alabama.

1989: University of Alabama Incentive Award.

1987: Winner of the Ph.D. level Student Honors Competition, 42nd Annual Meeting of the Southeastern Division, Association of American Geographers.

1986: Outstanding Teaching Assistant Award, University of Georgia.

1984: Alumni Scholarship, Appalachian State University.

1983: Zigli Research Award, Appalachian State University (\$50!)

1983: Alumni Scholarship, Appalachian State University.

1983: Julian Yoder Scholarship, Appalachian State University.

**PROFESSIONAL SERVICE:**

2005 Science Focus Seminar: Meteorology. Appalachian State University.

2004-2003 Chair, Best Article Committee, *Southeastern Geographer*

2003- Audit Committee, Southeastern Division, Association of American Geographers

2003-2002 Best Article Committee, *Southeastern Geographer*

2002-2001 Steering Committee, Southeastern Division, Association of American Geographers.

2002-2001 Membership Committee, Southeastern Division, Association of American Geographers.

2002-2001 State Representative for North Carolina, Southeastern Division, Association of American Geographers.

2001 Chair, Association of American Geographers Research Grants Committee.

2000-1999 Association of American Geographers Research Grants Committee.

2005-1990 Editorial Board Member, *Climate Research*.

2005-1999 Editorial Board Member, *Southeastern Geographer*

2000 Program Committee, Annual Meeting of the Southeastern Division, Association of American Geographers.

2005-1988 Manuscript reviewer for *Climate Research*, *Southeastern Geographer*, *Physical Geography*, *International Journal of Climatology*, *The North Carolina Geographer*, *Professional Geographer*, *AAG Snapshots*, *Annals of the Association of American Geographers*, *Journal of Hydrology*, *Journal of Geography*, *Journal of the American Water Resources Association*, *Northwest Science*, *Social Science Quarterly* (3 to 5 manuscripts reviewed/year).

2004, 1999 Proposal Reviewer for the National Science Foundation.

2004-1989 Paper discussant, 44th, 45th, 46th, 47th, 49th, 50th, 51st, 52nd, 54<sup>th</sup>, 55<sup>th</sup>, 57<sup>th</sup>, 58<sup>th</sup> annual Meetings of the Southeastern Division, AAG.

1997, 1996 Resolutions Committee member, Southeastern Division, Association of American Geographers.

1997 Lecturer for the "Science of Mapping Institute," an extended in-service teachers workshop funded by an Eisenhower Grant.

1997-1995 Department of Geography and Planning, ASU. Faculty overseer for the Meteorological Monitoring Project.

1996, 1995 Provided "Official", on-air meteorological forecasts for the Appalachian Sports Network for all ASU football games.

1996 Session Chair, SEDAAG Annual Meeting.

1995 Two-day in-service teacher's workshop "Meteorology: Weather or Not?" Sponsored by the ASU Mathematics and Science Education Center and the Catawba Science Center, Hickory, NC.

1995 (Spring & fall semester) Facilitator for a workshop on "Research and Professional Writing" sponsored by the William C. Hubbard Center, ASU (both Spring and Fall semester).

1995-1993 Served as a "consulting meteorologist" for the ASU Meteorological Monitoring Project.

1994 Presented a series of lectures on climatic change at a NIGEC-funded (National Institute for Global Environmental Change) teacher's workshop on Global Environmental Change at the University of Alabama.

1994 Gave a presentation on environmental career options in Geography and Planning at the Earth and ASU program sponsored by Career Development.

1993 Honors Committee, Southeastern Division, Association of American Geographers.

1993 Proposal reviewer for the Southeastern Regional Climate Center.

1993 Proposal reviewer for the National Science Foundation and the U.S. Fish and Wildlife Service.

1993-1992 AAG Program Committee Member for the 1993 Atlanta Meeting.

1993-1990 Event Organizer, Regional Science Olympiad, University of Alabama, March 1990, 1991, 1992, 1993.

1992 Lecturer for a teacher's in-service workshop on "Aspects of Global Environmental Change." University of Alabama.

1991 Session chair: 87th Annual Meeting of the AAG.

1990 Session chair: 5th Annual Georgia-Florida-South Carolina-Alabama Geography conference, Feb., 1990.

- 1989 Book Reviewer, Saunders College Publishing.
- 1988 Co-organizer and session chair: 3rd Annual Georgia-Florida Geography Conference, February 1988.
- 1987 Session chair: 2nd Annual Georgia-Florida Geography Conference, February 1987.

**UNIVERSITY COMMITTEE SERVICE:**

Appalachian State University

- 2004-05 Chair, Classroom Equipment Committee (departmental), Chair, Graduate Committee (departmental), Departmental Personnel Committee-alternate (departmental), Speaker Committee (departmental), Co-chair, Student Awards Committee (departmental).
- 2003-04 Chair, Classroom Equipment Committee (departmental), Graduate Committee (departmental), Departmental Personnel Committee-alternate (departmental), Speaker Committee (departmental).
- 2002-03 Departmental Personnel Committee (departmental), Chair, Classroom Equipment Committee (departmental), Graduate Committee (departmental), Speaker Committee (departmental).
- 2001-02 Departmental Personnel Committee (departmental), Classroom Equipment Committee (departmental), Chair, Graduate Committee (departmental), Speaker Committee (departmental), Chair, Honors and Awards Committee-Graduate (departmental), Departmental Chairperson Search Committee (departmental), Graduate School Scholarship Committee (university-wide), Cratis Williams Outstanding Thesis Award Committee (university-wide).
- 2000-01 University Research Council (university-wide), Board of Trustees Travel Study Grant Committee (university-wide), Chair, Office of Research and Sponsored Programs Strategic Plan Committee (university-wide), Graduate School Scholarship Committee (university-wide), Patent and Copyright Committee (university-wide), Promotion and Tenure Guidelines Revision Committee (departmental), Chair, Honors and Awards Committee (departmental), Chair, Graduate Committee (departmental), Teaching Evaluation Committee (departmental).
- 1999-00 Chair, Julian Yoder Scholarship Committee (departmental), Graduate Committee (departmental), Teaching Assistant Award Committee (departmental), University Research Council (university-wide), Patent and Copyright Committee (university-wide), Chair, Comprehensive Exams Committee (departmental), Chair, Office of Research and Sponsored Programs Strategic Plan Committee (university-wide), Graduate School Scholarship Committee (university-wide).

- 1998-99 Board of Trustees Travel Study Grant Committee (university-wide), Excellence in Scholarship Award Committee (college), Chair, Julian Yoder Scholarship Committee (departmental), Departmental Personnel Committee (departmental), DPC Equal Opportunity Associate (departmental), Graduate Committee (departmental), Teaching Assistant Award Committee (departmental), Curriculum Committee (departmental), University Research Council (university-wide), Patent and Copyright Committee (university-wide), Computer Committee (departmental), Chair, Comprehensive Exams Committee (departmental).
- 1997-98 Excellence in Scholarship Award Committee (college). Chair, Julian Yoder Scholarship Committee (departmental), Departmental Personnel Committee (departmental), DPC Equal Opportunity Associate (departmental), Graduate Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental), Curriculum Committee (departmental), Speaker Committee (departmental). Chair, Chairperson Search Committee (college).
- 1996-97 Excellence in Scholarship Award Committee (college). University Research Council Competitive Grants Committee (university-wide -- fill in for K. Schroeder), Chair, Julian Yoder Scholarship Committee (departmental), Departmental Personnel Committee (departmental), DPC Equal Opportunity Officer (departmental) Graduate Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental), Curriculum Committee (departmental), Speaker Committee (departmental), Appalachian Geographical Society Advisor (departmental), Gamma Theta Upsilon Advisor (departmental).
- 1995-96 Chair, Julian Yoder Scholarship Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental), Honors Director for Geography and Planning, Curriculum Committee (departmental), Speaker Committee (departmental).
- 1994-95 Chancellor's Scholarship Committee (university-wide), Julian Yoder Scholarship Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental), Honors Director for Geography and Planning, Curriculum Committee (departmental).
- 1993-94 Julian Yoder Scholarship Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental).

**University of Alabama**

- 1992-93 Energy Management Committee (university-wide), Graduate Program Committee (departmental), Textbook Selection Committee (departmental).

1991-92 Energy Management Committee (university-wide),  
Graduate Program Committee (departmental), Textbook  
Selection Committee (departmental), Chairperson  
Selection Committee (departmental).

1990-91 Energy Management Committee (university-wide),  
Graduate Program Committee (departmental), Textbook  
Selection Committee (departmental).

1989-90 Graduate Program Committee (departmental), Space  
Allocation Committee (departmental).

**PERSONAL:**

Married, one child, excellent health, dob: 11/11/58

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