

## Curriculum Vitae

### THOMAS WILLIAM SWETNAM

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**BIRTHDATE & PLACE:** December 9, 1955, Ruidoso, New Mexico, U.S.A

#### EDUCATION

- University of Arizona, M. S., 1983, Ph.D. 1987, Watershed Management, Dendrochronology
- University of New Mexico, B. S., 1977, General Biology, Chemistry

#### EMPLOYMENT

- 2000 to Present: Director & Professor of Dendrochronology, Laboratory of Tree-Ring Research; joint appointments in School of Natural Resources, Ecology & Evolutionary Biology, and Geography & Regional Development
- 1994-1999: Associate Professor of Dendrochronology, Laboratory of Tree-Ring Research
- 1988-1994: Assistant Professor of Dendrochronology, Laboratory of Tree Ring Research
- 1987-1988: Research Associate, Laboratory of Tree-Ring Research, University of Arizona
- 1980-1987: Graduate Assistant in Research, subsequently Graduate Associate in Research, Laboratory of Tree-Ring Research, University of Arizona
- 1978-1980: Forestry Technician, Gila Wilderness, New Mexico, U. S. Forest Service
- 1976-1977: Park Technician, Grand Canyon National Park, Arizona, National Park Service

#### AWARDS & HONORS

- Henry Cowles Award, The Association of American Geographers, Biogeography Specialty Group, for outstanding paper with James Speer (2002)
- William Skinner Cooper Award, Ecological Society of America, for outstanding paper in geobotany, with Julio Betancourt (2001)
- Weaver Lecturer, School of Forestry and Wildlife Science, Auburn University (2000)
- Visiting fellow at Aldo Leopold Wilderness Research Institute, Missoula Montana (1994)
- A. E. Douglass Scholarship Award University of Arizona (1983)

#### APPOINTMENTS & ADVISORY BOARDS

- Member, Board of Trustees, Valles Caldera National Preserve (appointed by President William J. Clinton (2000-2004)
- Member, Governor's Forest Health Advisory Council (appointed by Arizona Governor Janet Napolitano (2003-2006)

- Member, Governor's Climate Change Advisory Group (appointed by Arizona Governor Janet Napolitano (2005-2006)
- Member, Science Advisory Board, Malpais Borderlands Group, New Mexico (2003-2006)
- Member, Board of Advisors, Institute for Natural Resource Management, NSF-EPSCOR Program, New Mexico (2003-2005)
- Member & Chair, Board of Advisors, NOAA Paleoclimatology Program (2004-2005)
- Member, Board of Advisors, NSF-EPSCOR Ecology Program, Wyoming (2005-2007)
- Member (and founder), Board of Advisors, International Multiproxy Paleofire Database, National Climate Data Center, NOAA (2002-present)
- Member of Executive Committee, Consortium for Integrated Climate Research in Western Mountains (CIRMOUNT) (2003-present)

### CONGRESSIONAL TESTIMONY

- Hearing before the U.S. House of Representatives Natural Resources Subcommittee on Forest Health, in Washington DC. Written testimony co-authored by Dr. P. Morgan, Dr. L. Neuenschwander, and Dr. T. W. Swetnam, June 7th, 2000
- Field Hearing before the U.S. House of Representatives, Natural Resources Subcommittee on Forest Health on Preventing Wildfires through Proper Management of the National Forests, August 14, 2000 in Albuquerque New Mexico.
- Hearing before the Senate Energy & Natural Resources Committee: To consider scientific assessments of the impacts of global climate change on wildfire activity in the United States. Written testimony co-authored by Dr. T.W. Swetnam and Dr. A.L. Westerling, September 24, 2007

### EDITORIAL

- Associate Editor, *Dendrochronologia*, 2005-present
- Editor, *Tree-Ring Research* (formerly *Tree-Ring Bulletin*) 2000-2001
- Associate Editor, *Canadian Journal of Forest Research*, 1998
- Editorial Board, *Ecological Applications*, 1998-1999
- Co-Editor with J. Dean and D. Meko on special issue of *Radiocarbon*, 1996
- Associate Editor, *Ecoscience*, 1994-1998
- Associate Editor, *International Journal of Wildland Fire*, 1993-present

### PUBLICATIONS (by type and chronological order)

#### Edited Books

1. Dean, J. S., D. M. Meko, and **T. W. Swetnam**, editors. 1996. Tree Rings, Environment, and Humanity, Proceedings of the International Conference, Tucson, Arizona, 17-21 May, 1994. Radiocarbon, Tucson Arizona. 889 pp.

2. Veblen, T. T., W. Baker, G. Montenegro, and **T. W. Swetnam**, editors. 2003. Fire and Climatic Change in Temperate Ecosystems of the Western Americas. Ecological Studies Vol. 160. Springer, New York. 444 pp.
3. Hughes, M.K., H.L. Diaz, and **T.W. Swetnam**, editors. In review. Dendroclimatology: Progress and Prospects, Springer, New York.

#### Chapters in Books

4. **Swetnam, T. W.** and 9 other authors (all listed alphabetically). 1991. Biosphere-Climate Interactions during the past 18,000 years: Towards a Global Model of the Terrestrial Biosphere. pages 25-42, In: R. S. Bradley, ed., Global Changes of the Past, Papers arising from the 1989 OIES Global Change Institute, Snowmass, Colorado, 24 July - 4 August, 1989. UCAR/Office for Interdisciplinary Earth Studies.
5. **Swetnam, T. W.**, and J. L. Betancourt. 1992. Temporal patterns of El Niño/Southern Oscillation - wildfire patterns in the southwestern United States. pages 259-270 In Diaz H. F. and V. M. Markgraf, eds., El Niño: Historical and Paleoclimatic Aspects of the Southern Oscillation, Cambridge University Press, Cambridge.
6. Wickman, B. E., R. R. Mason, and **T. W. Swetnam**. 1994. pages 251-261. Searching for long-term patterns of forest insect outbreaks. In: S. R. Leather, K. F. A. Walters, N. J. Mills, and A. D. Watt, eds., Individuals, Populations and Patterns in Ecology, Intercept Press, Andover, United Kingdom.
7. Allen, C. D., R. Touchan, and **T. W. Swetnam**. 1996. Overview of fire history in the Jemez Mountains, New Mexico. pp.35-36, in The Jemez Mountains Region : New Mexico Geological Society, Forty-seventh Annual Field Conference, September 25-28, eds. Fraser Goff, B. S. Kues, M. A. Rogers, L. D. McFadden, and J. N. Gardner. Albuquerque, N.M.
8. **Swetnam, T. W.** 1996. Fire and climate history in the Central Yenisey Region, Siberia. pages 90-104, In J. G. Goldammer and V. V. Furyaev, eds., Fire in Ecosystems of Boreal Eurasia. Kluwer Academic Publishers, London.
9. Goldammer, J. G. and **Swetnam, T. W.** (listed alphabetically with 8 other authors). 1996. Fire in ecosystems of Boreal Eurasia: The Bor Island Fire Experiment Fire Research Campaign: Asia-North (FIRESKAN). Chapter 81, pages 848-873, In J. S. Levine, Biomass Burning and Global Change, Vol. 2. The MIT Press, Cambridge, Massachusetts.
10. Allen, C. D., J. L. Betancourt, and **T. W. Swetnam**. 1998. Landscape Changes in the Southwestern United States: Techniques, Long-term Data Sets, and Trends. Pages 71-84, In T. Sisk, editor, Perspectives on the Land Use History of North America: A Context for Understanding our Changing Environment. U.S. Geological Survey, Biological Science Report USGS/BRD/BSR-1998-0003. 104 pp.
11. Kipfmüller, K. F. and **T. W. Swetnam**. 2001. Using dendrochronology to reconstruct the history of ecosystems. Chapter 8, pages 199-228, In D. Egan and E. A. Howell eds., Techniques for Discovering Historic Ecosystems. Island Press, Washington.
12. **Swetnam, T. W.**, C. H. Baisan, and J. M. Kaib. 2001. Forest fire histories in the sky islands of La Frontera. Chapter 7, pages 95-119, In G. L. Webster and C. J. Bahre eds., Changing Plant Life of La Frontera: Observations on Vegetation in the United States/Mexico Borderlands. University of New Mexico Press, Albuquerque.
13. **Swetnam, T. W.** and C. H. Baisan. 2003. Tree-ring reconstructions of fire and climate history in the Sierra Nevada and Southwestern United States. pages 158-195, In: T. T. Veblen, W. Baker, G. Montenegro, and **T. W. Swetnam**, editors. Fire and Climatic Change

- in Temperate Ecosystems of the Western Americas. Ecological Studies Vol. 160. Springer, New York.
14. Milne, B. T., D. I. Moore, J. L. Betancourt, J. A. Parks, **T. W. Swetnam**, R. R. Parmenter, and W. T. Pockman. 2003. Multidecadal drought cycles in south-central New Mexico: Patterns and consequences. In: Climate Variability and Ecosystem Response at Long Term Ecological Research (LTER) Sites, Eds., D. Greenland, D. Goodin, and R. Smith. Oxford University Press, New York.
  15. Morehouse, B., G. Christopherson, M. Crimmins, B. Orr, J. Overpeck, **T. Swetnam** and S. Yool. 2006. Modeling interactions among wildland fire, climate and society in the context of climatic variability and change in the Southwest US. pages 58-78, In: Regional Climate Change and Variability, Impacts and Responses, M. Ruth, K. Donaghy, P. Kirshen. Edward Elgar, Cheltenham, UK.
  16. Wilkinson-Kaye, M., **T. Swetnam**, and C. Baisan. 2006. Chapter 5. Borderlands Fire Regimes, In: Fish, P.R., S.K. Fish, and J.H. Madsen, Prehistory and early history of the Malpais Borderlands: Archeological syntheses and recommendations. Gen. Tech. Rep. RMRS-GTR-176, Fort Collins, CO: US Department of Agriculture, Forest Service, Rocky Mountain Research Station, 112p.
  17. **Swetnam, T. W.**, C. H. Baisan, H. D. Grissino-Mayer. In press. Tree-Ring Perspectives on Fire Regimes and Forest Dynamics. In press. Tree-ring perspectives on fire regimes and forest dynamics. In: R Sanderson, editor. The Last Refuge of the Mt. Graham Red Squirrel: Ecology of Endangerment, University of Arizona Press, Tucson.
  18. **Swetnam, T. W.** and P. M. Brown. In press. Climatic inferences from dendroecological reconstructions. In: Hughes, M.K., H.L. Diaz, and **T.W. Swetnam**, editors, Dendroclimatology: Progress and Prospects, Springer, New York.

#### Refereed Journal Articles

19. Madany, M. H., **T. W. Swetnam**, and N. West. 1982. Comparison of two approaches for determining fire dates from tree scars. *Forest Science* 28(4):856-861.
20. **Swetnam, T. W.** 1983. Gila fire history suggests restoration may require planned ignitions. *Restoration and Management Notes* 1(4):286.
21. **Swetnam, T. W.**, E. K. Sutherland, and M. A. Thompson. 1983. Comment on dating forest disturbances. *Quaternary Research* 19:400-401.
22. **Swetnam, T. W.** 1984. Peeled ponderosa pine trees: A record of inner bark utilization by Native Americans. *Journal of Ethnobiology* 4(2):177-190.
23. Dieterich, J. H., and **T. W. Swetnam**. 1984. Dendrochronology of a fire scarred ponderosa pine. *Forest Science* 30(1):238-247.
24. **Swetnam, T. W.**, M. A. Thompson, and E. K. Sutherland. 1985. Using dendrochronology to measure radial growth of defoliated trees. *USDA Forest Service, Agriculture Handbook* 639. 39 p.
25. Biondi, F., and **T. W. Swetnam**. 1988. Box-Jenkins models of forest interior tree-ring chronologies. *Tree-Ring Bulletin* 47:71-96
26. **Swetnam, T. W.**, A. M. Lynch. 1989. A Tree-Ring reconstruction of western spruce budworm outbreaks in the Southern Rocky Mountains. *Forest Science* 35(4):962-986.
27. Fritts, H. C., and **T. W. Swetnam**. 1989. Dendroecology: A tool for evaluating variations in past and present forest environments. *Advances in Ecological Research* Vol. 19:111-189.

28. **Swetnam, T. W.**, and J. L. Betancourt. 1990. Fire-Southern Oscillation relations in the Southwestern United States. *Science* 249:1017-1020.
29. Van Pelt, N. S., and **T. W. Swetnam**. 1990. Conservation and stewardship of tree-ring study resources: Subfossil wood and living trees. *Natural Areas Journal* 10(1):19-27.
30. Baisan, C. H., and **T. W. Swetnam**. 1990. Fire history on a desert mountain range: Rincon Mountain Wilderness, USA. *Canadian Journal of Forest Research* 20:1559-1569.
31. Savage, M., and **T. W. Swetnam**. 1990. Early and persistent fire decline in a Navajo ponderosa pine forest. *Ecology* 70(6):2374-2378.
32. Brown, P. M., M. K. Hughes, C. H. Baisan, **T. W. Swetnam**, and A.C. Caprio. 1992. Giant sequoia ring-width chronologies from the central Sierra Nevada, California. *Tree-Ring Bulletin* 52:1-14.
33. Huante, P., E. Rincon, and **T. W. Swetnam**. 1993. Dendrochronology of *Abies religiosa* in Michoacan, Mexico. *Tree-Ring Bulletin* 50:15-28.
34. **Swetnam, T. W.**, and A. M. Lynch. 1993. Multi-century, regional-scale patterns of western spruce budworm history. *Ecological Monographs* 63(4):399-424).
35. **Swetnam, T. W.** 1993. Fire history and climate change in giant sequoia groves. *Science*. 262:885-889.
36. Brown, P. M., and **T. W. Swetnam**. 1994. A crossdated fire history in a coast redwood forest near Redwood National Park, California. *Canadian Journal of Forest Research* 24:21-31.
37. Goldammer, J. G. and **Swetnam, T. W.** (listed alphabetically with 26 other authors). 1994. Fire in the boreal ecosystems of Eurasia: First results of the Bor Forest Island Fire Experiment, Fire Research Campaign Asia-North (FIRESCAN). *World Resources Review* 6(4):499-523.
38. Allen, C. D., R. Touchan, and **T. W. Swetnam**. 1995. A landscape-scale fire history study supports fire management actions at Bandelier National Monument. *Park Science Summer 1995*, pages 18-19.
39. **Swetnam, T. W.**, B. E. Wickman, H. G. Paul, and C. H. Baisan. 1995. Historical patterns of western spruce budworm and Douglas-fir tussock moth outbreaks in the Northern Blue Mountains, Oregon since A.D. 1700. Research Paper PNW-RP-484. Portland, OR: U. S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 27 p.
40. Ortloff, W., J. G. Goldammer, F. H. Schweingruber, and **T. W. Swetnam**. 1995. Fire history study in a stand of *Pinus ponderosa* Dougl. ex LAWS. in the Santa Rita Mountains, Arizona, U.S.A., by means of tree-ring analysis. *Forstarchiv* 66:206-214. [in German].
41. Gottfried, G. J., **T. W. Swetnam**, C. D. Allen, J. L. Betancourt, and A. L. Chung-McCoubrey. 1995. Chapter 6, Pinyon-juniper woodlands, pages 95 to 132, In D. M. Finch and J. A. Tainter, tech. eds., *Ecology, Diversity, and Sustainability of the Middle Rio Grande Basin*. General Technical Report RM-GTR-268. U. S. Department of Agriculture Forest Service, Rocky Mountain Forest and Range Experiment Station. 186 p.
42. Perkins, D., and **T. W. Swetnam**. 1996. A Dendroecological assessment of whitebark pine (*Pinus albicaulis*) in the Sawtooth-Salmon River region of Idaho. *Canadian Journal of Forest Research* 26:2123-2133.
43. Baisan, C. H., and **T. W. Swetnam**. 1997. Interactions of fire regimes and land use in the Central Rio Grande Valley. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, Research Paper RM-RP-330, 20p.

44. Grissino-Mayer, H. D. and **T. W. Swetnam**. 1997. Multi-century history of wildfire in the ponderosa pine forests of El Malpais National Monument. New Mexico Bureau of Mines & Mineral Resources Bulletin 156:163-171.
45. Grissino-Mayer, H. D., **T. W. Swetnam**, and R. K. Adams. 1997. The rare, old-aged conifers of El Malpais – Their role in understanding climatic change in the American Southwest. New Mexico Bureau of Mines & Mineral Resources Bulletin 156:155-161.
46. **Swetnam, T. W.**, and J. L. Betancourt. 1998. Mesoscale disturbance and ecological response to decadal climatic variability in the American Southwest. *Journal of Climate* 11:3128-3147.
47. **Swetnam, T. W.**, C. D. Allen, and J. L. Betancourt. 1999. Applied historical ecology: Using the past to manage for the future. *Ecological Applications* 9(4):1189-1206.
48. Kaye, M. W. and **T. W. Swetnam**. 1999. An assessment of fire, climate, and Apache history in the Sacramento Mountains, New Mexico, USA. *Physical Geography* 20(4):305-330.
49. Grissino-Mayer, H. D., and **T. W. Swetnam**. 2000. Century scale changes in fire regimes and climate in the Southwest. *The Holocene* 10(2):207-214.
50. Markgraf, V., and **T. W. Swetnam** (listed alphabetically with 7 other authors). 2000. Paleoclimate reconstruction along the Pole-Equator-Pole transect of the Americas. *Quaternary Sciences Reviews* 19:125-140.
51. Speer, J. H., **T. W. Swetnam**, B. E. Wickman, and A. Youngblood. 2001. Changes in pandora moth outbreak dynamics during the past 622 years. *Ecology* 82:679–697.
52. Kitzberger, T., **T. W. Swetnam**, and T. T. Veblen. 2001. Inter-hemispheric synchrony of forest fires and the El Nino-Southern Oscillation. *Global Ecology and Biogeography* 10 (3): 315-326.
53. Barton, A. M., **T. W. Swetnam** and C. H. Baisan. 2001. Arizona pine (*Pinus arizonica*) stand dynamics: local and regional factors in a fire-prone madrean gallery forest of Southeast, Arizona, USA. *Landscape Ecology* 16 (4): 351-369.
54. Morgan, P., C. Hardy, **T. W. Swetnam**, M. G. Rollins, and D. G. Long. 2001. Mapping fire regimes across time and space: Understanding coarse and fine-scale patterns. *International Journal of Wildland Fire* 10 (3-4): 329-342.
55. Díaz, S. C., R. Touchan, and **T. W. Swetnam**. 2001. A tree-ring reconstruction of past precipitation in northwest Mexico. *International Journal of Climatology* (8): 1007-1019.
56. Rollins, M., **T. W. Swetnam** and P. Morgan. 2001. Evaluating a century of fire patterns in two Rocky Mountain wilderness areas using digital fire atlases. *Canadian Journal of Forest Research* 31(12): 2107-2123.
57. Allen, C. D., M. Savage, D. A. Falk, K. F. Suckling, **T. W. Swetnam**, T. Schulke, P. B. Stacey, P. Morgan, M. Hoffman, and J. Klingel. 2002. Ecological restoration of southwestern ponderosa pine ecosystems: a broad perspective. *Ecological Applications* 12(5):1418-1433.
58. Betancourt, J. L., H. D. Grissino-Mayer, M. W. Salzer, and **T. W. Swetnam**. 2002. A test of "annual resolution" in stalagmites using tree rings. *Quaternary Research* 58:197-199.
59. Ryerson, D., **T. W. Swetnam**, and A. M. Lynch. 2003. Tree-ring reconstruction of western spruce budworm outbreaks in the San Juan Mountains of Colorado. *Canadian Journal of Forest Research*. 33:1010-1028.
60. Betancourt J. L, H. D. Grissino-Mayer, M. W. Salzer, and **T. W. Swetnam**. 2003. Reply to Baker and Gentry's comments on "A test of annual resolution in stalagmite using tree rings". *Quaternary Research* 59: 479-479.

61. Westerling, A. L., and **T. W. Swetnam**. 2003. Interannual to decadal drought and wildfire in the Western US. EOS, Transactions of the American Geophysical Union 84(49):545, 554-555.
62. Hessburg, P. F., E. E. Kuhlman, and **T. W. Swetnam**. 2005. Examining the recent climate through the lens of ecology: Inferences from temporal pattern analysis. Ecological Applications 15(2):440-45
63. Westerling, A. L., H. G. Hidalgo, D. R. Cayan, and **T. W. Swetnam**. 2006. Warming and earlier spring increase western U.S. wildfire activity. Science 313:940-943.
64. Kitzberger, T., P. M. Brown, E. K. Heyerdahl, **T. W. Swetnam**, and T. T. Veblen. 2007. Contingent Pacific-Atlantic ocean influence on multi-century wildfire synchrony over western North America. Proceedings of the National Academy of Sciences 104(2):543-548.
65. Margolis, E. Q., **T. W. Swetnam** and C. D. Allen. In press. A stand-replacing fire history in upper montane forests of the Southern Rocky Mountains. Canadian Journal of Forest Research.
66. Kaufmann, M. R., D. Binkley, P. Z. Fulé, M. Johnson, S. L. Stephens and **T.W. Swetnam** 2007. Defining Old Growth for Fire-adapted Forests of the Western United States. Ecology and Society 12 (2): 15. [online] URL:<http://www.ecologyandsociety.org/vol12/iss2/art15/>
67. Iniguez, J.M., **T.W. Swetnam** and S.R. Yool. 2008. Topography affected landscape fire history patterns in southern Arizona, USA. Forest Ecology and Management 256:295-303.
68. Iniguez, J.M., **T.W. Swetnam**, and C.H. Baisan. In Press. Spatially and temporally variable fire regimes in Rincon Peak Sky Island, Arizona. Fire Ecology.

Reviewed Proceedings Papers

69. **Swetnam, T. W.**, and J. H. Dieterich. 1985. Fire history of ponderosa pine forests in the Gila Wilderness, New Mexico. In: J. E. Lotan, B. M. Kilgore, W. C. Fischer, and R. W. Mutch, Tech. Coords., Proceedings-Symposium and Workshop on Wilderness Fire, November 15-18, 1983, Missoula, Montana. USDA Forest Service, General Technical Report INT-182:390-397.
70. **Swetnam, T. W.** 1987. Western spruce budworm outbreaks in northern New Mexico: occurrence and radial growth impacts from 1700 to 1983. In: G. C. Jacoby and J. W. Hornbeck, Compilers, Proceedings of the International Symposium on Ecological Aspects of Tree-Ring Analysis, August 17-21, 1986, Marymount College, Tarrytown, New York, U. S. DOE CONF-8608144, pp. 130-141.
71. **Swetnam, T. W.** 1987. Western spruce budworm outbreaks in Northern New Mexico: A dendroecology case study. In: A. A. Lucier, ed., Tree Rings and Forest Mensuration: How Can They Document Trends in Forest Health?, Proceedings of a workshop, April 9-11, 1987, Tucson, Arizona. National Council of the Paper Industry for Air and Stream Improvement, Technical Bulletin 523.
72. **Swetnam, T. W.** 1990. Fire History and climate in the Southwestern United States in J. S. Krammes, Tech. Coord, Proceedings of Symposium on Effects of Fire in Management of Southwestern U. S. Natural Resources, November 15-17, 1988, Tucson, Arizona. USDA Forest Service, General Technical Report. RM-191:6-17.
73. **Swetnam, T. W.**, and J. L. Betancourt. 1990. ENSO variability and forest fires in the Southwestern United States. In J. L. Betancourt and A. M. MacKay, eds., Proceedings of the Pacific Climate (PACLIM) Workshop, Asilomar, California, March 5-8, 1989: California

- Department of Water Resources, Interagency Ecological Studies Program Technical Report 32:129-134.
74. Hughes, M. K., B. Richards, **T. W. Swetnam**, and C. H. Baisan. 1990. Can a climate record be extracted from giant sequoia tree rings? In J. L. Betancourt and A. M. MacKay, eds., Proceedings of the Pacific Climate (PACLIM) Workshop, Asilomar, California, March 5-8, 1989: California Department of Water Resources, Interagency Ecological Studies Program Technical Report 32:111-114.
  75. Stephenson, N. L., D. J. Parsons, and **T. W. Swetnam**. 1991. Restoring natural fire to the sequoia-mixed conifer forest: Should intense fire play a role? pages 321-337 In Proceedings of 17th Tall Timbers Fire Ecology Conference, Tallahassee Florida, May 18-21, 1989.
  76. **Swetnam, T. W.**, R. Touchan, C. H. Baisan, A. C. Caprio, P. M. Brown. 1991. Giant sequoia fire history in the Mariposa Grove, Yosemite National Park. pages 249-255 In: Yosemite Centennial Symposium: Prospects for the Future, October 13-20, 1990. National Parks Service, Denver Service Center, NPS D-374.
  77. **Swetnam, T. W.**, and P. M. Brown. 1992. Oldest known conifers in the Southwestern United States: Temporal and spatial patterns of maximum age. In: M. R. Kauffman, W. H. Moir, and R. L. Bassett, tech. coords., Old Growth Forests in the Southwest an Rocky Mountain Regions, Proceedings of a Workshop, March 9-13, 1992, Portal, Arizona. USDA Forest Service General Technical Report RM-213:24-38.
  78. **Swetnam, T. W.**, C. H. Baisan, A. C. Caprio, and P. M. Brown. 1992. Fire history in a Mexican oak-pine woodland and adjacent montane conifer gallery forest in southeastern Arizona. In: P. F. Ffolliott, G. J. Gottfried, D. A. Bennett, V. M. Hernandez, A. Ortega-Rubio, and R. H. Hamre, tech. coords., Ecology and Management of Oak and Associated Woodlands: Perspectives in the Southwestern United States and Northern Mexico, April 27-30, 1992, Sierra Vista, Arizona. USDA Forest Service General Technical Report RM-218:165-173.
  79. Lynch, A. M., and **T. W. Swetnam**. 1992. Old-growth mixed conifer and western spruce budworm in the Southern Rocky Mountains. In: M. R. Kauffman, W. H. Moir, and R. L. Bassett, tech. coords., Old Growth Forests in the Southwest an Rocky Mountain Regions, Proceedings of a Workshop, March 9-13, 1992, Portal, Arizona. USDA Forest Service General Technical Report RM-213:66-80.
  80. Perkins, D.L., and **T. W. Swetnam**. 1994. Long-term dynamics of whitebark pine: tree-ring studies in central Idaho. Pages 25 to 29 In: K.C. Kendall, B. Coen, B. Keane, B. Donner, and K. Brewer, tech. coords. Workshop Proceedings: Research and Management in Whitebark Pine Ecosystems, Glacier National Park, Montana, National Biological Survey and USDA Forest Service Intermountain Research Station.
  81. Baisan, C. H., and **T. W. Swetnam**. 1995. Management implications of historical fire occurrence patterns in remote mountains of Southwestern New Mexico and northern Mexico. In: J. K. Brown, R. W. Mutch, C. W. Spoon, and R. H. Wakimoto, tech. coords., Proceedings: Symposium on Fire in Wilderness and Park Management, Missoula, MT, March 30-April 1, 1993., USDA Forest Service General Technical Report INT-320:153-156.
  82. Caprio, A. C., and **T. W. Swetnam**. 1995. Historic fire regimes along an elevational gradient on the west slope of the Sierra Nevada, California. In: J. K. Brown, R. W. Mutch, C. W. Spoon, and R. H. Wakimoto, tech. coords., Proceedings: Symposium on Fire in Wilderness and Park Management, Missoula, MT, March 30-April 1, 1993., USDA Forest Service General Technical Report INT-320:173-179.

83. Grissino-Mayer, H. D., and **T. W. Swetnam**. 1995. Effects of habitat diversity on fire regimes in El Malpais National Monument, New Mexico. In: J. K. Brown, R. W. Mutch, C. W. Spoon, and R. H. Wakimoto, tech. coords., Proceedings: Symposium on Fire in Wilderness and Park Management, Missoula, MT, March 30-April 1, 1993,. USDA Forest Service General Technical Report INT-320:195-200.
84. Grissino-Mayer, H. D., C. H. Baisan, and **T. W. Swetnam**. 1995. Fire history in the Pinaleno Mountains of Southeastern Arizona: Effects of human-related disturbances. In L. DeBano et al. tech. coords., Biodiversity and Management of the Madrean Archipelago: The Sky Islands of Southwestern United States and Northwestern New Mexico, September 19-23, 1994, Tucson, Arizona, USDA Forest Service General Technical Report RM-GTR-264:399-407.
85. Mutch, L., and **T. W. Swetnam**. 1995. Effects of fire severity and climate on ring-width growth of giant sequoia after burning. In: J. K. Brown, R. W. Mutch, C. W. Spoon, and R. H. Wakimoto, tech. coords., Proceedings: Symposium on Fire in Wilderness and Park Management, Missoula, MT, March 30-April 1, 1993,. USDA Forest Service General Technical Report INT-320:241-246.
86. Touchan, R., **T. W. Swetnam**, and H. D. Grissino-Mayer. 1995. Effects of livestock grazing on pre-settlement fire regimes in New Mexico. In: J. K. Brown, R. W. Mutch, C. W. Spoon, and R. H. Wakimoto, tech. coords., Proceedings: Symposium on Fire in Wilderness and Park Management, Missoula, MT, March 30-April 1, 1993,. USDA Forest Service General Technical Report INT-320:268-272.
87. Touchan, R., C. D. Allen, and **T. W. Swetnam**. 1996. Fire history and climatic patterns in ponderosa pine and mixed-conifer forests of the Jemez Mountains, Northern New Mexico. In C. Allen, editor, Fire effects in Southwestern Forests, Proceedings of the Second La Mesa Fire Symposium, Los Alamos, New Mexico, March 29-31, 1994. USDA Forest Service General Technical Report RM-GTR-286:33-46.
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- Albuquerque, NM November 9-13, 1996. Society of American Foresters, Bethesda, MD. P. 222-227.
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97. **Swetnam, T. W.** 1984. Radial growth analysis of western spruce budworm infested Douglas-fir trees on the Carson National Forest, New Mexico. USDA Forest Service, Southwestern Region Forest Pest Management Report R-3 84-11:38-66.
98. **Swetnam, T. W.** 1986. Radial growth losses in Douglas-fir and white fir caused by western spruce budworm in Northern New Mexico: 1700 to 1983. USDA Forest Service, Southwestern Region Forest Pest Management Report R-3 86-2. 61 pp.
99. **Swetnam, T. W.**, C. H. Baisan, P. M. Brown, and A. C. Caprio. 1989. Fire history of Rhyolite Canyon, Chiricahua National Monument. USDI National Park Service, Cooperative Park Service Studies Unit Technical Report No. 32, University of Arizona, Tucson. 38 pp.
100. CIRMOUNT Committee (led by H.F. Diaz, C.I. Millar and 12 authors, including **T. W. Swetnam**). 2006. Mapping New Terrain: Climate Change and America's West. Report of the Consortium for Integrated Climate Research in Western Mountains (CIRMOUNT), Misc. Pub., PSW-MISC-77, Albany, CA, Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture, 29 pp.
101. W.H. Romme, C.D. Allen, J.D. Bailey, W.L. Baker, B.T. Bestelmeyer, P.M. Brown, K.S. Eisenhart, L. Floyd-Hanna, D.W. Huffman, B.F. Jacobs, R.F. Miller, E.H. Muldavin, **T.W. Swetnam**, R.J. Tausch, and P.J. Weisberg. 2008. Historical and modern disturbance regimes, stand structures, and landscape dynamics in piñon-juniper vegetation of the western U.S. Colorado Forest Restoration Institute, Colorado State University, Fort Collins. 35 pp

102. Falk, D., C. Cox, D. Hill, T. McKinnon, E. Rosenberg, K. Siderits, and **T. Swetnam** 2008. Fire on the Landscape: Planning for Communities, Fire, and Forest Health. Report of the Arizona Forest Health Council to the Office of the Governor. Tucson, AZ. 29 pages + vii.
103. Keeley, J.E., G.H. Aplet, N.L. Christensen, S.G. Conard, E.A. Johnson, P.N. Omi, D.L. Peterson, and **T.W. Swetnam**. In Press. Ecological foundations for fire management in North American forest and shrubland ecosystems. USDA Forest Service General Technical Report

Other Publications (opinion-editorials, introductions to special issues, etc.):

104. **Swetnam, T. W.** 1988. Forest fire primeval. *The World and I* 3:236-241.
105. Parsons, D. J., **T. W. Swetnam**, and N. L. Christensen, Jr. 1999. Introduction to Invited Feature on Historical Variability Concepts in Managing Ecosystems. *Ecological Applications* 9(4):1177-1178.
106. **Swetnam, T. W.** 2000. Defusing time bombs. Op-Ed in the Albuquerque Journal, Sunday June 4, 2000
107. **Swetnam, T. W.** 2000. Climate and the western wildfire problem. Op-Ed in the Arizona Daily Star (Tucson), Sunday September 10, 2000.
108. **Swetnam, T. W.** 2002. Fire and climate history in the western Americas from tree rings. *PAGES News*, 10(1) April 2002.
109. Betancourt, J.L., **T. W. Swetnam**, C. Allen, and M. Savage. 2003. Fire in the West: It's no Simple Story, Op-Ed in High Country News, July 7, 2003.
110. **Swetnam, T. W.** 2003. Living with Fire. Op-Ed published in the Arizona Daily Star, and Arizona Republic, Sunday August 10, 2003.
111. Barrett, S. W., **T. W. Swetnam**, and W. L. Baker. 2005. Indian fire use: deflating the legend. *Fire Management Today* 65(3): 31-33.
112. **Swetnam, T. W.** and K. Flessa. 2005. The US needs the best science, not political intimidation of scientists. Guest column in Arizona Daily Star, Sunday July 23, 2005.
113. CIRMOUNT Committee [14 authors including **T.W. Swetnam**]. 2006. Mapping New Terrain: Climate Change and America's West. Report of the Consortium for Integrated Climate Research in Western Mountains (CIRMOUNT), Misc. Pub., PSW-MISC-77, Albany, CA, Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture, 29 pp.
114. **Swetnam, T.W.** 2007. Climate change and the changing landscape. Sky Island Alliance Newsletter, Summer 2007.
115. **Swetnam, T. W.** and R. S. Anderson. 2008. Fire climatology in the western United States: Introduction to special issue. *International Journal of Wildland Fire* 17:1-7.
116. **Swetnam, T. W.** 2008. The perfect firestorm. *Wildland Firefighter* May 2008.
117. **M. Skroch** and **T. Swetnam**. 2008. The public should accept more frequent, but less destructive forest fires. Op-Ed in Arizona Daily Star, Sunday July 6, 2008.

Papers In Review & In Preparation

- Farris, C.A., C.H. Baisan, S.H. Yool, and **T.W. Swetnam**. In preparation. Spatial and temporal corroboration of fire-scar based fire history reconstructions in a frequently burned wilderness area in southern Arizona.

Bigio, E., **T.W. Swetnam**, and C.H. Baisan. In preparation. The integration of tree-ring and alluvial fan records of fire history in the Missionary Ridge Fire in southwestern Colorado, USA. For International Journal of Wildland Fire.

Roos, C. I and **T.W. Swetnam**. In preparation. A comparison of two millennial-length reconstructions of climate predicted fire activity for ponderosa pine forests of the southern Colorado Plateau region, Southwest U.S. for The Holocene.

Bowman, D. and J. Balch (plus 20 other authors, including **T.W. Swetnam**). In preparation. The evolution and diversification of fire on earth. A review for Science.

Romme, W.H., C. D. Allen, J.D. Bailey, W.L. Baker, B.T. Bestelmeyer, P.M. Brown, K.S. Eisenhart, L. Floyd-Hanna, D.W. Huffman, B. Jacobs, R.F. Miller<sup>11</sup>, E.H. Muldavin, T.W. Swetnam, R.J. Tausch, P.J. Weisberg. In revision. Historical and modern disturbance regimes, stands, and landscape dynamics in piñon-juniper vegetation of the Western U.S. Range Ecology & Management.

**Six most frequently cited journal articles, as of January 5, 2009:**

	<u>Thomson ISI Citations</u>	<u>Google Scholar Citations</u>
Swetnam, Allen and Betancourt (1999, #47)	262	404
Swetnam and Betancourt (1998, #46)	263	382
Swetnam (1993, #35)	236	308
Swetnam and Betancourt (1990, #28)	215	291
Allen et al. (2002, #57)	148	260
Westerling et al. (2006, #63)	149	227
Total citations of all papers in database:	2,305	5,181
Average citations per paper	62.30	14.31
h-index	21	30

**SCHOLARLY PRESENTATIONS** (selected, all invited, since 1999 through 2007):

- “Walter Orr Roberts Public Lecture”, Aspen Global Change Institute, Aspen Colorado, August 1999
- “Weaver Lecture” at Auburn University, School of Forestry, Auburn, Alabama, January 20, 2000.
- Departmental seminar at University of California, Davis on fire history and climate, April 19, 2000.
- Lecture to Environmental Law class, Arizona State University Law School, November 13, 2000.
- Departmental seminar at Stanford University, on Forest Fires and Climate in Western US, February 9, 2000.
- National Research Council meeting on Abrupt Climate Change Impacts Meeting, Washington, DC, March 21-23, 2000.
- Seminar at Los Alamos National Laboratory, April 19, 2001 “Fire and Climate in the Southwest”.
- Eurodendro Meeting in Slovenia, June 6-9, 2001.

- Highest II Meeting in Davos, Switzerland, on “Decadal-Scale Climate and Ecological Changes in Southwestern US Mountains”, June 25-28, 2001.
- Keynote at 6<sup>th</sup> International Dendrochronology Conference, Quebec City, Canada, August 27, 2002.
- Departmental seminar at Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, October 25, 2002.
- Keynote talk at Fire & Society workshop, sponsored by Institute for the Study of Planet Earth, Tucson, AZ January 11, 2003.
- Plenary talk at Ecological Integration Symposium, Texas A & M University, College Station Texas, February 22, 2003
- Plenary talk at MTNCLIM/CIRMOUNT meeting, Lake Tahoe, NV, May 24-28, 2003.
- Plenary talk at Forest Health & Biodiversity Symposium, National Council on Science for Sustainable Forestry, Denver, CO, June 4-5, 2003
- Plenary talk at Xeriscape Conference, Albuquerque, NM, October 17, 2003.
- Keynote at “Climate Change Impacts on Forest Ecosystems Symposium”, Sedona, AZ, February 10, 2004.
- Plenary talk at Madrean Archipelago Conference, sponsored by US Forest Service, and others, May 12, 2004.
- Departmental seminar, University of Minnesota, Geography, April 15, 2005.
- Plenary talk on fire climatology to USGS Fire Science Symposium, December 5-9, 2005
- Departmental seminar presented at Oklahoma State University, April 11, 2006.
- Plenary talk at National Council on Science for Sustainable Forestry, Denver, CO, April 26, 2006
- Departmental seminar at Colorado State University, Fort Collins, CO, April 28, 2006.
- Academic Program Chair for the 7<sup>th</sup> International Conference on Dendrochronology, Beijing, China, June 11-17 2006.
- Plenary talk at biennial American Quaternary Association meeting, Bozeman, MT, August 17, 2006.
- Departmental seminar, Norwegian University of Life Sciences, Oslo, September 13, 2006
- Keynote talk to 3<sup>rd</sup> International Fire Ecology and Management Conference, San Diego, CA, November 13-17, 2006.
- Departmental seminar, University of Utah, March 1, 2007.
- Departmental seminar, Northern Arizona School of Forestry, Flagstaff, AZ, October 19, 2007.
- Keynote, Western International Forest Disease Work Conference, Sedona, AZ, October 17, 2007.
- Departmental seminar, University of Quebec, Montreal, November 7, 2007

**RESEARCH GRANTS & CONTRACTS (1983 to 2008)**

Project Title	Funding Source	Co-PIs,PIs*, Students & Postdocs#	Duration	Funding Amount
Radial Growth Analysis of Western Spruce Budworm Damage	USDA Forest Service Southwestern Region		1/83-1/84	\$7,600
Development of a manuscript describing the field and techniques for assessing effects of western spruce budworm defoliation on radial growth of infested trees	USDA Forest Service Pacific Northwest Forest Experiment Station		1/84-12/84	\$3,000
Assessment of Impacts to Tree Radial Growth Caused by Western Spruce Budworm Defoliation	USDA Forest Service Southwestern Region, and Canada-United States Spruce Budworm Research Program		1/84-12/85	\$12,895
Radial Growth Assessment of Defoliated Trees in the Colorado Front Range	USDA Forest Service, Rocky Mountain Region		5/85-8/86	\$9,582
Development of a manuscript on dendroecology	Utility Air Regulatory Group, Acid Deposition Committee, Washington, D C	HC Fritts*	06/86-06/87	\$4,000
Evaluation of Severity of Spruce Budworm in Mixed Conifer Habitat Types of the Southwest	USDA Forest Service, Rocky Mountain Forest and Range Experiment Station		8/86-9/87	\$15,000
Preliminary Tree -Ring Chronology Development of Redwood National Park	USDI National Park Service, Redwood NP		1/87-4/87	\$3,000
Dendrochronological Assessment of the Severity of Western Spruce Budworm Outbreaks	USDA Forest Service, Rocky Mountain Forest And Range Experiment Station	A Lynch	4/87-12/88	\$27,000
Giant Sequoia Fire History: A Feasibility Study	USDI National Park Service, Sequoia National Park	C Baisan	7/87-6/88	\$19,711
Analysis of Growth Trends and Variations in Conifers in the Southwestern United States	Environmental Protection Agency, Western Conifers Research Cooperative, National Acid Precipitation Program	D A Graybill*	7/87-2/90	\$222,327
Fire History Study of Rhyolite Canyon, Chiricahua National Monument	USDI National Park Service, Southern Arizona Group Office	C Baisan	9/87-9/88	\$9,988
Tree-Ring Dating of Peeled Ponderosa Pines from Dolores River, Colorado	Goodson and Associates, Denver Colorado		11/87-3/88	\$1,000
Dating of Fire History Specimens from Bandelier National Monument	USDI National Park Service, Bandelier NM	C Baisan	3/88-9/88	\$4,500
Tree-Ring Reconstruction of Giant Sequoia Fire Regimes	USDI National Park Service, Sequoia, Kings Canyon and Yosemite NPS	C Baisan, T Caprio, R Touchan#	7/88-12/91	\$195,260
Tree-Ring Dating of Fire Scarred White Bark Pine from Yellowstone	University of Idaho	C Baisan	4/89-6/89	\$2,000
Tree-Ring Dating of Fire Scarred Coast Redwood Specimens	USDI National Park Service, Redwood NP	P Brown#	8/89-9/89	\$4,000

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Tree-Ring Dating of Fire Scarred Ponderosa Pine from Walnut Canyon National Monument, Arizona	USDI National Park Service, Southern Arizona Group Office	C Baisan	10/89-3/90	\$2,700
Reconstruction of Fire and Flood History in Rhyolite Canyon, Chiricahua National Monument, Arizona	Southwest Parks and Monuments Association	C Baisan	10/89-12/90	\$5,048
Tree-Ring Investigation to Reconstruct Western Spruce Budworm Outbreak History in the Sacramento Mountains, New Mexico	USDA Forest Service, Southwestern Region Office	A Lynch	5/90-6/92	\$9,950
Fire History for Northern New Mexico	USDI National Park Service, Bandelier NM and USDA National Forest Service, Santa Fe NF	R Touchan#, C Allen	9/90 5/91	\$38,000
Assessment of Phenological Growth Patterns in Conifer Species in Chiricahua National Monument, Arizona	Southwest Parks and Mon Assoc	C Baisan	10/90-12/93	\$16,313
A tree-ring history of western spruce budworm and Douglas-fir tussock moth history in the Blue Mountains, Oregon	US Forest Service, Pacific Northwest Research Station	Boyd Wickman, C Baisan	11/90-06/95	\$42,000
Dendroecological Research on Mt Graham	USDA Forest Service	H Grissino-Mayer#	5/91-2/92	\$4,048
Fire history and climatology in the southern and central Sierra Nevada	National Park Service, Global Change Program	C Baisan, K Morino#	6/91-5/97	\$302,887
Dendrochronology and Paleoenvironmental Research of El Malpais National Monument	USDI National Park Service, El Malpais NM	H Grissino-Mayer#	6/91-6/94	\$38,677
Organ Mountain Fire History	State of New Mexico, Natural Heritage Program, and The Nature Conservancy	K Morino#	12/91-6/94	\$39,891
Radial Growth Response of Giant Sequoia to High Intensity Fire	State of California, Department of Forestry	T Caprio, L Mutch#, C Baisan	1/92-12/93	\$13,284
Fire history of Desert-Island Mountain Ranges in the Mexican Borderlands Region	The Nature Conservancy	C Baisan	3/92-12/94	\$56,276
Long-term Dynamics of Whitebark Pine in the Sawtooth Wilderness, Idaho	USDA Forest Service, Intermountain Forest Experiment Station	D Perkins#	5/92-6/96	\$41,000
The influence of Fire-Climate Interactions on the Growth of Giant Sequoias	USDI National Park Service, Interagency Fire Center	L Mutch#	6/92-12/93	\$31,416
Sandia and Manzano Mountain Fire History	USDA Forest Service, Cibola NF	C Baisan	9/92-9/95	\$25,000
Climatic variation in the Sonoran desert from instrumental climate data and tree rings	National Biological Service and National Park Service	D Meko*, C Baisan	3/93-3/98	\$215,000
Fire History of the Calaveras Giant Sequoia Groves	State of California, State Parks Department	C Baisan	7/93-12/98	\$65,000
Dendrochronology/Paleoenvironmental research at Bandelier National Monument	National Park Service	C Allen, C Baisan	7/93-6/94	\$7,400
Paleofire and climate history in Siberia	National Science Foundation		7/93-12/94	\$15,000
Role of climate in masting, recruitment and mortality of pinyon pine	US Forest Service, Rocky Mountain Research Station	JL Betancourt, G Gottfried	6/94-6/96	\$48,500

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A millennial length reconstruction of climate for the middle Rio Grande Basin from tree rings	US Forest Service, Rocky Mountain Research Station	H Grissino-Mayer#, C Baisan	6/94-5/98	\$20,000
The long-term role of wildfire and spruce bark beetle outbreaks in forest dynamics at the Kenai National Wildlife Refuge, Alaska	US Fish & Wildlife Service	C L Fastie#	7/94-5/97	\$69,720
Mapping past and potential fire regimes in Rocky Mountain wilderness landscapes	US Forest Service, Aldo Leopold Research Institute	P Morgan, M Rollins	8/94-5/98	\$76,609
Regional dendroecology research	US Forest Service, Rocky Mountain Research Station	C Baisan, K Morino#, RA Abolt#, M Wilkinson#, S Danzer#, D Ryerson#	9/94-9/99	\$217,810
Fire regime reconstruction in the Southwestern borderlands	US Forest Service, Rocky Mountain Research Station	M Kaib#, C Baisan	9/94-8/97	\$78,849
Development of dendroclimatic reconstructions	Department of Defense and US Geological Survey	H Grissino-Mayer#	2/95-2/95	\$9,028
Develop tree-ring chronologies from the areas of west Texas, northern Mexico, and southern New Mexico	Department of Defense and US Geological Survey	H Grissino-Mayer#	7/95-2/96	\$46,840
Expanded fire regime studies in the Jemez Mountains, New Mexico	National Biological Service	C Allen, C Baisan, K Morino#	8/95-1/97	\$35,692
A tree-ring reconstruction of pandora moth population history in central and southern Oregon	US Forest Service, Pacific Northwest Research Station	J Speer#, M Hughes, G Garfin, A Youngblood, C Baisan	9/95-12/97	\$45,800
Expanded fire history in Chiricahua National Monument	National Park Service, Southern Arizona Group Office	C Baisan, S Dzer#	8/96-12/98	\$29,000
Fire regime assessment for Coronado National Memorial	National Park Service, Southern Arizona Group Office	C Baisan, K Morino#	8/96-12/98	\$12,500
Climate-fire ecosystem linkages on decadal-centennial time scales in the northern Rockies	National Science Foundation, Geography and Atmospheric Dynamics Programs	Kurt Kipfmuller#, M Rollins#, P Morgan, C Whitlock	8/97-7/00	\$196,463
Fire effects on Huachuca mountain mixed-conifer forests and associated species of concern	The Nature Conservancy	K Morino#	7/98-10/98	\$4,300
Climate change and the stability of sky-island conifer populations in the Sonoran desert	US Geological Survey, Biological Resources Division, Global Change program	D Meko*, J Kirkby#, C Baisan	8/98-12/99	\$19,944
Fire History Inventories-Assist Administration Planning for the Tonto National Forest, Central Arizona	Tonto National Forest, US Forest Service	M Kaib#	8/98-8/03	\$40,000
Crown fire histories, bog fire scar histories and drought-induced ecotone shifts	US Geological Survey, National Biological Service, and Global Change Program	C Baisan, C Allen, S Anderson	4/99-12/04	\$245,621

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Sierra Nevada forest dynamics	US Geological Survey, National Biological Service, Global Change Program	C Baisan	5/99-4/04	\$165,056
Fire history and restoration research in Monument Canyon Research Natural Area	USDA Forest Service, Interagency Joint Fire Science Program	D Falk#	7/99-3/03	\$111,332
Pinyon Juniper woodland fire history studies in southern New Mexico	Department of Defense and the University of New Mexico	C Baisan, E Muldavin	10/99-12/03	\$25,200
Tree-Ring assessment of tent caterpillar outbreaks in aspen stands on northern New Mexico	US Forest Service, Rocky Mountain Research Station	C Baisan, A Lynch, I Garcia-Gonzales	9/00-4/1/03	\$5,970
Climatic and Human Impacts on Fire Regimes in Forests and Grasslands of the U S Southwest: Assessing the Consequences of Interactions between Human Activities and a Changing Climate	FY 2000 Science-Achieve Results STAR Program, National Center for Environmental Research, Environmental Protection Agency	BMorehouse* J Overpeck, S Yool, B Orr, G Ctopherson	11/00-10/03	\$1,260,993
The Monument Canyon Restoration Program: Reducing extreme fire risk & conducting research in an old-growth New Mexico Ponderosa pine forest	USDA Forest Service, Collaborative Forest Restoration Program	D Falk#	10/01-9/05	\$344,824
Landscape Fire History Patterns in the Sky Islands of Southeastern Arizona	Rocky Mountain Research Station, US Forest Service	J Iniguez#, C Baisan	3/13/02-12/31/2004	\$79,421
Dissertation Research: Ecological effects of temporal and spatial variability in the disturbance regime of an old-growth Ponderosa Pine Forest	Ecological Studies Program, NSF	D Falk#	6/02-5/03	\$5,108
ESA Program Chair Assistant and Expenses	Ecological Society of America		12/02-11/03	\$59,000
Paleofire History Workshop, Flagstaff Arizona	NOAA Offices of Global Programs , US Forest Service, Pac NW Research Station , PAGES, Inter-American Institute , and Joint Fire Sciences Program	C Whitlock, S Anderson	03/23-28/02	\$55,000
A Fire-Climate Synthesis in the Western United States	Western Mountain Initiative, USGS Global Change Program	C Baisan	8/04-12/06	\$48,979
Comparing Fire scar analysis, fire atlas records and fire simulations in the Saguaro-Rincon Mountains Wilderness	Aldo Leopold Wilderness Research Institute, US Forest Service	C Farris# , C Baisan	09/01-12/05	\$91,961
FSML: Promoting Biological Research on the Colorado Plateau with the Merriam-Powell Research Station	National Science Foundation DBI-0224851	M Wagner*, J Collins, S Smith (all funds to NAU)	9/02-8/05	\$249,010
Extension to the International Multiproxy Paleofire Database	USDA Forest Service	C Woodhouse, P M Brown	9/04-9/06	\$3,000
Variability, Social Vulnerability and Public Policy in the Southwestern US -- Phase 2, also known as the Climate Assessment for the Southwest	NOAA Office of Global Programs Grant NA16GP2578	J Overpeck*, Swetnam was one of nine co-PIs	6/02-05/07	\$4,452,000
Response of western mountain ecosystems to climate variability and change	US Geological Survey	C Baisan	9/06-03/08	\$29,218

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Multi-century reconstruction of chaparral fire history using fire-scarred bigcone Douglas-fir in three southern California National Forests	USDA Forest Service, Interagency Joint Fire Science Program	K Lombardo#, C Baisan, and M Borchert	10/06-09/09	\$130,000
Fire regimes of montane grasslands of the Valles Caldera National Preserve, New Mexico	USDA Forest Service, Interagency Joint Fire Science Program	D Falk*, C Allen, B Parmenter	11/06-09/09	\$256,929
Fire history and disturbance interactions in the Pinaleño Mountains, AZ	USDA Forest Service, Rocky Mountain Research Station	D Falk*, A M Lynch	10/06-09/09	\$215,000
Fire history and stream flow reconstruction in the Santa Fe Watershed	City of Santa Fe, NM	Ellis Margolis#, C D Allen	11/07-12/08	\$102,337
Decision Support for Defining Historical Fire Regimes: The International Multiproxy Paleofire Database	Science Foundation Arizona	C Woodhouse* P M Brown	01/07-01/9	\$71,195
Catalina-Rincon-FireScope	US Forest Service, Coronado NF	D Falk*	05/07-0509	\$135,000
Exploring integrated natural-cultural-interpretive questions through tree-ring analyses	National Park Service, Sonoran Desert Inventory & Monitoring Network	J Balmat, C Baisan	6/08-3/10	\$10,000
<b>Total Funding as PI</b>				<b>\$3,768,493</b>
<b>Total Funding as Co-PI</b>				<b>\$6,844,469</b>
<b>Total of All Funding</b>				<b>\$10,612,962</b>

as of 08/08/08