

Publications (to July 26, 2004)

C. DAVID WHITEMAN

BOOKS AND MONOGRAPHS

Whiteman, C. D., 2000: *Mountain Meteorology: Fundamentals and Applications*. Oxford University Press, New York, 355pp.

Whiteman, C. D., 1990: Observations of Thermally Developed Wind Systems in Mountainous Terrain. Chapter 2 in *Atmospheric Processes Over Complex Terrain*, (W. Blumen, Ed.), *Meteorological Monographs*, **23**, no. 45. American Meteorological Society, Boston, Massachusetts, 5-42.

JOURNAL AND OTHER PEER-REVIEWED ARTICLES

Princevac, M., H. J. S. Fernando, and C. D. Whiteman, 2004: Turbulent entrainment into natural gravity-driven flows. *J. Fluid Mechanics*. Submitted.

Haiden, T., and C. D. Whiteman, 2004: Katabatic flow mechanisms on a low-angle slope. Submitted to *J. Appl. Meteor.* In press.

Whiteman, C. D., S. Eisenbach, B. Pospichal, and R. Steinacker, 2004: Comparison of vertical soundings and sidewall air temperature measurements in a small Alpine basin. *J. Appl. Meteor.* In press.

Zhong, S., C. D. Whiteman, and X. Bian, 2004: Diurnal evolution of three-dimensional wind and temperature structure in California's Central Valley. *J. Appl. Meteor.* In press.

Banta, R. M., L. S. Darby, J. D. Fast, B. D. Orr, J. Pinto, W. J. Shaw, and C. D. Whiteman, 2004: Nocturnal low-level jet in a mountain basin complex. I. Evolution and effects on local flows. *J. Appl. Meteor.* In press.

Whiteman, C. D., T. Haiden, B. Pospichal, S. Eisenbach, and R. Steinacker, 2004: Minimum temperatures, diurnal temperature ranges and temperature inversions in limestone sinkholes of different size and shape. *J. Appl. Meteor.*, **43** (8), 1224-1236.

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Zhong, S., X. Bian, and C. D. Whiteman, 2003: Time scale for cold-air pool breakup by turbulent erosion. *Meteor. Z.*, **12**, 229-233.

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CONFERENCE PROCEEDINGS

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Doran, J. C., T. W. Horst, and C. D. Whiteman, 1987: Wind and Temperature Structure on the Slopes of a Mountain Valley. Preprints, Fourth Conference on Mountain Meteorology, August 25-28, 1987, Seattle, Washington. American Meteorological Society, Boston, Massachusetts, 48-51.

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Whiteman, C. D., and S. Barr, 1984: Atmospheric Mass Budget for a Deep, Narrow Valley in Colorado. Extended Abstracts, Third Conference on Mountain Meteorology, October 16-19, 1984, Portland, Oregon. American Meteorological Society, Boston, Massachusetts, 61-64.

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Whiteman, C. D., and K. J. Allwine, 1983: Time-Dependent Model of Pollutant Transport and Diffusion in Mountain Valleys. Extended Abstracts Sixth Symposium on Turbulence and Diffusion, March 22-25, 1983, Boston, Massachusetts. American Meteorological Society, Boston, Massachusetts, 173-176.

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Allwine, K. J., and C. D. Whiteman, 1983: A New Model for Mesoscale Pollutant Transport in Complex Terrain. Proceedings of the Air Pollution Control Association Pacific Northwest International Section Annual General Meeting, Vancouver, B.C., November 15-17, 1982, 1B-2.1 through 1B-2.5.

Laulainen, N. S., C. D. Whiteman, and W. E. Davis, 1981: Mixing Layer Growth and Background Air Quality Measurements Over the Colorado Oil Shale Area. Preprints, Second Conference on Mountain Meteorology, November 9-12, 1981, Steamboat Springs, Colorado. American Meteorological Society, Boston, Massachusetts, 165-172.

Orgill, M. M., R. I. Schreck, and C. D. Whiteman, 1981: Synoptically-Driven Down-Slope Winds and Their Effects on Local Nocturnal Drainage Airflow in the Geysers Geothermal Resource Area. Preprint, Second Conference on Mountain Meteorology, November 9-12, 1981, Steamboat Springs, Colorado. American Meteorological Society, Boston, Massachusetts, 185-192.

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Whiteman, C. D., and T. B. McKee, 1980: Valley Wind Systems Under Temperature Inversion Conditions. Proceedings of Symposium on Intermediate Range Atmospheric Transport Processes and Technology Assessment, October 1-3, 1980, Gatlinburg, Tennessee, 351-358.

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Whiteman, C. D., and T. B. McKee, 1980: A Time Dependent Model of Temperature Inversion Structure in Mountain Valleys. Proceedings of the AMS/APCA Second Joint Conference on Applications of Air Pollution Meteorology. American Meteorology Society, Boston, Massachusetts, 526-531.

Whiteman, C. D., and T. B. McKee, 1979: Air Pollution Implications of Inversion Descent in Mountain Valleys. Preprints, Joint Conference on Applications of Air Pollution Meteorology, American Meteorology Society, Boston, Massachusetts, 146-153.

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Fox, D. C., G. Wooldridge, T. B. McKee, and C. D. Whiteman, 1976: An Experimental Study of Mountain Meteorology. Preprint Volume, Third Symposium on Atmospheric Turbulence, Diffusion and Air Quality, Raleigh, North Carolina. American Meteorological Society, Boston, Massachusetts, 444-448.

PRESENTATIONS

Whiteman, C. D., 2004: Weather Effects on Wildfires: 1) Mountain Weather Phenomena and Their Recognition and 2) Thermally Driven Winds. Two workshop presentations of 1-hour each. National Weather Service Forecast Office, Tucson, Arizona, November, 2004. Invited presentation.

Whiteman, C. D., 2004: Temperature Inversions in Limestone Sinkholes of the Eastern Alps. Seminar series, Meteorology Department, University of Utah, Salt Lake City, 3 June 2004.

Whiteman, C. D., 2004: Effects of Complex Terrain Meteorology on Wildfire Behavior. National Weather Service Forecast Office, Spokane, Washington, May 25, 2004. Invited presentation.

Whiteman, C. D., 2004; Temperature Inversion Buildup and Breakup in Small Basins of the Eastern Alps. Seminar series, Geosciences Department, University of Oslo, Oslo, Norway, 5 May 2004:

Whiteman, C. D., 2004: Temperature Inversion Buildup and Breakup in Small Basins of the Eastern Alps. Seminar series, Geophysical Institute, University of Bergen, Norway, 10 May 2004.

Whiteman, C. D., 2004: Diurnal Thermally Driven Mountain Wind Systems. National Fire Weather Forecasters Training Course S-591, National Interagency Fire Center, National Weather Service, 9 March 2004, Boise, Idaho. Invited presentation.

Whiteman, C. D., 2004: Terrain Forced Mountain Winds. National Fire Weather Forecasters Training Course S-591, National Interagency Fire Center, National Weather Service, 9 March 2004, Boise, Idaho. Invited presentation.

Whiteman, C. D., 2004: Temperature Inversion Buildup and Breakup in Small Basins in the Eastern Alps. NOAA/ERL seminar series, Boulder, Colorado, 11 February 2004. Invited presentation.

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Whiteman, C. D., 2004: Temperature Inversions in Small Basins of the Eastern Alps. Department of Geosciences seminar series, University of Houston, Houston, Texas, 13 February 2004. Invited presentation.

Whiteman, C. D., 2003: Meteorological Explorations of Sinkholes in the Rocky Mountains and Eastern Alps. Seminar series, Desert Research Institute, Reno, Nevada, 3 December 2003. Invited presentation.

Whiteman, C. D., 2003: Mountain Winds and Thermally Driven Winds in Complex Terrain. Two workshop presentations of 1-hour each. National Weather Service Forecast Office. Las Vegas, Nevada, 1 December 2003. Invited presentations.

Whiteman, C. D., 2003: Weather and Climate of the Columbia Basin. Columbia Basin College, Science 110 class, Natural History of the Columbia Basin, 17 October 2002. Invited presentation.

Whiteman, C. D., 2003: Meteorological Explorations of Small Basins in the Rocky Mountains and Eastern Alps. Frontiers in Geoscience Colloquium Series, Los Alamos National Laboratory, Los Alamos, New Mexico, 4 September 2003. Invited presentation.

Whiteman, C. D., 2003: General Principles and Observations of Diurnal Wind Systems in Mountainous Terrain. Summer School of Mountain Meteorology 2003, Trento, Italy, 18-22 August 2003. Series of 5 lectures, available at www.unitn.it/convegna/ssmm_lecture.htm. Invited presentations.

Whiteman, C. D., 2003: Mountain Winds and Thermally Driven Winds in Complex Terrain. Two workshop presentations of 1-hour each. National Weather Service Forecast Office. Pocatello, Idaho. 25 April 2003. Invited presentations.

Whiteman, C. D., 2003: The Peer-Review Process for Journal Manuscripts and Scientific Proposals. Short Course on Technical Writing of Scientific Publications and Proposals. Annual Meeting, American Meteorological Society, Long Beach, California, 9 February 2003. Invited presentation.

Whiteman, C. D., B. Pospichal, and S. Eisenbach, 2002: Cold Air Pools and Minimum Temperatures in Limestone Sinkholes of the Eastern Alps. Atmospheric Sciences Seminar Series, PNNL, 5 December 2002.

Whiteman, C. D., 2002: Weather and Climate of the Columbia Basin. Columbia Basin College, Science 110 class, Natural History of the Columbia Basin, 1 November 2002. Invited presentation.

Haiden, T., and C. D. Whiteman, 2002: Analytical Modeling of Slope Flows. VTMX Annual Meeting, 17-19 September 2002, Salt Lake City, UT.

Whiteman, C. D., S. Zhong, X. Bian and T. Haiden, 2002: Slope Flows and Cold Air Pools. VTMX Annual Meeting, 17-19 September 2002, Salt Lake City, UT.

Zhong, S., and C. D. Whiteman, 2002: Numerical Simulations of Downslope Flows Observed during the VTMX Slope Experiment. VTMX Annual Meeting, 17-19 September 2002, Salt Lake City, UT.

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Whiteman, C. D., 2002: The Buildup of Cold Air Pools in Limestone Sinkholes. University of Munich, Theoretical Meteorology Institute, Munich, Germany, 5 June 2002. Invited seminar.

Whiteman, C. D., 2002: Cold Pool Buildup in a Small Basin in Utah. University of Freiburg, Meteorological Institute, Freiburg, Germany, 15 May 2002. Invited seminar.

Whiteman, C. D., 2002: Buildup of a cold air pool in a small, high-altitude basin. University of Washington Atmospheric Sciences seminar series, 5 April 2002. Invited seminar.

Whiteman, C. D., S. Zhong, and T. Haiden, 2002: Recent Observations of Downslope Flows on a Low-Angle Slope near Salt Lake City, Utah. The Slope Flow Workshop, Corvallis, OR, 20 January 2002. Invited presentation.

Zhong, S., J. D. Fast, and C. D. Whiteman, 2002: How Well Can We Simulate Drainage Flows in a Realistic Setting? The Slope Flow Workshop, Corvallis, OR, 20 January 2002. Invited presentation.

Whiteman, C. D., 2002: Katabatic Flows on a Low-Angle Slope in Utah's Salt Lake Valley. University of British Columbia, Department of Earth and Ocean Sciences seminar series, Vancouver, Canada, 8 January 2002. Invited presentation.

Whiteman, C. D., 2001: Temperature Inversions and Thermally Driven Wind Systems in Valleys and Basins of the Western United States. Geophysical Fluid Dynamics Institute Colloquium, Florida State University, Tallahassee, Florida, 3 December 2001. Invited seminar.

Whiteman, C. D., 2001: The Cold Air Pool in a Limestone Sinkhole in Utah -- How Does the Air Get So Cold?. Meteorology Department Seminar Series, Florida State University, Tallahassee, Florida, 4 December 2001. Invited seminar.

Whiteman, C. D., S. Zhong, W. J. Shaw, J. M. Hubbe, and X. Bian, 2001: Cold Pools in the Columbia Basin. National Weather Service Forecast Office, Pendleton, Oregon, 13 November 2001. Invited presentation.

Zhong, S., C. D. Whiteman, W. J. Shaw, J. M. Hubbe, and X. Bian, 2001: Meteorological Processes Leading to Cold Pool Formation and Destruction in the Columbia Basin. National Weather Service Forecast Office, Pendleton, Oregon, 13 November 2001. Invited presentation.

Whiteman, C. D., 2001: Mountain Wind Systems. Eighth Annual Workshop on Weather Prediction in the Intermountain West: 2002 Olympic Games Winter Weather, 2 November 2001. Powerpoint presentation on web. Invited presentation.

Whiteman, C. D., 2001: Cold Air Pool Research in the United States. Seminar series, Physics Department, University of Ljubljana, Ljubljana, Slovenia, 24 October 2001. Invited seminar.

Whiteman, C. D., 2001: Cold Air Pools in the Western United States: Their Structure and Evolution. Seminar Series, Department of Meteorology and Geophysics, University of Vienna, Vienna, Austria, 10 October 2001. Invited seminar.

Whiteman, C. D., 2001: Columbia Basin Weather. Columbia Basin College, Science 110 class, Natural History of the Columbia Basin, 28 September 2001. Invited presentation.

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Whiteman, C. D., and S. Zhong, 2001: Analysis and Modeling of Slope Flow Structure and Its Evolution. DOE/VTMX Analysis Meeting, Salt Lake City, Utah, 11-13 September 2001.

Whiteman, C. D., 2001: The Persistent Cold Pool in the Salt Lake Valley in January 2001. DOE/VTMX Analysis Meeting, Salt Lake City, Utah, 11-13 September 2001.

Whiteman, C. D., and X. Bian, 2001: Intermountain Basin Influences on Cold Pools in the Salt Lake Valley. DOE/VTMX Analysis Meeting, Salt Lake City, Utah, 11-13 September 2001.

Whiteman, C. D., G. McMeeking, S. Powell, and C. Clements, 2001: Evolution of the Nocturnal Atmospheric Boundary Layer Over a Columbia Basin Vineyard. DOE Global Change Education Program SURE/GREF End of Summer Workshop, PNNL, 20 August 2001.

Whiteman, C. D., 2001: An Overview of the Peer Review Process for Scientific Journals. DOE Global Change Education Program SURE/GREF Orientation and Workshop, Indiana University, 16 June 2001. Invited presentation.

Whiteman, C. D., 2001: Environmental Meteorology Program Overview. DOE Global Change Education Program SURE/GREF Orientation and Workshop, Indiana University, 16 June 2001. Invited presentation.

Whiteman, C. D., 2001: The Special Meteorology of Mountain Areas. New Zealand Meteorological Service, Wellington, New Zealand, 10 April 2001. Invited presentation.

Whiteman, C. D., 2001: The Scientific Peer Review Process. Department of Geography Research Day, Riccarton House, Christchurch, New Zealand, 9 February 2001. Invited presentation.

Whiteman, C. D., 2001: Cold Pools in the Columbia Basin, USA. Geography Department Seminar Series, University of Canterbury, Christchurch, New Zealand, 28 February 2001. Invited seminar.

Whiteman, C. D., 2001: Mountain Meteorology and Turbulence. Symposium on Mountain Flight Instruction, 17 March 2001, Christchurch, New Zealand. Sponsored by New Zealand Civil Air Authority. Two-hour invited presentation.

Whiteman, C. D., 2001: Mountain Meteorology and Turbulence. Symposium on Mountain Flight Instruction, 18 March 2001, Auckland, New Zealand. Sponsored by New Zealand Civil Air Authority. Two-hour invited presentation.

Whiteman, C. D., 2001: Mechanisms for the Development of Cold Air Pools in the Columbia Basin, USA. National Institute for Water and Atmospheric Research Seminar Series, Wellington, New Zealand, 9 April 2001. Invited Presentation.

Whiteman, C. D., 2001: The Special Meteorology of Mountain Areas. New Zealand Meteorological Service Seminar Series, Wellington, New Zealand, 10 April 2001. Invited Presentation.

Whiteman, C. D., 2001: The Special Meteorology of Mountain Areas. Canterbury Branch, Meteorological Society of New Zealand, Christchurch, New Zealand, 19 April 2001. Invited Presentation.

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Whiteman, C. D., 2000: Columbia Basin Weather. Presentation to Columbia Basin College, Science 110 class, Natural History of the Columbia Basin, 17 November 2000. Invited presentation.

Whiteman, C. D., 2000: DOE's Environmental Meteorology Program. GCEP Orientation and Short Course Workshop, Tulane University, New Orleans, LA, 16 June 2000. Invited presentation.

Whiteman, C. D., and J. Whiteman, 2000: An Introduction to the Publication Process for Scientific Papers. GCEP Orientation and Short Courses Workshop, Tulane University, New Orleans, LA, 16 June 2000. Invited presentation.

Clements, C. B., J. D. Horel, and C. D. Whiteman, 1999: The Role of Slope Flows on the Evolution of Cold Air Pools in Basins. AGU Annual Meeting, 13-17 December 1999, San Francisco, CA. Abstract in reprint volume.

Clements, C. B., J. D. Horel, and C. D. Whiteman, 1999: The Role of Slope Flows on the Evolution of Cold Air Pools in Basins. Poster presentation, 5th Intermountain Weather Workshop, 4 November 1999, Salt Lake City, UT.

Whiteman, C. D., and J. Whiteman, 1999: The Journal Review Process—An Editor's Perspective. Atmospheric Sciences seminar series, 28 October 1999.

Clements, C. B., J. D. Horel, and C. D. Whiteman, 1999: The Role of Slope Flows on the Evolution of Cold Air Pools in Basins. Poster presentation, GCEP Workshop, 25-27 August 1999, Argonne, IL. VTMX Science Team Meeting, 14-16 September 1999, Salt Lake City, UT.

Whiteman, C. D., 1999: The Buildup and Breakdown of a Wintertime Cold Pool in the Columbia Basin. Atmospheric Sciences Programme Seminar Series, University of British Columbia, Vancouver, BC, 21 June 1999.

Whiteman, C. D., J. M. Hubbe, W. J. Shaw, G. Mayr, E. Dreiseitl, and R. Mayr, 1999: The Temperature Data Logger - A Tool for Investigating the Spatial Structure of Foehn Break-ins and Valley Cold Pools. 1999 Annual Meeting, Mesoscale Alpine Programme, Appenzell, Switzerland, 10 June 1999.

Whiteman, C. D., 1999: Evolution of Cold Pool Structure in the Columbia Basin. University of Innsbruck, Department of Meteorology and Geophysics Seminar Series, 14 June 1999. Invited presentation.

Whiteman, C. D., 1999: An Introduction to Mountain Meteorology and Fire Weather Forecasting. Billings WSFO, Billings, Montana, 28 April 1999. Invited presentation.

Whiteman, C. D., 1999: An Introduction to Mountain Meteorology and Fire Weather Forecasting. Great Falls WSFO, Great Falls, Montana, 27 April 1999. Invited presentation.

Whiteman, C. D., 1999: An Introduction to Mountain Meteorology and Fire Weather Forecasting. Missoula WSFO, Missoula, Montana, 26 April 1999. Invited presentation.

Whiteman, C. D., 1999: Mountain Meteorology and Fire Weather Forecasting. Pendleton WSFO, Pendleton, Oregon, 12 April 1999. Invited presentation.

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Whiteman, C. D., 1999: An Introductory Survey of Mountain Meteorology. Fluid Dynamics Program Seminar Series, Arizona State University, Tempe, Arizona, January 27, 1999. Invited seminar.

Whiteman, C. D., 1998: Thermally Driven Flows in Mountainous Terrain. NOAA/NWS Training Course, Medford, OR, 2 September 1998. Invited presentation.

Whiteman, C. D., 1998: Mechanical Flows in Mountainous Terrain. NOAA/NWS Training Course, Medford, OR, 2 September 1998. Invited presentation.

Whiteman, C. D., 1997: Wintertime Meteorology of the Grand Canyon. University of Northern Colorado, Greeley, 31 March 1997. Invited seminar.

Whiteman, C. D., 1995: Local Thermally Driven Circulations in Complex Terrain. Western Region Science Course for Managers, University of Washington, Atmospheric Sciences Department, Seattle, Washington, August 23, 1995. Invited presentation.

Whiteman, C. D., 1995: Local Thermally Driven Circulations in Complex Terrain. Western Region Science Course for Managers, University of Utah, Atmospheric Sciences Department, Salt Lake City, Utah, September 14, 1995. Invited presentation.

Whiteman, C. D., and X. Bian, 1995: Tides in the Earth's Atmosphere: New Observations Obtained from the Global Climate Change Program. 29 March 1995. Environmental Science Seminar Series, Washington State University-Tri-Cities Campus, Richland, Washington. Invited presentation.

Whiteman, C. D., 1995: Complex Terrain Phenomena Affecting Air Pollution Dispersion. Workshop on OB/OD Dispersion Modeling and Atmospheric Measurement Needs, Boulder, CO, February 15-16, 1995. [Presentation summarized in a NOAA Technical Memo prepared by conference organizers]. Invited presentation.

Whiteman, C. D., and J. C. Doran, 1995: Influence of Synoptic-Scale Flows on Valley Circulations. 26 January 1995 Seminar, Geographical Institute, University of Freiburg, Germany. Invited seminar.

Whiteman, C. D., 1995: Thermally Driven Winds and Temperature Structure Evolution in Mountain Valleys. Seminar Series, Geographical Institute, University of Bern. January 17 - Wind Structure in Mountain Valleys (2 hrs); January 24 - Influence of Synoptic Flows on Valley Circulations (with J. C. Doran, 1 hr) and Solar Semidiurnal Tides in the Rocky Mountain Atmosphere (with X. Bian, 1 hr); January 31 - Meteorology of the Grand Canyon Region and Its Effect on Air Pollution. Invited seminars.

Whiteman, C. D., and X. Bian, 1994: Observations of Solar Semidiurnal Tides in the Rocky Mountain Atmosphere. 21 November 1994 Seminar, Laboratory for Atmospheric Physics, Swiss Federal Institute of Technology, Zurich, Switzerland. Invited seminar.

Whiteman, C. D., and X. Bian, 1994: Solar Tides in the Lower Atmosphere. PNL-SA-25092A, 12 October 1994 Seminar, Department of Meteorology and Geophysics, University of Innsbruck, Austria. Invited seminar.

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Whiteman, C. D., and X. Bian, 1994: Solar Semidiurnal Tides in the Rocky Mountain Atmosphere. 29 September 1994 Seminar, Paul Scherrer Institute, Villigen, Switzerland. Invited seminar.

Whiteman, C. D., 1994: Valley Temperature Inversions and Mountain Meteorology. EAS-473 Instruments and Measurements Course: Field Studies in Meteorology and Atmospheric Chemistry offered to undergraduate students by City College of New York, 7 January 1994, Storm Peak Laboratory, Steamboat Springs, Colorado. Invited presentation.

Whiteman, C. D., 1994: Valley Temperature Inversions and Mountain Meteorology. Undergraduate Meteorology Course, January 7, 1994, City University of New York, Storm Peak Laboratory, Steamboat Springs, Colorado. Invited presentation.

Whiteman, C. D., and X. Bian, 1994: Harmonic Analysis of Thermally Driven Winds. ASCOT Science Team Meeting, February 8-10, 1994, Salt Lake City, Utah.

Hauser, R. K., C. D. Whiteman, and K. J. Allwine, 1994: Hourly Sigma Theta Estimates in the Colorado Plateaus Region Based on 1-h and 10-min Sampling Periods. ASCOT Science Meeting, February 8-10, 1994, Salt Lake City, Utah.

Furger, M., C. D. Whiteman, and J. M. Wilczak, 1993: Uncertainty of Boundary Layer Heat Budgets Computed from Wind Profiler/RASS Networks. NOAA Wave Propagation Laboratory Seminar Series, June 30, 1993, Boulder, Colorado. Invited seminar.

Whiteman, C. D., 1993: Meteorology of the Grand Canyon Region. Westinghouse Environmental Seminar Series, July 28, 1993. Invited seminar.

Whiteman, C. D., and S. Zhong, 1993: Mountain-Plain Circulations and the Topographic Amplification Factor. ASCOT Science Meeting, Salt Lake City, Utah, February 9-11, 1993.

Furger, M., and C. D. Whiteman, 1993: Heat Budgets from Wind Profiler/RASS Data: Requirements for Data Accuracy. ASCOT Science Meeting, Salt Lake City, Utah, February 9-11, 1993.

Hauser, R. K., K. J. Allwine, and C. D. Whiteman, 1993: Short Tower Sigma Theta Measurements in the Colorado Plateaus Region. ASCOT Science Meeting, Salt Lake City, Utah, February 9-11, 1993.

Alzheimer, J. M., G. A. Anderson, and C. D. Whiteman, 1993: Stabilized Platform for Tethered Balloon Soundings of Broadband Long- and Short-wave Radiation. Poster Session, ARM Science Team Meeting, Norman, Oklahoma, March, 1993.

Whiteman, C. D., 1992: The Influence of Overlying Synoptic-Scale Flows on Valley Winds. Symposium on Current Problems and Future Challenges in Atmospheric Science Research and Education, May 5-6, 1992, Colorado State University, Fort Collins, Colorado (videotaped). Invited presentation,

Whiteman, C. D., 1991: Wintertime Meteorology in the Colorado Plateaus Basin. PNL-SA-20178 A. ASCOT Science Team Meeting, November 5-8, 1991, Seattle, Washington.

Whiteman, C. D., and K. J. Allwine, 1991: Oak Ridge Wind Climatology. PNL-SA-20176 A. ASCOT Science Team Meeting, November 5-8, 1991, Seattle, Washington.

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Whiteman, C. D., 1991: Thermally Driven Wind Systems. National Fire Weather Forecasters Course, April 2-11, 1991, Boise, Idaho. PNL-SA-19050 S. Pacific Northwest Laboratory, Richland, Washington. Invited presentation.

Elderkin, C. E., P. H. Gudiksen, W. E. Clements, R. P. Hosker, Jr., C. D. Whiteman, W. D. Neff, R. L. Coulter, and G. E. Start, 1989: Field Studies for Determining the Characteristics and Dynamics of Local Circulations. International Seminar on Environmental Planning, Industrial Hazards, Risk Analysis and Disaster Management. December 17-18, 1989, Jaipur, India. PNL-SA-16873A. Pacific Northwest Laboratory, Richland, Washington.

Whiteman, C. D., 1988: Observations of Thermally Developed Wind Systems in Mountainous Terrain. American Meteorological Society Workshop on Current Directions in Atmospheric Processes Over Complex Terrain, October 24-28, 1988, Park City, Utah. Invited presentation.

Whiteman, C. D., 1987: Meteorology and Atmospheric Dispersion in a Deep Mountain Valley. Seminar, Laboratory for Atmospheric Science, Washington State University, January 30, 1987. Invited presentation.

Orgill, M. M., C. D. Whiteman, L. J. Fritschen, and J. R. Simpson, 1985: Surface Energy Balance in a Valley. Abstracts of Proceedings of Annual Meeting, Pacific Division AAAS, June 9-14, 1985, Missoula, Montana.

Whiteman, C. D., 1985: Studies of the Meteorology of a Deep Colorado Valley - The US ASCOT Experiments of 1982 and 1984. Zurich ETH, Geographical Institute Seminar Series, July 4. Invited seminar.

Whiteman, C. D., 1985: Tracer Experiments and Atmospheric Mass Budget Calculations in a Deep Colorado Valley. Meteorological Colloquium, Darmstadt-Frankfurt/M.-Mainz, June 20. Invited seminar.

Whiteman, C. D., 1985: Mountain Meteorology Studies in a Deep Colorado Valley - The US ASCOT Program 1982 and 1984. Micrometeorological Institute Seminar Series, University of Munich, June 13. Invited seminar.

Whiteman, C. D., 1985: Mountain Meteorology Studies in a Deep Colorado Valley - The U.S. ASCOT Program 1982 and 1984. Institute for Atmospheric Physics Seminar series, Zurich ETH, April 22. Invited seminar.

Whiteman, C. D., 1982: Some Aspects of Mesoscale Meteorology in Colorado's Oil Shale Region. Symposium on Mesoscale Meteorology, July 6-8, 1982, Colorado State University, Fort Collins, Colorado. Invited presentation.

REPORTS

Thistle, H., and C. D. Whiteman, 2000: Miniature data loggers record temperature inexpensively and reliably. Watershed, Soil and Air Forest Health Protection Tech Tips, 0034-2305-MTDC, March 2000, U.S. Department of Agriculture Forest Service, Technology and Development Program, Fort Missoula, Missoula, Montana 59804-7294, 6pp.

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Furger, M., S. Nyeki, and C. D. Whiteman, 2000: Alpine boundary layer development observed with airborne lidar. PSI Scientific Report 1999, Volume V, Paul Scherrer Institute, Villigen, 104-105. [ISBN 1423-7342].

Allwine, K. J., X. Bian, and C. D. Whiteman, 1995: VALDRIFT 1.0 - A Valley Atmospheric Dispersion Model with Deposition. PNL-10586 to U.S. Forest Service, Missoula Technology and Development Center, Missoula, Montana. May 1995. Pacific Northwest Laboratory, Richland, Washington, 145pp.

Whiteman, C. D., K. J. Allwine, and X. Bian, 1994: Surface Energy and Radiation Budgets in a Steppe Ecosystem in the Upper Columbia River Gorge. PNL-10083. August 1994. Pacific Northwest Laboratory, Richland, Washington.

Whiteman, C. D., K. J. Allwine, and J. M. Hubbe, 1991: Winter Meteorology of the Grand Canyon Region. Final Report, prepared for the Salt River Project, Phoenix, Arizona. Battelle Northwest Laboratories, Richland, Washington, 300 pp.

Whiteman, C. D., 1990: Effects of Valley Meteorology on Forest Pesticide Spraying. PNL-7332 to U.S. Forest Service, Missoula Technology and Development Center, Missoula, Montana. Pacific Northwest Laboratory, Richland, Washington, 17pp.

Glantz, C. S., M. N. Schwartz, P. J. Perrault, G. L. Andrews, and C. D. Whiteman, 1989: An Assessment of the Meteorological Conditions Associated with Herbicide Drift in the Horse Heaven Hills/Badger Canyon/Tri-Cities Area During the Period from August 6 through 11, 1988. Prepared for the Washington State Department of Agriculture, Olympia, Washington. Battelle Pacific Northwest Laboratories, Richland, Washington.

Doran, J. C., T. W. Horst, and C. D. Whiteman, 1988: The Development and Structure of Nocturnal Slope Winds in a Simple Valley. Report to U.S. Army Research Office, Research Triangle Park, North Carolina by Battelle, Pacific Northwest Laboratories, Richland, Washington, 70pp + appendices.

Whiteman, C. D., W. E. Clements, R. P. Hosker, S. Barr, C. W. King, W. D. Neff, and W. M. Porch, 1988: Valley Search Report. ASCOT-88-1. Los Alamos National Laboratory, Los Alamos, New Mexico, 18pp.

Luecken, D. J., C. D. Whiteman, E. G. Chapman, G. L. Andrews, and D. C. Bader, 1987: Description of the Mountain Cloud Chemistry Program Version of the PLUVIUS MOD 5.0 Reactive Storm Simulation Model. PNL-6242 to U.S. Environmental Protection Agency. Pacific Northwest Laboratory, Richland, Washington, 49 pp + Appendices.

Chapman, E. G., D. J. Luecken, and C. D. Whiteman, 1987: Application and Sensitivity Studies of the Reactive Storm Model MCCP PLUVIUS. PNL-6292 to U.S. Environmental Protection Agency. Pacific Northwest Laboratory, Richland, Washington, 52 pp.

Whiteman, C. D., R. Lambeth, and K. J. Allwine, 1987: Major Vegetation Types, Climatological Data and Solar Radiation Calculations for Colorado's Brush Creek Valley. PNL-6209/ASCOT-87-1. Pacific Northwest Laboratory, Richland, Washington, 18 pp. + Appendices.

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Allwine, K. J., and C. D. Whiteman, 1985: MELSAR: A Mesoscale Air Quality Model for Complex Terrain. Volume 1 - Overview, Technical Description and User's Guide and Volume 2 - Appendices. PNL-5460, Pacific Northwest Laboratory, Richland, Washington, 155 and 358 pp.

Whiteman, C. D., and K. J. Allwine, 1985: VALMET - A Valley Air Pollution Model. Final Report. PNL-4728, Rev. 1. Pacific Northwest Laboratory, Richland, Washington, 176 pp.

Whiteman, C. D., R. N. Lee, M. M. Orgill, and B. D. Zak, 1984: Green River Air Quality Model Development: Meteorological and Tracer Data - July/August 1982 Field Study in Brush Valley, Colorado. PNL-5163, Pacific Northwest Laboratory, Richland, Washington, 139 pp.

Whiteman, C. D., and E. Dreiseitl, 1984: Alpine Meteorology. Translations of Classic Contributions by A. Wagner, E. Ekhardt and F. Defant. PNL-5141 / ASCOT-84-3. Pacific Northwest Laboratory, Richland, Washington, 121 pp.

Allwine, K. J., and C. D. Whiteman, 1984: Technical Description of MELSAR: A Mesoscale Air Quality Model for Complex Terrain. PNL-5048, Pacific Northwest Laboratory, Richland, Washington, 97 pp.

Allwine, K. J., and C. D. Whiteman, 1983: Operational Guide to MELSAR-A Mesoscale Complex Terrain Air Quality Model. PNL-4732, Pacific Northwest Laboratory, Richland, Washington, 44 pp.

Whiteman, C. D., and K. J. Allwine, 1982: Green River Ambient Model Assessment Program FY-1982 Progress Report. PNL-4520, Pacific Northwest Laboratory, Richland, Washington.

Allwine, K. J., R. L. Drake, and C. D. Whiteman, 1982: Air Quality Limitations on Oil Shale Development of Tract C-a. Prepared for Gulf Research and Development Company, Battelle, Pacific Northwest Laboratories, Richland, Washington.

Drake, R. L., and C. D. Whiteman, 1982: Program Plan for Validated, Complex Terrain, Atmospheric Dispersion Models for the Oil Shale Region of Colorado and Utah. Prepared for the American Petroleum Institute, Battelle, Pacific Northwest Laboratories, Richland, Washington.

Whiteman, C. D., N. S. Laulainen, G. A. Sehmel, and J. M. Thorp, 1981: Green River Air Quality Model Development: Meteorological Data - August 1980 Field Study in the Piceance Creek Basin Oil Shale Resources Area. EPA-600/S7-82-047. September 1982. U.S. Government Printing Office.(Available from National Technical Information Services as PB-82-258 6091.)

McKee, T. B., and C. D. Whiteman, 1977: Components of infrared Net Radiation in a Mountain Valley. Atmospheric Science Paper No. 279 - Climatology Report No. 77-5, Department of Atmospheric Science, Colorado State University, Fort Collins, Colorado, 102 pp.

Whiteman, C. D., 1975: Air Motion Tracers for Use in Boundary Layer Atmospheric Diffusion Experiments. Consultants Report CDW-75-1, prepared for EG&G Environmental Consultants, Incorporated, Western Operations, Denver, Colorado, 72 pp.

Whiteman, C. D., and J. G. Whiteman, 1974: An Historical Climatology of Damaging Downslope Windstorms at Boulder, Colorado. NOAA Technical Report, ERL 336-OAPCL 35, U.S. Government Printing Office, Washington, D.C., 62 pp.

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Whiteman, C. D., 1974: Use of the ERTS-1 Satellite Data Collection System in Monitoring Weather Conditions for Control of Cloud Seeding Operations. Report FR-547-39 to U.S. Bureau of Reclamation, Division of Atmospheric Water Resources Management, Denver, Colorado. Western Scientific Services, Inc., Fort Collins, Colorado, 70 pp.

Hartzell, C. L., C. D. Whiteman, and L. W. Crow, 1974: Comprehensive Meteorological Data Report for the Colorado River Basin Pilot Project. Report CDR-359-38 to U.S. Bureau of Reclamation, Division of Atmospheric Water Resources Management, Denver, Colorado. Western Scientific Services, Inc., Fort Collins, Colorado, 218 pp.

Hartzell, C. L., C. D. Whiteman, and L. W. Crow, 1974: Annual Report for the Colorado River Basin Pilot Project. Report AR-359-37 to U.S. Bureau of Reclamation, Division of Atmospheric Water Resources Management, Denver, Colorado. Western Scientific Services, Inc., Fort Collins, Colorado, 19 pp.

Hartzell, C. L., C. D. Whiteman, and L. W. Crow, 1973: Comprehensive Meteorological Data Report for the Colorado River Basin Pilot Project. Report CDR-359-35 to U.S. Bureau of Reclamation, Division of Atmospheric Water Resources Management, Denver, Colorado. Western Scientific Services, Inc., Fort Collins, Colorado, 225 pp.

Hartzell, C. L., C. D. Whiteman, and L. W. Crow, 1973: Annual Report for the Colorado River Basin Pilot Project. Report AR-359-34 to U.S. Bureau of Reclamation, Division of Atmospheric Water Resources Management, Denver, Colorado. Western Scientific Services, Inc., Fort Collins, Colorado, 20 pp.

Whiteman, C. D., 1973: Variability of High Plains Precipitation. NOAA Technical Report ERL 387-APCL 31, U.S. Government Printing Office, Washington, D.C., 43 pp.

Whiteman, C. D., 1973: Some Climatological Characteristics of Seedable Upslope Cloud Systems in the High Plains. NOAA Technical Report ERL 268-APCL 27, U.S. Government Printing Office, Washington, D.C., 43 pp.