



Mountain Meteorology: Fundamentals and Applications

By C. David Whiteman

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Mountain Meteorology: Fundamentals and Applications offers first an introduction to the basic principles and concepts of mountain meteorology, then goes on to discuss their application in natural resources management. It includes over two hundred beautiful, full-color photographs, figures, and diagrams, as well as observable indicators of atmospheric processes--such as winds, temperature, and clouds--to facilitate the recognition of weather systems and events for a variety of readers. It is ideal for those who spend time in or near mountains and whose daily activities are affected by weather. As a comprehensive work filled with diverse examples and colorful illustrations, it is essential for professionals, scholars, and students of meteorology.

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Editorial Review

Review

"Whiteman has grasped an opportunity to compile a broad text covering all aspects of mountain meteorology in a general way, and three selected aspects in specific ways. His efforts are to be applauded and enjoyed. This book represents a significant advance over available books on the topic, and will be warmly welcomed by its intended audience." -- *Prof Douw Steyn, University of British Columbia, Agricultural and Forest Meteorology*

"In this book, the author and his fellow contributors have done a very credible job explaining many of the unique phenomena associated with the mountain environment. Both the clear explanations and an overall manner that makes reading this book a very agreeable learning experience are credits to the author and his editor. This is indeed a book that someone interested in mountain weather would find very useful and informative. Clearly written, well organized, and appropriately illustrated, it is well worth the read."--*Kenneth Rancourt, Bulletin of the American Meteorological Society*

"C. David Whiteman ... has used his expertise to help not just hikers but anyone understand and, in some cases, forecast weather. It's available in his book ... 'I find that when I hike, I get more enjoyment if I can start to recognize things like the wildflowers,' Whiteman said. 'There's never been anyone who has done that for mountain weather, and I thought it would be nice to have the people who read the book be able to recognize the weather features around them and help them predict.' At 355 pages, this is no guidebook to toss in your backpack. Rather, it's a textbook that sent me back to school and those days of ... yellow highlighter pens. But don't let the size of this hardcover intimidate you because Whiteman makes weather, especially those mesmerizing graphics they flash on the Weather Channel, easier to comprehend. ... [A] book for hikers, campers, farmers, pilots, firefighters and anyone who watches TV to see what the weather forecast is for tomorrow."--*Tri-City Herald*

About the Author

C. David Whiteman is a Staff Scientist at the United States Department of Energy's Pacific Northwest National Laboratory in Richland, Washington, where he does research in mountain meteorology, boundary layer meteorology, and air pollution meteorology. He also teaches meteorology at Washington State University, is a Certified Consulting Meteorologist, and serves as an editor of the *Journal of Applied Meteorology*.

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