



# Introduction to Weather and Climate Science

*Jonathan E. Martin*

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*Introduction to Weather and Climate Science* is a freshman-level undergraduate introductory textbook. It is geared specifically to the non-scientist, and requires no prior knowledge of meteorology. Written in a conversational tone, the book is ideal for first courses in the subject. It emphasizes the application of basic ideas to improve understanding of the kinds of weather systems encountered on a daily basis.

*Introduction to Weather and Climate Science* covers the following topics:

- The Chemical Composition of the Atmosphere
- Radiative Transfer of Energy
- Moisture in the Atmosphere
- The Production of Clouds and Precipitation
- The Nature of Mid-latitude
- Tropical Weather Systems

This book gives instructors all the elements needed for an excellent course requiring minimal background preparation. It can be used effectively by any scientifically-literate non-meteorologist.

**Jonathan E. Martin** is a Professor in the Department of Atmospheric and Oceanic Sciences at the University of Wisconsin, Madison, where he has taught since 1994. He has received numerous accolades for his teaching, including the Underkofler Excellence in Teaching Award. Professor Martin is a Fellow in the Teaching Academy of the University of Wisconsin. He also has the distinction of being named a Mark H. Ingraham Distinguished Faculty and a Hamel Faculty Fellow by the university's College of Arts and Letters. In addition to teaching, Professor Martin has research expertise in the study of mid-latitude weather systems.

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