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978-0-521-84086-6 - Human Impacts on Weather and Climate, Second Edition

William R. Cotton and Roger A. Pielke

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Human Impacts on Weather and Climate Second Edition

This new edition of *Human Impacts on Weather and Climate* examines the scientific debates surrounding anthropogenic impacts on the Earth's climate and presents the most recent theories, data, and modeling studies. The book discusses the concepts behind deliberate human attempts to modify the weather through cloud seeding, as well as inadvertent modification of weather and climate on regional and global scales through the emission of aerosols and gases and change in land-use. The natural variability of weather and climate greatly complicates our ability to determine a clear cause-and-effect relationship to human activity. The authors examine the strengths and weaknesses of the various hypotheses regarding human impacts on global climate in simple and accessible terms.

Like the first edition, this fully revised new edition will be a valuable resource for undergraduate and graduate courses in atmospheric and environmental science, and will also appeal to policy-makers and general readers interested in how humans are affecting the global climate.

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HUMAN IMPACTS ON WEATHER AND CLIMATE

Second Edition

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