



# Thermodynamics of Atmospheres and Oceans (International Geophysics)

*Judith A. Curry, Peter J. Webster*

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Atmospheric and climatological studies are becoming more and more important in day-to-day living. Winds and ocean current owe their existence to the thermodynamic imbalances that arise from the differential heating of the Earth and air by the sun. Accounting for heat exchanges with the atmosphere and ocean is essential in any predictive model of the ocean and/or atmosphere. Thermodynamic feedback processes in the atmosphere and ocean are critical to understanding the overall stability of the Earth's climate and climate change. Water and its phase changes make the thermodynamics of the atmosphere and ocean uniquely interesting and challenging.

Written by leading scientists in the field, **Thermodynamics of Atmospheres and Oceans** incorporates all the relevant information from the varying fields of dynamics meteorology, atmospheric physics and cloud physics, into a comprehensive, self-contained guide ideal for students and researchers of atmospheric thermodynamics. At the moment, courses in atmospheric thermodynamics typically have to use one or two chapters in textbooks on dynamic meteorology, atmospheric physics or cloud physics. This book combines these topics in one text.

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