

FOURTH EDITION

The **CLIMATE MODELLING PRIMER**



**Kendal McGuffie
Ann Henderson-Sellers**



WILEY Blackwell

Climate Modelling Primer

Lei Huang



Climate Modelling Primer:

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non specialists discover a need for information about the variety of available climate models A Climate Modelling Primer Fourth Edition is designed to explain the basis and mechanisms of all types of current physically based climate models A thoroughly revised and updated edition this book will assist the reader in understanding the complexities and applicabilities of today s wide range of climate models Topics covered include the latest techniques for modelling the coupled biosphere ocean atmosphere system information on current practical aspects of climate modelling and ways to evaluate and exploit the results discussion of Earth System Models of Intermediate Complexity EMICs and interactive exercises based on Energy Balance Model EBM and the Daisyworld model Source codes and results from a range of model types allows readers to make their own climate simulations and to view the results of the latest high resolution models Now in full colour throughout and with the addition of cartoons to enhance student understanding the new edition of this successful textbook enables the student to tackle the difficult subject of climate modeling

The Climate Modelling Primer Kendal McGuffie,Ann Henderson-Sellers,John Wiley & Sons,2014

A Climate Modelling Primer Kendal McGuffie,1997

A Climate Modelling Primer K. McGuffie,2014 Kendal McGuffie University of Technology Sydney Australia Ann Henderson Sellers Macquarie University Australia

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Climate The components of climate Climate change assessment Climate forcings Climate feedbacks and sensitivity Range of questions for climate modelling A history of and introduction to climate models Introducing climate modelling Types of climate models History of climate modelling Sensitivity of climate models Parameterization of climate processes Simulation of the full interacting climate system one goal of modelling Energy balance models Balancing the planetary radiation budget The structure of energy balance models Parameterizing the climate system for energy balance models A basic energy balance climate model Energy balance models and glacial cycles Box models another form of energy balance model another form of energy balance model Energy balance models deceptively simple models Computationally efficient models Why lower complexity One dimensional radiative convective models Radiation the driver of climate Convective adjustment Sensitivity experiments with radiative convective models Development of radiative convective models Two dimensional statistical dynamical climate models Other types of computationally efficient models Why are some climate modellers flatlanders General circulation climate models Three dimensional models of the climate system Atmospheric general circulation models Atmospheric GCM components Modelling the ocean circulation Modelling the cryosphere Incorporating vegetation Coupling models towards the AOBGCM Using GCMs Evaluation and

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Climatology and Meteorology : a Climate Modelling Primer. 3rd Ed
 McGuffie,2005

A Climate Modelling Primer Ann Henderson-Sellers,Kendal McGuffie,1987 This is the first self contained introduction to climate modelling Assuming only a basic algebra background this text provides a history and introduction to climate models and describes such model types as energy balance radiative convective two dimensional and general circulation Stresses the importance of simple models of the climate and their value in testing and extending the concepts upon which much more complex models are founded Written for an interdisciplinary audience rather than for specialists in atmosphere science this treatment shows how to judge the credibility of different model types and when and how to apply the results of modelling exercises

Ecology ,1989

Russian Meteorology and Hydrology ,2001

Cumulative Book Index ,1925 A world list of books in the English language

New Scientist and Science Journal ,1988

New Scientist ,1988

Forest Economics on the Edge David H. Newman,Mary Ellen Aronow,1994

Michigan Geography and Geology Randall J. Schaetzl,2009

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