

**FOURTH EDITION**

# The **CLIMATE MODELLING PRIMER**



**Kendal McGuffie  
Ann Henderson-Sellers**



**WILEY Blackwell**

# Climate Modelling Primer

**Kendal McGuffie, Ann Henderson-  
Sellers**



## **Climate Modelling Primer:**

A Climate Modelling Primer Kendal McGuffie, Ann Henderson-Sellers, 2005-03-11 As a consequence of recent increased awareness of the social and political dimensions of climate many non specialists discover a need for information about the variety of available climate models A Climate Modelling Primer Third Edition explains the basis and mechanisms of all types of current physically based climate models A thoroughly revised and updated edition this book assists 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 The accompanying CD contains A suite of resources for those wishing to learn more about climate modelling A range of model visualisations Data from climate models for use in the classroom Windows and Macintosh programs for an Energy Balance Model Selected figures from the book for inclusion in presentations and lectures Suitable for 3rd 4th year undergraduates taking courses in climate modelling economic forecasting computer science environmental science geography and oceanography Also of relevance to researchers and professionals working in related disciplines with climate models or who need accessible technical background to climate modelling predictions The Climate Modelling Primer Kendal McGuffie, Ann Henderson-Sellers, 2014-01-31 As a consequence of recent increased awareness of the social and political dimensions of climate many 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 **A Climate Modelling Primer** ,2006 A Climate Modelling Primer K. McGuffie,1999 *The Climate Modelling Primer* Kendal McGuffie, Ann Henderson-Sellers, John Wiley & Sons, 2014 **The Climate Modelling Primer** Kendal McGuffie, Ann Henderson-Sellers, John Wiley & Sons, 2014 **The Climate Modelling Primer** Ann Henderson-Sellers, Kendal

McGuffie,2014-01-29 As a consequence of recent increased awareness of the social and political dimensions of climate many 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

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Climatology and Meteorology : a Climate Modelling Primer, 3rd Ed McGuffie, 2005      **A Climate Modelling Primer** Ann Henderson-Sellers, Kendall 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.

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## Decoding **Climate Modelling Primer**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Climate Modelling Primer**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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