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Author(s) : Nieuwolt,

S. Author Affiliation :

Kenyatta Univ.,

Nairobi, Kenya. Book :

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This chapter

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introduces learners to tropical meteorology including various methods of defining the tropics. An overview of energy balance and the global climate system is presented. The role of the tropics in the global energy and momentum balance is presented.

Atmospheric

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Author(s) : McGregor,  
G. R. ; Nieuwolt, S.

Author Affiliation :  
University of  
Birmingham, UK.

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Climatology or climate science is the scientific study of climate, scientifically defined as weather conditions averaged over a period of time. This modern field of study is regarded as a branch of the atmospheric sciences and a subfield of physical geography, which is one of the

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Simon Nieuwolt

(deceased) Formerly

Adjunct Professor,

University of Guelph,

Canada Climatology,

the scientific study of

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explaining why a location's or region's climate is like it is but also with describing the nature and availability of the climate resource for a wide range of human activities. This subject is of great relevance to the tropics as climate in many ways controls the lives and economic activities of

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the approximately 2400 million people living in tropical regions. Tropical climates also have effects that reach far beyond the limits of the regions where they actually prevail: the global general circulation is largely driven by the export of considerable amounts of heat



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energy from tropical  
to extratropical  
latitudes: a large part  
of all atmospheric  
water content  
originates from the  
tropics, and  
intermittent tropical  
phenomena, like El  
Nino Southern  
Oscillation (ENSO),  
not only influence  
the climates over  
extensive tropical

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areas but many parts of the extratropics. The climate sensitivity of populations and economic production in the tropics also makes these regions especially vulnerable to any negative impacts arising from human-induced climate change.

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aims to provide a geographical viewpoint on the physical processes in the tropical atmosphere: to offer explanations of how a location's climate is a product of these processes and to highlight the implications of tropical atmospheric behaviour and

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climatology for  
those living in the  
tropics. This is the  
second edition of the  
book and reflects the  
substantial  
developments in the  
field of tropical  
climatology which  
have taken place over  
the two decades  
since the publication  
of the first edition.

New and updated

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material has been included on the nature of the general tropical circulation, the monsoons, the quasi-biennial oscillation, the 40-50 day tropical circulation, the El Nino Southern Oscillation phenomenon and its climatic impacts, tropical disturbances,

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the characteristics of regional tropical climates and climate change in the tropics.

The readership of the book remains essentially the same as that for which the first edition was intended; second to third year students in geography and the environmental sciences who have

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some background in climatology. The updated reference list will, however, provide an entry point for non-specialist postgraduates into the field of tropical climatology.

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the tropics? The weather and the climates it produces across the tropical zone are significantly different from those experienced by the people living in higher latitudes, so forecasters across Europe and much of North America are unfamiliar with its effects. In this book,



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Jim Galvin  
demystifies the topic  
in this zone that is  
increasingly of  
interest to those  
studying weather  
and climate. This  
book was written for  
weather forecasters,  
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geography students  
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guide. It builds on the experience of the author, his professional experience in the World Area Forecast Centre at the Met Office, Exeter, using studies into the weather and climate seen within the tropical air mass conducted over many years. Its unique

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approach presents a practical approach to tropical weather studies, drawing on both academic and practical knowledge, covering air mass dynamics, seasonal changes, moist and dry weather, climate variability and human health in chapters and appendices that build

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up the overall picture, summarising our current state of knowledge. As an overview, it covers the broad range of effects connected with climate and weather in a straightforward way and is clearly illustrated throughout.

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presents a  
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the tropics. Covering  
a broad, cross-  
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book features a wealth of case studies drawn from throughout the tropical world. The authors tackle the major problems within the tropics, from complex biological interactions and soil nutrient deficiencies, offering a balanced integration of

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human management  
introduction to  
issues.

The Climates Of

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dynamics of tropical  
atmosphere and  
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climate sciences. It

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presents an overview

of simple

atmospheric and

oceanic models, as

well as the observed

phenomena

associated with

major climate modes

in the tropics. It

provides students

with an up-to-date

understanding of the

dynamics of tropical

climate and weather



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phenomena. A particular focus is given to scale interactions and atmosphere-ocean interactions associated with tropical mean climate (such as ITCZ asymmetry and annual cycles), synoptic-scale variability (such as synoptic wave trains,

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easterly waves and tropical cyclones), intraseasonal oscillations (such as Madden-Julian Oscillation and boreal summer intraseasonal oscillation), and interannual variability (such as El Niño-Southern Oscillation and Indian Ocean Dipole).

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Theoretical and conceptual models are presented for better understanding of physical mechanisms behind the observational phenomena. This book aims to motivate graduate students in atmospheric sciences and oceanography by providing them with

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the key methods and tools necessary to conduct research.

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reasonably up to date to the middle of 1985. In a second printing in 1988 it

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was possible to complete a few literature references and to correct some misprints. However, vigorous research has taken place over the past five years in various areas of tropical climate dynamics, especially in the atmosphere-ocean mechanisms of climate anomalies,

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climate prediction, An  
ocean circulation, To  
and paleoclimates.  
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climate problems. In  
the present second  
edition, named  
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the Tropics", I have  
attempted to

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incorporate much of the recent work to late 1990. Chapters 8 and 9 have been essentially re-written, and major additions have been made to Chapters 4 and 12 in particular. I would like to acknowledge the continued support by the U.S. National Science Foundation over the

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past five years. B. An  
Parthasarathy,  
Poona, and H.  
Lessmann, San  
Salvador, sent me  
updates of data series  
not easily accessible. I  
have benefitted from  
discussions with  
numerous colleagues  
in the United States  
and overseas. In the  
preparation of this  
second edition,



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Marilyn Wolff  
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of macroscale  
tropical circulation  
systems such as the  
monsoon, the Hadley  
and Walker

Circulations, El Niño,  
and the tropical  
ocean warm pool.

These macroscale  
circulations interact  
with a myriad of  
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systems, ranging  
from convective

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cloud systems to migrating equatorial waves that attend the low-frequency background flow.

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phenomena into the  
tropics, precipitation  
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equatorial waves and disturbances described in detail.

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determine the tropical circulation and their role in global weather and climate is provided in a series of overlapping theoretical and modelling constructs. The structure of the book follows a graduated framework.

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description of  
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phenomenology, the  
reader is introduced  
to dynamical and  
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constraints that  
guide the planetary  
climate and establish  
a critical role for the  
tropics. Equatorial  
wave theory is  
developed for simple  
and complex

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background flows, including the critical role played by moist processes. The manner in which the tropics and the extratropics interact is then described, followed by a discussion of the physics behind the subtropical and near-equatorial precipitation

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including arid regions. The El Niño phenomena and the monsoon circulations are discussed, including their covariance and predictability. Finally, the changing structure of the tropics is discussed in terms of the extent of the tropical ocean warm pool and its

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relationship to the intensity of global convection and climate change.

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interested in tropical circulations and their relationship with the broader climate system.

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people living in higher latitudes, so forecasters across Europe and much of North America are unfamiliar with its effects. In this book, Jim Galvin demystifies the topic in this zone that is increasingly of interest to those studying weather and climate. This

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book was written for weather forecasters, meteorology, environmental science and geography students as an introductory guide. It builds on the experience of the author, his professional experience in the World Area Forecast Centre at the Met

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Office, Exeter, using studies into the weather and climate seen within the tropical air mass conducted over many years. Its unique approach presents a practical approach to tropical weather studies, drawing on both academic and practical knowledge, covering air mass



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dynamics, seasonal changes, moist and dry weather, climate variability and human health in chapters and appendices that build up the overall picture, summarising our current state of knowledge. As an overview, it covers the broad range of effects connected

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