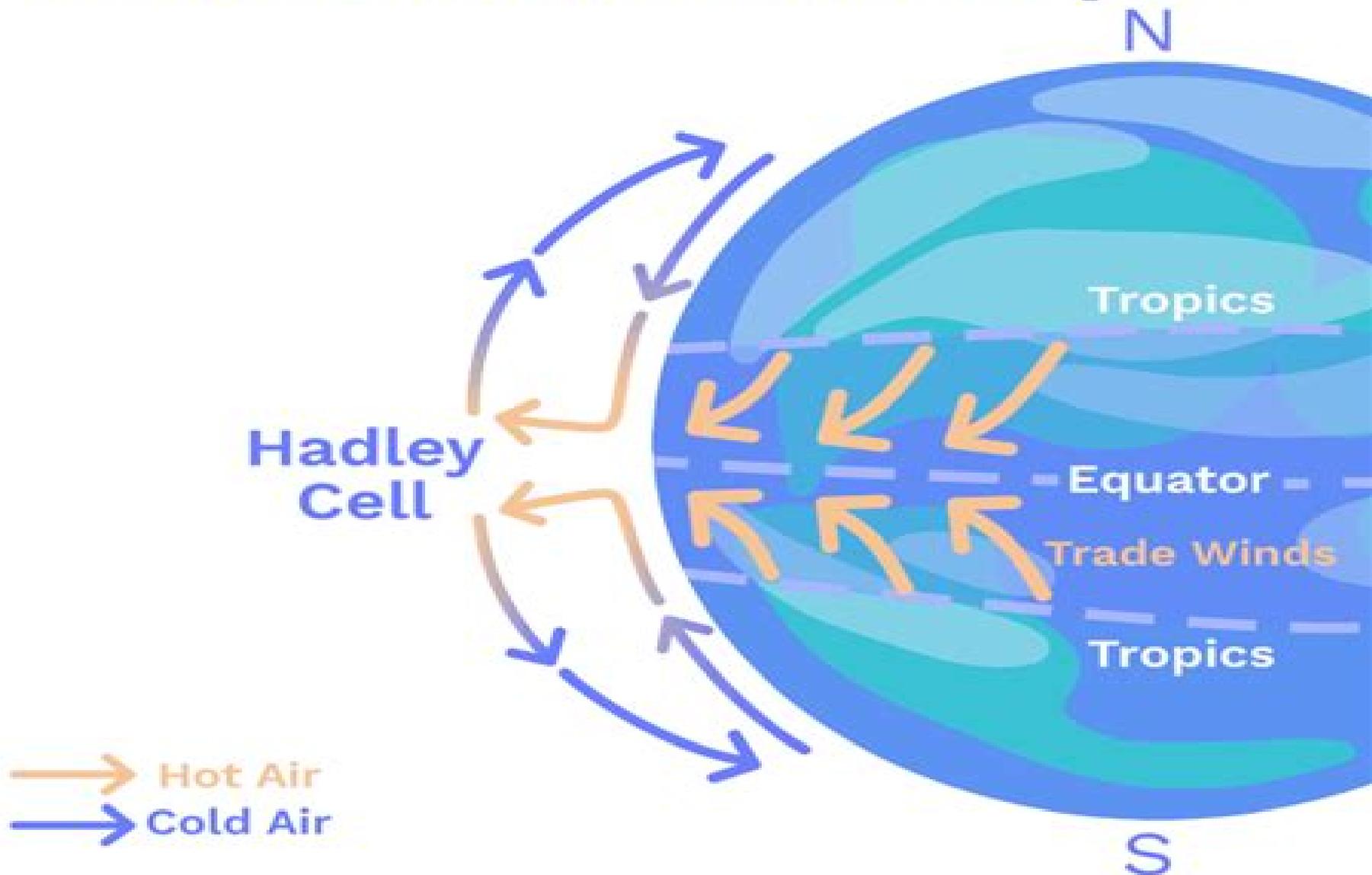


# Air Circulation in the Tropics



Source: Adapted from "Hadley Cells", Harvard  
(<https://www.seas.harvard.edu/climate/eli/research/equable/hadley.html>)

# Climate And Circulation Of The Tropics

**Herbert Riehl**



## **Climate And Circulation Of The Tropics:**

**Climate and circulation of the tropics** S. Hastenrath, 2012-12-06 Tropical atmosphere and ocean are receiving increased attention in relation to the functioning of the global climate system the remarkable climatic variability in low latitudes and the associated manifold environmental and societal consequences Beyond the traditional emphasis of meteorology on weather analysis and forecasting there is a growing interest in the climate and large scale circulation of the tropics This book may serve as a text for graduate and upper division undergraduate students in meteorology and is also intended as a reference work for practicing meteorologists and researchers in the atmospheric oceanic and other environmental sciences I began writing this book in 1979 but the roots reach further back Early experiences in North Africa fuelled my curiosity about the low latitudes In 1960 I seized the opportunity to work in the National Meteorological Service of El Salvador in Central America My interest in the tropics continued after joining the University of Wisconsin in 1963 Field research brought me to the equatorial Pacific and many times to the tropical Americas and Africa This involved visits and correspondence with many weather services My acquaintance with Australasia and South Asia is limited to short study visits but includes continuous contacts with colleagues at key research institutions in India namely the India Meteorological Department the Indian Institute of Tropical Meteorology and Andhra University A guest semester at the University of the Witwatersrand in 1971 and related travels provided a perspective on the problems of Southern Africa

### **Climate Dynamics of the Tropics**

S. Hastenrath, 2012-12-06 The first edition of my book Climate and Circulation of the Tropics was reasonably up to date to the middle of 1985 In a second printing in 1988 it 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 climate prediction ocean circulation and paleoclimates Promising progress has also been made in the application of general circulation modelling to tropical climate problems In the present second edition named Climate Dynamics of the Tropics I have attempted to 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 past five years B 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 Marilyn Wolff patiently transferred my illegible hand written drafts onto word processor Dierk Polzin and Dan Skemp assisted me with the creation of the page masters and the subject index and Christopher Collimore with the author index

Climate and circulation of the tropics Stefan Hastenrath, 2011-11-04 Tropical atmosphere and ocean are receiving increased attention in relation to the functioning of the global climate system the remarkable climatic variability in low latitudes and the associated manifold environmental and societal consequences Beyond the traditional emphasis of meteor

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**Climate Dynamics of the Tropics** Stefan Hastenrath, 2011-09-30 The first edition of my book *Climate and Circulation of the Tropics* was reasonably up to date to the middle of 1985 In a second printing in 1988 it 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 climate prediction ocean circulation and paleoclimates Promising progress has also been made in the application of general circulation modelling to tropical climate problems In the present second edition named *Climate Dynamics of the Tropics* I have attempted to 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 past five years B 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 Marilyn Wolff patiently transferred my illegible hand written drafts onto word processor Dierk Polzin and Dan Skemp assisted me with the creation of the page masters and the subject index and Christopher Collimore with the author index

*Climate and Weather in the Tropics* Herbert Riehl, 1979 Wind systems of the tropics Radiation temperature and humidity Precipitation and evaporation Vertical energy transfer The trade wind inversion Diurnal and local controls Weather observation and analyses Synoptic scale weather systems Tropical cyclones structure and mechanics Tropical cyclones formation and movement Numerical hurricane prediction by Ferdinand Baer The general circulation

**The General Circulation of the Tropical Atmosphere and Climate Changes** Timothy Moore Merlis, 2012

**Introduction to Climatology for the Tropics** J. O. Ayoade, 1983 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

**Dynamics of the Tropical**

**Atmosphere and Oceans** Peter J. Webster, 2020-06-08 This book presents a unique and comprehensive view of the fundamental dynamical and thermodynamic principles underlying the large circulations of the coupled ocean atmosphere system Dynamics of The Tropical Atmosphere and Oceans provides a detailed description of macroscale tropical circulation systems such as the monsoon the Hadley and Walker Circulations El Ni o and the tropical ocean warm pool These macroscale circulations interact with a myriad of higher frequency systems ranging from convective cloud systems to migrating equatorial waves that attend the low frequency background flow Towards understanding and predicting these circulation systems A comprehensive overview of the dynamics and thermodynamics of large scale tropical atmosphere and oceans is presented using both a reductionist and holistic perspectives of the coupled tropical system The reductionist perspective provides a detailed description of the individual elements of the ocean and atmospheric circulations The physical nature of each component of the tropical circulation such as the Hadley and Walker circulations the monsoon the incursion of extratropical phenomena into the tropics precipitation distributions equatorial waves and disturbances described in detail The holistic perspective provides a physical description of how the collection of the individual components produces the observed tropical weather and climate How the collective tropical processes 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 Following a detailed description of tropical phenomenology the reader is introduced to dynamical and thermodynamical constraints that guide the planetary climate and establish a critical role for the tropics Equatorial wave theory is developed for simple and complex 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 including arid regions The El Ni o 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 relationship to the intensity of global convection and climate change Dynamics of the Tropical Atmosphere and Oceans is aimed at advanced undergraduate and early career graduate students It also serves as an excellent general reference book for scientists interested in tropical circulations and their relationship with the broader climate system [Environmental Structure And Function: Climate System - Volume I](#)

George Vadimovich Gruza, 2009-05-20 Environmental Structure and Function Climate System is a component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 2 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the fields of Environmental Structure and Function Climate Systems and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts

Managers and Decision Makers and NGOs      **Report of the Science Steering Group for a Tropical Rainfall Measuring Mission (TRMM)** Tropical Rainfall Measuring Mission. Science Steering Group,1988 The Tropical Rainfall Measuring Mission TRMM a satellite program now being studied jointly by the United States and Japan would carry out the systematic study of tropical rainfall required for major strides in weather and climate research This report presents the scientific justification for TRMM and outlines the implementation process for the scientific community Preface      Tropical Diseases Bulletin ,1914      *Tropical Climatology* Glenn R. McGregor,Simon Nieuwolt,1998-04-22 Tropical Climatology Second Edition Glenn R McGregor The University of Birmingham UK Simon Nieuwolt deceased Formerly Adjunct Professor University of Guelph Canada Climatology the scientific study of climate is not only concerned with 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 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 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 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 Tropical Climatology 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 climate change 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 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 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 some background in climatology The updated reference list will however provide an entry point for non specialist postgraduates into the field of tropical climatology

**Encyclopedia of Atmospheric Sciences** Gerald R. North,John A. Pyle,Fuqing Zhang,2014-09-14 Encyclopedia of Atmospheric Sciences Second Edition Six Volume Set is an authoritative resource covering all aspects of atmospheric sciences including both theory and applications With more than 320 articles and 1 600 figures and photographs this revised version of the award winning first edition offers comprehensive coverage of this important field The six volumes in this set

contain broad ranging articles on topics such as atmospheric chemistry biogeochemical cycles boundary layers clouds general circulation global change mesoscale meteorology ozone radar satellite remote sensing and weather prediction The Encyclopedia is an ideal resource for academia government and industry in the fields of atmospheric ocean and environmental sciences It is written at a level that allows undergraduate students to understand the material while providing active researchers with the latest information in the field Covers all aspects of atmospheric sciences including both theory and applications Presents more than 320 articles and more than 1 600 figures and photographs Broad ranging articles include topics such as atmospheric chemistry biogeochemical cycles boundary layers clouds general circulation global change mesoscale meteorology ozone radar satellite remote sensing and weather prediction An ideal resource for academia government and industry in the fields of atmospheric ocean and environmental sciences

**On the Interactions Between Clouds and Atmospheric Circulation in the Tropics and Midlatitudes** Casey J. Wall, 2018 Cloud radiative feedbacks are the largest source of uncertainty in climate projections It has been shown that narrowing this uncertainty will require a better understanding of the two way interactions between clouds and the atmospheric circulation Understanding cloud circulation interactions and constraining cloud climate feedbacks are therefore important and urgent goals in climate research These topics are investigated in this thesis In Part A satellite observations are used to study the interactions between clouds and atmospheric circulation over the Southern Ocean Atmospheric motions modify the boundary layer stratification inversion strength and large scale vertical motion and in doing so modulate clouds Surface heat fluxes also significantly modulate shallow clouds The ability of climate models to simulate these processes is investigated Climate models consistently struggle to accurately represent shallow clouds in subfreezing environments The implications of these model biases for uncertainty in cloud climate feedbacks is discussed In Part B cloud circulation interactions are investigated over the warm and convective tropical oceans In these regions the average shortwave and longwave cloud radiative effects are individually large but nearly cancel at the top of the atmosphere It has been hypothesized that this cancellation is caused by two way interactions between clouds atmospheric circulation and sea surface temperature SST This hypothesis is investigated using a variety of satellite observations and climate model simulations First observations from polar orbiting satellites are used to investigate the relationships between large scale circulation and cloud properties Next a cloud tracking algorithm is applied to geostationary satellite observations and is used to study the evolution of clouds the ambient environment and the underlying SST over the life cycle of convective storms Finally a climate model in global radiative convective equilibrium configuration is used to investigate the impact of cloud circulation SST interactions on tropical climate All three studies are consistent with the hypothesis that cloud circulation SST interactions cause the close balance in cloud radiative effects over warm tropical oceans It is hypothesized that this mechanism could constrain cloud climate feedbacks in the warm and convective tropics

**Tropical Extra-tropical Interactions**, 1991 *Tropical Circulation*

*Systems and Monsoons* Kshudiram Saha, 2009-10-27 This is a book on the practical side of tropical meteorology which in its 3 Parts covered in 12 chapters reviews several current theories and ideas on tropical circulations and monsoons offering new definitions and ideas to facilitate a systematic development of the subject The book emphasizes the need for a systematic approach to tropical circulations in general and monsoons in particular to facilitate orderly and systematic development of the topic

**Book Catalog of the Library and Information Services Division: Shelf List catalog** Environmental Science Information Center. Library and Information Services Division, 1977

[The Journal of Tropical Geography](#), 1978

**Tropical Climatology** S. Nieuwolt, 1977 The tropics Radiation conditions in the low latitudes Temperatures in the tropics The general circulation of the tropical atmosphere Regular variations of the tropical circulation Tropical disturbances Water in the tropical atmosphere Tropical precipitation Tropical climates Applied tropical climatology

**The Diseases of Tropical Climates and Their Treatment. With Hints for the Preservation of Health in the Tropics** James Africanus Beale Horton, 1879

## Reviewing **Climate And Circulation Of The Tropics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Climate And Circulation Of The Tropics**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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