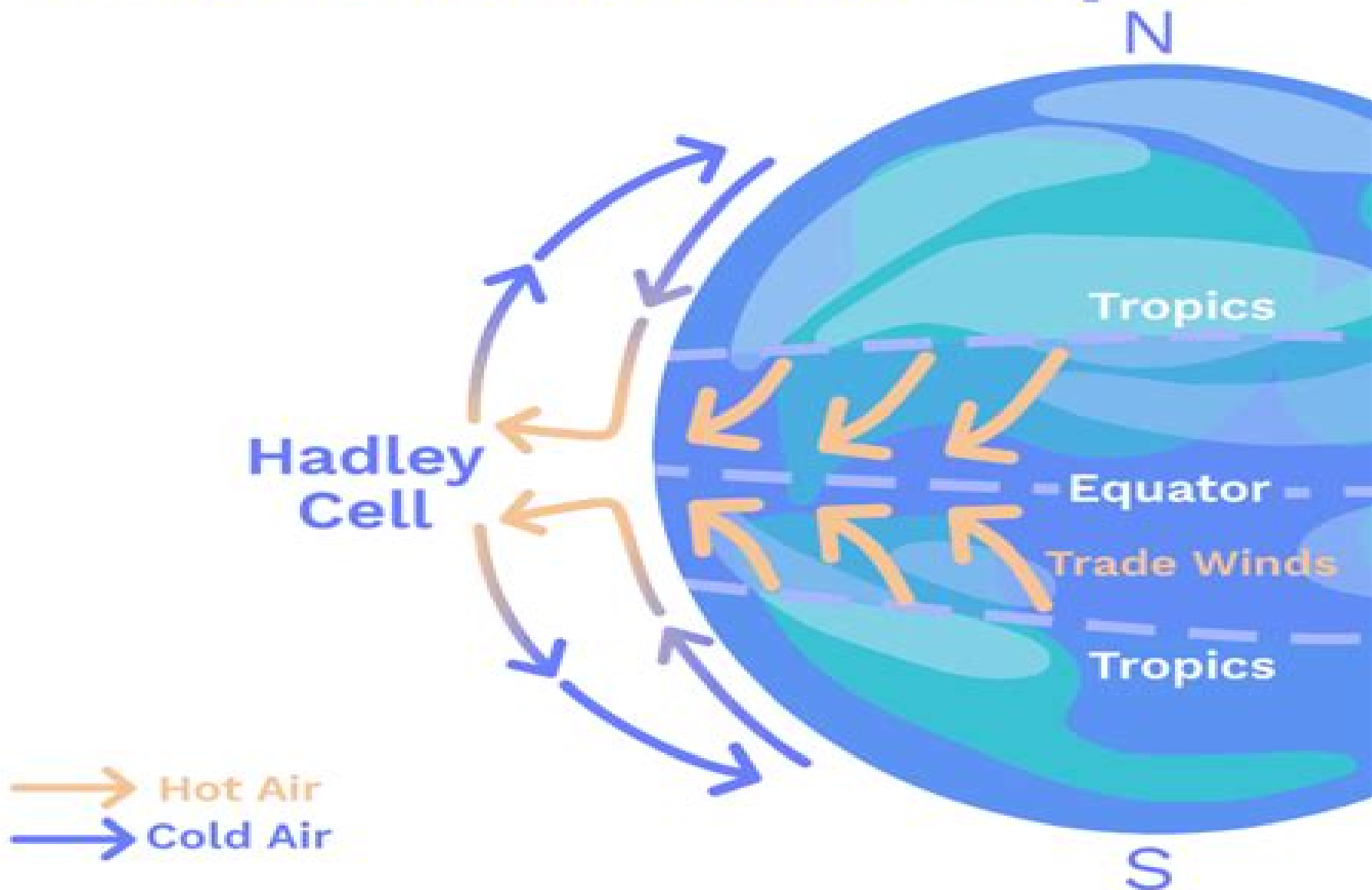


Air Circulation in the Tropics



Source: Adapted from "Hadley Cells", Harvard
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Climate And Circulation Of The Tropics

George Michael J. Giles



Climate And Circulation Of The Tropics:

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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

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 *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 **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 **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 Niño 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 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 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 *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

Climatic Change and Variability in Southern Africa
P. D. Tyson,1986 This book examines the history and mechanisms of climatic change in the southern hemisphere with emphasis on southern Africa The crucial question one which affects the lives of millions is what determines whether there will be rain or drought Professor Tyson examines this problem first in the context of geologic history He then discusses present day circulation and the manner in which the atmosphere modulates wet and dry spells He proposes a circulation model to account for paleoclimatic changes over the subcontinent during the last 25 millenia The material presented here represents research accumulated over a period of 17 years Nothing similar exists for any country in the southern hemisphere

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