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Tropical climatology. An introduction to the climates of the low latitudes. Author(s) : Nieuwolt, S. Author Affiliation : Kenyatta Univ., Nairobi, Kenya. Book : Tropical climatology.

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This chapter 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 structure of temperature and humidity are discussed in terms of latitudinal variability.

MetEd » Resource Description: Introduction to Tropical ...

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Tropical climatology: an introduction to the climates of the low latitudes. 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 Earth sciences. Climatology now includes aspects of oceanography and biogeochemistry. The main methods employed by climatologists are the analysis of observations and modelling the physical laws that determine the clima

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.

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What do we mean by 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, 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, 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 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 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 with climate and weather in a straightforward way and is clearly illustrated throughout.

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.

This book is designed as an introductory course in Tropical Meteorology for the graduate or advanced level undergraduate student. The material within can be covered in a one-semester course program. The text starts from the global scale-view of the Tropics, addressing the zonally symmetric and asymmetric features of the tropical circulation. It then goes on to progressively smaller spatial and time scales – from the El Niño Southern Oscillation and the Asian Monsoon, down to tropical waves, hurricanes, sea breezes, and tropical squall lines. The emphasis in most chapters is on the observational aspects of the phenomenon in question, the theories regarding its nature and maintenance, and the approaches to its numerical modeling. The concept of scale interactions is also presented as a way of gaining insight into the generation and redistribution of energy for the maintenance of oscillations of a variety of spatial and temporal scales.

Tropical Environments presents a comprehensive introduction to the complex systems of the tropics. Covering a broad, cross-regional range of humid through to semi-arid tropical climate zones, the 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 biophysical and human management issues.

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This original book describes the behavior of tropical cyclones in the South Pacific. It investigates the broad range of disturbance effects these violent storms have on the physical environments of the islands that lie in their path and the people who live on them. It is the first book to link these two themes – the characteristics of cyclones and their landscape impacts. Examples and illustrations are drawn widely from across the region, resulting in a highly readable volume.

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