

Satellite Altimetry Over Oceans And Land Surfaces

Animals and Me of the Ocean, Land and Sky Flexible Global Ocean-Atmosphere-Land System Model Dynamics of the Tropical Atmosphere and Oceans A Complete Course in Geography Monitoring Earth's Ocean, Land, and Atmosphere from Space-- Sensors, Systems, and Applications The International Geography Nature On the Geological Age of the North Atlantic Ocean Brief Course in Geography Grammar-school Geography Major and Minor Keys Harper's School Geography Sea and Land Nature Interactions of Land, Ocean and Humans Harper's School Geography A class-book of geography ... for intermediate and senior pupils Harper's Introductory Geography The Gallery of Geography A System of Modern Geography, Designed for the Use of Schools and Academies; Illustrated by Twenty-three Copper-plate Maps ... and Embellished with Numerous Engravings Eric I. Soyland Tianjun Zhou Peter J. Webster William Swinton Abraham Schnapf Hugh Robert Mill Edward Hull David M. Warren William Swinton Ricaredo Demetillo N. S. Shaler Sir Norman Lockyer Chris Maser Harper, firm, publishers, N.Y. William Balfour Irvine Thomas Milner Samuel Augustus Mitchell

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coupled climate system models are of central importance for climate studies a new model known as fgoals the flexible global ocean atmosphere land system model has been developed by the sate key laboratory of numerical modeling for atmospheric sciences and geophysical fluid dynamics institute of atmospheric physics chinese academy of sciences lasg iap cas a first tier national geophysical laboratory it serves as a powerful tool both for deepening our understanding of fundamental mechanisms of the climate system and for making decadal prediction and scenario projections of future climate change flexible global ocean atmosphere land system model a modeling tool for the climate change research community is the first book to offer systematic evaluations of this model s performance it is comprehensive in scope covering both developmental and application oriented aspects of this climate system model it also provides an outlook of future development of fgoals and offers an overview of how to employ the model it represents a valuable reference work for researchers and professionals working within the related areas of climate variability and change prof tianjun zhou yongqiang yu yimin liu and bin wang work at lasg the institute of atmospheric physics chinese academy of sciences china

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

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excerpt from sea and land features of coasts and oceans with special reference to the life of man the object of this book is to introduce unprofessional students of nature to certain interesting phenomena of the sea shore and of the depths of the ocean in no other fields are large and important truths which are distinctly related to human interests so readily to be traced yet the treatises which deal with these matters are few in number and generally of a recondite character about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

written by Chris Maser one of the architects of the sustainability movement interactions of land ocean and humans a global perspective explores a critical number of the myriad aspects that comprise the great reciprocal feedback loops between the mountain peaks the deep sea and everywhere in between Maser's exploration of these connections g

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