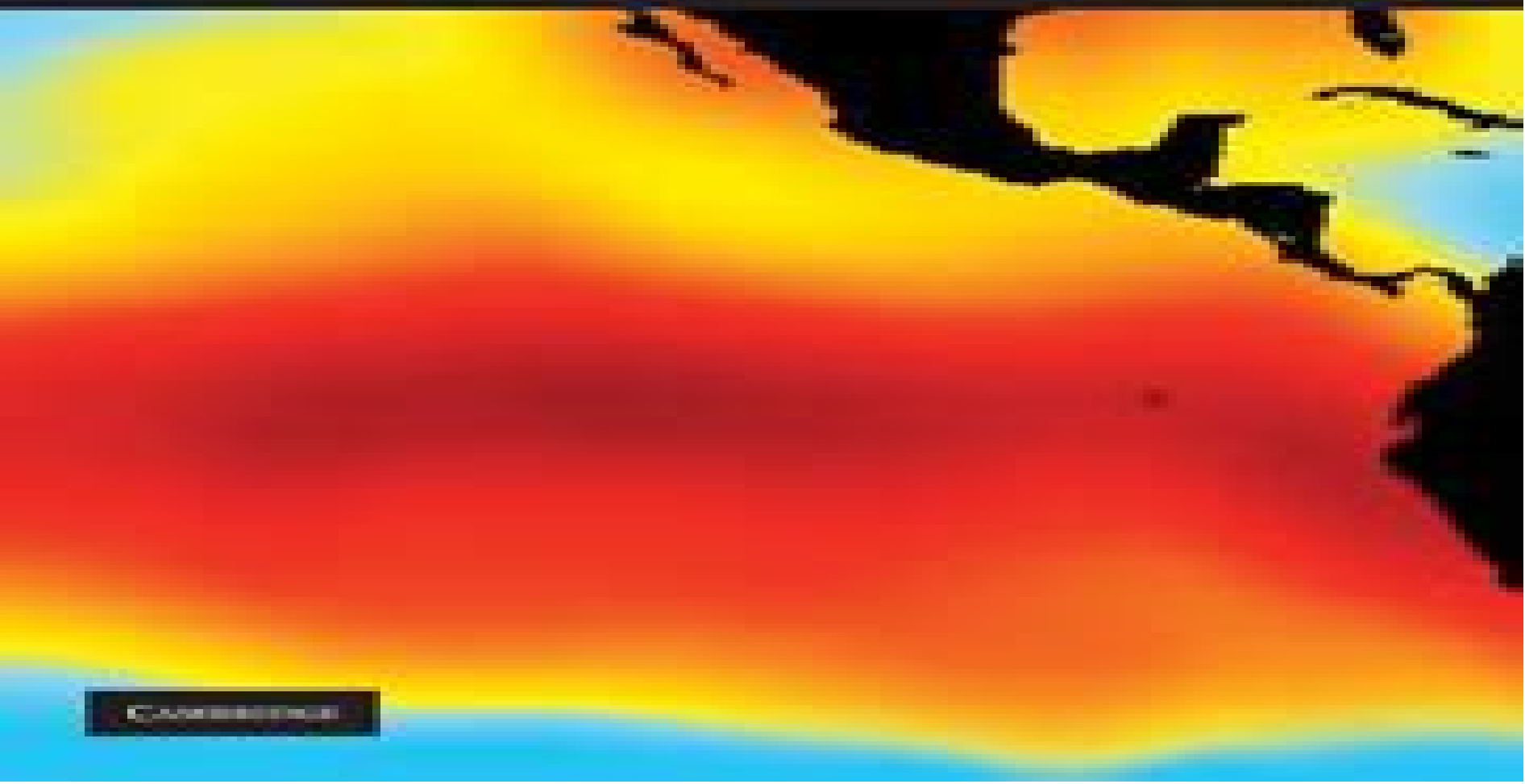


The El Niño–Southern Oscillation Phenomenon

Edward S. Sarachik and Mark A. Cane



El Nino Historical And Paleoclimatic Aspects Of The Southern Oscillation

A Gutmann



El Nino Historical And Paleoclimatic Aspects Of The Southern Oscillation:

El Niño Henry F. Diaz, Vera Markgraf, 1992 This 1993 book enhances our understanding of the mechanisms involved in the low frequency behavior of the El Nino Southern Oscillation ENSO phenomenon **El Niño and the Southern Oscillation** Henry F. Diaz, Vera Markgraf, 2000-11-09 The El Niño Southern Oscillation ENSO phenomenon is a recurrent feature of the climate in tropical regions In this volume leading experts summarize information gained over the past decade concerning diverse aspects of ENSO which have led to marked improvements in our ability to forecast its development months or seasons in advance This volume compares ENSO's modern morphology and variability with its recent historic and prehistoric behaviour It expands and updates Diaz and Markgraf's earlier volume El Niño Historical and Paleoclimatic Aspects of the Southern Oscillation 1992 Cambridge University Press The volume will be of importance to a broad range of scientists in meteorology oceanography hydrology geosciences ecology public health emergency management response and mitigation and decision making It will also be used as a supplementary textbook and reference source in graduate courses in environmental studies *El Niño* A. M. Babkina, 2003 The term El Niño Spanish for the Christ Child was originally used by fishermen along the coasts of Ecuador and Peru to refer to a warm ocean current that typically appears around Christmastime and lasts for several months Fish are less abundant during these warm intervals yet in some years however the water is especially warm and the break in the fishing season persists into May or even June El Niño also brings heavy rains During the past 40 years nine El Niños have affected the South American coast Most of them raised water temperatures not only along the coast but also at the Galapagos islands and in a belt stretching 5000 miles across the equatorial Pacific The weaker events raised sea temperatures only by one to two degrees Fahrenheit but the strong ones like the El Niño of 1982-83 left an imprint not only upon the local weather and marine life but also on climatic conditions around the globe This book includes a detailed overview and bibliography with complete title author and subject indexes **Encyclopedia of Coastal Science** M. Schwartz, 2006-11-08 Honorable Mention Award for Excellence in Scholarly and Professional Publishing Maurice Schwartz Editor of the much acclaimed Encyclopedia of Beaches and Coastal Environments Hutchinson Ross 1982 has now brought forth a new volume with a fresh interdisciplinary approach that includes geomorphology ecology engineering technology oceanography and human activities as they relate to coasts Within its covers the Encyclopedia of Coastal Science includes many aspects of the coastal sciences that are only to be found scattered among scientific literature Being broadly interdisciplinary in its treatment of coasts the Encyclopedia of Coastal Science features contributions by 245 well known international specialists in their respective fields and is abundantly illustrated with line drawings and photographs Not only does this volume offer an extensive number of entries it also includes various appendices an illustrated glossary of coastal geomorphology and extensive bibliographic listings This Encyclopedia thus provides a comprehensive reference work for students professionals as well as informed lay readers **El Niño & Long-Term Ecological Research**

Sites David Greenland,1994 [The Oryx Resource Guide to El Niño and La Niña](#) Bloomsbury Publishing,2002-05-30 Fish die Seagulls starve Economies wither And that s just in the coastal villages El Ni o The Christ Child and its climatological opposite La Ni a are global events so powerful and strange they virtually have personalities Many remember the El Ni o seasons of 1982 83 and 1997 98 which brought floods tornadoes droughts and snow to unusual locales Increased study of these Tropical Pacific phenomena also known as ENSO the El Ni o and Southern Oscillation has now enabled scientists to predict the ENSO state as much as 12 to 18 months in advance and has helped to shape weather prediction in general Here the basic causes and effects of El Ni o and La Ni a are carefully chronicled for anyone in search of accurate and current information on these natural phenomena Chapters are devoted to the history of ENSO its influence on global weather and on the United States including the ecosystem and how governments and industries worldwide are utilizing new weather data to harness ENSO s economic impact rather than be saddled by it A chronology tours key events from the 15th century diary observations of colonists in Ecuador and Peru to recent events like the devastating El Ni o of 1997 98 which was responsible for 23 000 deaths and 33 billion in damages Biographies of important researchers illustrations and maps and an extensive bibliography help make this a total guide to these magnificent natural cycles *Synoptic and Dynamic Climatology* Roger G. Barry,Andrew M. Carleton,2013-03-07 *Synoptic and Dynamic Climatology* provides the first comprehensive account of the dynamical behaviour and mechanisms of the global climate system and its components together with a modern survey of synoptic scale weather systems in the tropics and extratropics and of the methods and applications of synoptic climate classification It is unrivalled in the scope and detail of its contents The work is thoroughly up to date with extensive bibliographies by chapter It is illustrated with nearly 300 figures and plates Part 1 provides an introduction to the global climate system and the space time scales of weather and climate processes followed by a chapter on climate data and their analysis Part 2 describes and explains the characteristics of the general circulation of the global atmosphere and includes the nature and causes of global teleconnection patterns Part 3 discusses synoptic weather systems in the extratropics and tropics and satellite based climatologies of synoptic features It also describes the applications of synoptic climatology and summarises current climatic research and its directions **Past Climate Variability through Europe and Africa** Richard W. Battarbee,Françoise Gasse,Catherine E. Stickley,2007-11-06 This book provides a major synthesis of evidence for past climate variability at the regional and continental scale across Europe and Africa It focuses on two complementary time scales the Holocene approximately the last 11 500 years and the last glacial interglacial cycle approximately the last 130 000 years An overview of the climate system of the past has never been attempted before on this scale and as such the volume represents a benchmark for future research It is written by an expert group of climate change scientists and presents an insight into past climate variability that challenges climatologists who seek to explain climate dynamics of the past and provides climate modellers with a work of reference for data model comparison The book is an advanced but very readable

text essential for all students and scientists interested in global environmental change

Climatic Variations and Forcing Mechanisms of the Last 2000 Years Philip Douglas Jones, Raymond Stephen Bradley, Jean Jouzel, 2013-06-29 A profound knowledge of the past climate is vital for our understanding of global warming The past 2000 years are both the period which is of most relevance to the next century and that for which there is the most evidence High resolution proxy records for this period are available from a variety of sources Five sections consider dendroclimatology ice cores corals historical records lake varves and other indicators The final two sections cover the histories of various forcing factors and attempt to bring together records from a variety of sources and provide explanations

Defining the Pacific Fred Spier, 2024-08-01 This volume lays the physical and conceptual groundwork for the Pacific World series exploring both the constraints imposed and the opportunities offered to humanity by the physical environment of the Pacific region Organized from the perspectives of Big History and macro geography the volume presents a series of major studies and surveys by authors from a range of disciplines It opens with perspectives on the ocean and closes with questions of human settlement diffusion and trans Pacific contacts Geologists write of the origins of the Pacific its geological structure and the problem of tsunamis climatologists and oceanographers discuss the El Niño Southern Oscillation and the ocean waters biologists and biogeographers find patterns in the life of the Basin as is shown all these have their impact on the potential of the region for human use and settlement Finally geographers anthropologists and archaeologists deal with the peopling of the Pacific islands the settlement of the Americas and the incidence and importance of pre modern links across the Pacific

The Medieval Warm Period Malcolm K. Hughes, Henry F. Diaz, 2012-12-06 The Medieval Warm Period and the Little Ice Age are widely considered to have been the major features of the Earth's climate over the past 1000 years In this volume the issue of whether there really was a Medieval Warm Period and if so where and when is addressed The types of evidence examined include historical documents tree rings ice cores glacial geological records borehole temperature paleoecological data and records of solar receipts inferred from cosmogenic isotopes Growth in the availability of several of these types of data in recent years and technical advances in their derivation and use warrant this state of the art re examination of Medieval Warm Period The book will be of value to all those with an interest in the natural variability of the climate system for example those concerned with anticipating and detecting anthropogenic climate change

Encyclopedia of Environmental Change John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics

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 Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions
 to short essays making this an invaluable companion for any student of physical geography environmental geography or
 environmental sciences Uncertainty Underground Allison Macfarlane,Rodney C. Ewing,2006 Experts from science
 industry and government discuss the unresolved scientific and technical issues surrounding the Yucca Mountain site as a
 geologic repository for high level nuclear waste **History and Climate** Phil D. Jones,A.E.J. Ogilvie,T.D. Davies,K.R.
 Briffa,2013-04-17 Most studies of the impacts of climate change consider impacts in the future from anthropogenic climate
 change Very few consider what the impacts of past climate change have been History and Climate Memories of the Future
 contains 13 interdisciplinary chapters which consider impacts of change in different regions of the world over the last
 millennium Initial chapters assess evidence for the changes while later chapters consider the impacts on agriculture fisheries
 health and society The book will be of interest to anyone working in the field of climate change and history *Proceedings*
of the 11th Annual Pacific Climate (PACLIM) Workshop Caroline M. Isaacs,Vera L. Tharp,1995 20 papers included tree ring
 records from Tasmania evaluation of the relative importance of temperature and precipitation to major paleoenvironmental
 changes link between volcanism and climate cooling examination of decadel to century time scale variability in the climate
 system nonlinear time series analysis deterministic chaos offers a new paradigm for understanding irregular fluctuations
 summer temperature reconstructions from tree ring chronologies paleoclimatic data for Mexico South American hydrology El
 Nino events and more Tropical Forest Ecology Egbert Giles Leigh,1999 In Tropical Forest Ecology Egbert G Leigh Jr one
 of the world s foremost tropical ecologists introduces readers to the tropical forest and describes the intricate web of
 interdependence among the great diversity of tropical plants and animals Focusing on the tropical forest of Barro Colorado
 Island Panama Leigh shows what Barro Colorado can tell us about other tropical forests and what tropical forests can tell us
 about Barro Colorado This book considers three essential questions for understanding the ecological organization of tropical
 forests How do they stay green with their abundance of herbivores Why do they have such a diversity of plants and animals
 And what role does mutualism play in the ecology of tropical forests Beautifully written and abundantly illustrated Tropical
 Forest Ecology will certainly appeal to a wide variety of scientists in the fields of evolution tropical biology botany zoology

and natural history **Geological Approaches to Coral Reef Ecology** Richard B. Aronson, 2007-03-09 This book provides a unique perspective on the destruction both natural and human caused of coral reef ecosystems Reconstructing the ecological history of coral reefs the authors evaluate whether recent dramatic changes are novel events or part of a long term trend or cycle The text combines principles of geophysics paleontology and marine sciences with real time observation examining the interacting causes of change hurricane damage predators disease rising sea level nutrient loading global warming and ocean acidification Predictions about the future of coral reefs inspire strategies for restoration and management of ecosystems Useful for students and professionals in ecology and marine biology including environmental managers *The Weather Revolution* Jack Fishman, Robert Kalish, 2013-11-11 Weather in all its variety and majesty is both a source of Earth s awe inspiring beauty and a powerful threatening force With the brilliant technological innovations of recent times including lasers satellites and supercomputers scientists have revolutionized the science of accurate weather prediction As this intriguing work shows the gap between the art and science of forecasting is rapidly narrowing and the day when we will have accurate weekly and monthly even yearly forecasts is quickly approaching Jack Fishman and Robert Kalish acclaimed authors of *Global Alert The Ozone Pollution Crisis* clearly and eloquently explain the makings of weather from everyday winds and precipitation to the worst weather disasters They show how the power of weather still holds us at its mercy and affects us all Perilous downdrafts undetectable by airplane pilots can hurl landing planes into the runway to their doom Freezing blasts of snow and ice cause traumatic accidents on our streets Deadly tornadoes descend from thunderclouds uprooting trees devastating farmers fields and ripping buildings from their very foundations And hurricanes the most awesome storms on Earth smash into the coast with vicious strength flooding entire cities lifting houses out to sea and flattening acres of forest and farmland Within the decade scientists will have made a quantum leap in the ability to make accurate longrange forecasts Fishman and Kalish show us the stunning capabilities of a new brand of technology that is bringing about a revolution in weather forecasting Radar penetrating deep into the most menacing stormclouds allows us to see the movement of raging winds so we can warn endangered communities before catastrophe strikes Imminent laser and satellite technology will soon circle our Earth and send clear images of developing storms that will help meteorologists make predictions with an accuracy undreamed of today In addition to recent breakthroughs this fascinating work also describes pioneering scientists throughout history who used great technological innovations from the advent of the computer to rocketry to further our knowledge of weather and climate Meteorology has rapidly evolved into a cutting edge science that has irrevocably increased our understanding of the Earth This remarkable work shows us the force of weather in all its glory and danger And it paves the way for the revolution in weather science that will lead us into the future **Publications**
Abstracts Environmental Research Laboratories (U.S.), 1993 **Environmental Research Laboratories Publication**
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