

# Hurricane Climatology A Modern Statistical Guide Using R

This is likewise one of the factors by obtaining the soft documents of this Hurricane Climatology A Modern Statistical Guide Using R by online. You might not require more mature to spend to go to the book creation as competently as search for them. In some cases, you likewise do not discover the message Hurricane Climatology A Modern Statistical Guide Using R that you are looking for. It will totally squander the time.

However below, in the same way as you visit this web page, it will be therefore no question easy to acquire as well as download guide Hurricane Climatology A Modern Statistical Guide Using R

It will not recognize many mature as we run by before. You can accomplish it while take effect something else at house and even in your workplace. suitably easy! So, are you question? Just exercise just what we have enough money under as skillfully as evaluation Hurricane Climatology A Modern Statistical Guide Using R what you later than to read!

How to Design, Write, and Present a Successful Dissertation Proposal Elizabeth A. Wentz 2013-10-07 How to Design, Write, and Present a Successful Dissertation Proposal, by Elizabeth A. Wentz, is essential reading for any graduate student entering the dissertation process in the social or behavioral sciences. The book addresses the importance of ethical scientific research, developing your curriculum vitae, effective reading and writing, completing a literature review, conceptualizing your research idea, and translating that idea into a realistic research proposal using research methods. The author also offers insight into oral presentations of the completed proposal, and the final chapter presents ideas for next steps after the proposal has been presented. Taking the view that we "learn by doing," the author provides Quick Tasks, Action Items, and To Do List activities throughout the text that, when combined, develop each piece of your research proposal. Designed primarily for quantitative or mixed methods research dissertations, this book is a valuable start-to-finish resource.

Coastal Hazards Related to Storm Surge Rick Luettich 2018-03-13 This book is a printed edition of the Special Issue "Coastal Hazards Related to Storm Surge" that was published in JMSE Florida's Hurricane History Jay Barnes 2012-08-15 The Sunshine State has an exceptionally stormy past. Vulnerable to storms that arise in the Atlantic, Caribbean, and Gulf of Mexico, Florida has been hit by far more hurricanes than any other state. In many ways, hurricanes have helped shape Florida's history. Early efforts by the French, Spanish, and English to claim the territory as their own were often thwarted by hurricanes. More recently, storms have affected such massive projects as Henry Flagler's Overseas Railroad and efforts to manage water in South Florida. In this book, Jay Barnes offers a fascinating and informative look at Florida's hurricane history. Drawing on meteorological research, news reports, first-person accounts, maps, and historical photographs, he traces all of the notable hurricanes that have affected the state over the last four-and-a-half centuries, from the great storms of the early colonial period to the devastating hurricanes of 2004 and 2005--Charley, Frances, Ivan, Jeanne, Dennis, Katrina, and Wilma. In addition to providing a comprehensive chronology of more than one hundred individual storms, Florida's Hurricane History includes information on the basics of hurricane dynamics, formation, naming, and forecasting. It explores the origins of the U.S. Weather Bureau and government efforts to study and track hurricanes in Florida, home of the National Hurricane Center. But the book does more than examine how hurricanes have shaped Florida's past; it also looks toward the future, discussing the serious threat that hurricanes continue to pose to both lives and property in the state. Filled with more than 200 photographs and maps, the book also features a foreword by Steve Lyons, tropical weather expert for the Weather Channel. It will serve as both an essential reference on hurricanes in Florida and a remarkable source of the stories--of tragedy and destruction, rescue and survival--that foster our fascination with these powerful storms.

Hurricane Climatology James B. Elsner 2013-03-04 Hurricanes are nature's most destructive storms and they are becoming more powerful as the globe warms. Hurricane Climatology explains how to analyze and model hurricane data to better understand and predict present and future hurricane activity. It uses the open-source and now widely used R software for statistical computing to create a tutorial-style manual for independent study, review, and reference. The text is written around the code that when copied will reproduce the graphs, tables, and maps. The approach is different from other books that use R. It focuses on a single topic and explains how to make use of R to better understand the topic. The book is organized into two parts, the first of which provides material on software, statistics, and data. The second part presents methods and models used in hurricane climate research.

Confronting Climate Uncertainty in Water Resources Planning and Project Design Patrick A. Ray 2015-08-20 Confronting Climate Uncertainty in Water Resources Planning and Project Design describes an approach to facing two fundamental and unavoidable issues brought about by climate change uncertainty in water resources planning and project design. The first is a risk assessment problem. The second relates to risk management. This book provides background on the risks relevant in water systems planning, the different approaches to scenario definition in water system planning, and an introduction to the decision-scaling methodology upon which the decision tree is based. The decision tree is described as a scientifically defensible, repeatable, direct and clear method for demonstrating the robustness of a project to climate change. While applicable to all water resources projects, it allocates effort to projects in a way that is consistent with their potential sensitivity to climate risk. The process was designed to be hierarchical, with different stages or phases of analysis triggered based on the findings of the previous phase. An application example is provided followed by a descriptions of some of the tools available for decision making under uncertainty and methods available for climate risk management. The tool was

designed for the World Bank but can be applicable in other scenarios where similar challenges arise.

Climate Change in Asia and the Pacific Venkatachalam Anbumozhi 2012-06-13 Climate change is one of the most significant challenges to global economic development. Left unchecked, continued global warming could cause worldwide social and environmental disruption. The Asia and Pacific region is more vulnerable to climate change risks than other regions due to its dependence on the natural resources and agriculture sectors. Densely populated coastal areas, weak institutions, and the poverty of a considerable proportion of its population add to the susceptibility of this region. Adaptation—making adjustments in natural or human systems in response to actual or expected climate stimuli— becomes a key strategy for sustaining economic growth. This volume examines the framework conditions for integrating climate change adaptation measures into agriculture, water, and natural resources management activities for the Asia and Pacific region. Based on the review of country experiences, the book describes key dimensions, suggests interventions for further exploration, and serves as a basis for planning and mainstreaming climate change adaptation into sectoral planning

Occupational Outlook Handbook United States. Bureau of Labor Statistics 1976

Modern Climatology Shih-Yu (Simon) Wang 2012-03-09 Climatology, the study of climate, is no longer regarded as a single discipline that treats climate as something that fluctuates only within the unchanging boundaries described by historical statistics. The field has recognized that climate is something that changes continually under the influence of physical and biological forces and so, cannot be understood in isolation but rather, is one that includes diverse scientific disciplines that play their role in understanding a highly complex coupled "whole system" that is the earth's climate. The modern era of climatology is echoed in this book. On the one hand it offers a broad synoptic perspective but also considers the regional standpoint, as it is this that affects what people need from climatology. Aspects on the topic of climate change - what is often considered a contradiction in terms - is also addressed. It is all too evident these days that what recent work in climatology has revealed carries profound implications for economic and social policy; it is with these in mind that the final chapters consider acumens as to the application of what has been learned to date.

Attribution of Extreme Weather Events in the Context of Climate Change National Academies of Sciences, Engineering, and Medicine 2016-08-28 As climate has warmed over recent years, a new pattern of more frequent and more intense weather events has unfolded across the globe. Climate models simulate such changes in extreme events, and some of the reasons for the changes are well understood. Warming increases the likelihood of extremely hot days and nights, favors increased atmospheric moisture that may result in more frequent heavy rainfall and snowfall, and leads to evaporation that can exacerbate droughts. Even with evidence of these broad trends, scientists cautioned in the past that individual weather events couldn't be attributed to climate change. Now, with advances in understanding the climate science behind extreme events and the science of extreme event attribution, such blanket statements may not be accurate. The relatively young science of extreme event attribution seeks to tease out the influence of human-cause climate change from other factors, such as natural sources of variability like El Niño, as contributors to individual extreme events. Event attribution can answer questions about how much climate change influenced the probability or intensity of a specific type of weather event. As event attribution capabilities improve, they could help inform choices about assessing and managing risk, and in guiding climate adaptation strategies. This report examines the current state of science of extreme weather attribution, and identifies ways to move the science forward to improve attribution capabilities.

Advancing the Science of Climate Change National Research Council 2011-01-10 Climate change is occurring, is caused largely by human activities, and poses significant risks for—and in many cases is already affecting—a broad range of human and natural systems. The compelling case for these conclusions is provided in Advancing the Science of Climate Change, part of a congressionally requested suite of studies known as America's Climate Choices. While noting that there is always more to learn and that the scientific process is never closed, the book shows that hypotheses about climate change are supported by multiple lines of evidence and have stood firm in the face of serious debate and careful evaluation of alternative explanations. As decision makers respond to these risks, the nation's scientific enterprise can contribute through research that improves understanding of the causes and consequences of climate change and also is useful to decision makers at the local, regional, national, and international levels. The book identifies decisions being made in 12 sectors, ranging from agriculture to transportation, to identify decisions being made in response to climate change. Advancing the Science of Climate Change calls for a single federal entity or program to coordinate a national, multidisciplinary research effort aimed at improving both understanding and responses to climate change. Seven cross-cutting research themes are identified to support this scientific enterprise. In addition, leaders of federal climate research should redouble efforts to deploy a comprehensive climate observing system, improve climate models and other analytical tools, invest in human capital, and improve linkages between research and decisions by forming partnerships with action-oriented programs.

Weather: A Very Short Introduction Storm Dunlop 2017-01-19 From deciding the best day for a picnic, to the devastating effects of hurricanes and typhoons, the weather impacts our lives on a daily basis. Although new techniques allow us to forecast the weather with increasing accuracy, most people do not realise the vast global movements and forces which result in their day-to-day weather. In this Very Short Introduction Storm Dunlop explains what weather is and how it differs from climate, discussing what causes weather, and how we measure it. Analysing the basic features and properties of the atmosphere, he shows how these are directly related to the weather experienced on the ground, and to specific weather phenomena and extreme weather events. He describes how the global patterns of temperature and pressure give rise to the overall circulation within the atmosphere, the major wind systems, and the major oceanic currents, and how features such as mountains and the sea affect local weather. He also looks at examples of extreme and dangerous weather, such as of tropical cyclones (otherwise known as hurricanes and typhoons), describing how 'Hurricane Hunters' undertake the dangerous task of flying through them. We measure weather in a number of ways: observations taken on the land and sea; observations within the atmosphere; and measurements from orbiting satellites. Dunlop concludes by looking at how these observations have been used to develop increasingly sophisticated long- and short-range weather forecasting, including ensemble forecasting. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Hurricanes and the Middle Atlantic States Rick Schwartz 2007 Hurricanes and the Middle Atlantic States focuses on the hurricane history of Delaware, Maryland, New Jersey, Pennsylvania and

Virginia, although adjacent states are not neglected. It explores lessons learned and risks ahead. The book is geared to a general audience and is appropriate for teenagers and adults. It features fascinating stories, vintage and recent photographs and other illustrations. Hurricane history repeats. This book offers a window to the past and a meteorological crystal ball to the future.

The Regional Impacts of Climate Change Intergovernmental Panel on Climate Change 1998 Cambridge, UK : Cambridge University Press, 1998.

Storm World Chris C. Mooney 2007 Uses scientific evidence from the 2006 hurricane season to study the link between global warming and the ferocity of hurricanes and explores the influence of the media and politicians on commonly held ideas about climate change.

The Metrics Manifesto Richard Seiersen 2022-05-03 Security professionals are trained skeptics. They poke and prod at other people's digital creations, expecting them to fail in unexpected ways. Shouldn't that same skeptical power be turned inward? Shouldn't practitioners ask: "How do I know that my enterprise security capabilities work? Are they scaling, accelerating, or slowing as the business exposes more value to more people and through more channels at higher velocities?" This is the start of the modern measurement mindset—the mindset that seeks to confront security with data. The Metrics Manifesto: Confronting Security with Data delivers an examination of security metrics with R, the popular open-source programming language and software development environment for statistical computing. This insightful and up-to-date guide offers readers a practical focus on applied measurement that can prove or disprove the efficacy of information security measures taken by a firm. The book's detailed chapters combine topics like security, predictive analytics, and R programming to present an authoritative and innovative approach to security metrics. The author and security professional examines historical and modern methods of measurement with a particular emphasis on Bayesian Data Analysis to shed light on measuring security operations. Readers will learn how processing data with R can help measure security improvements and changes as well as help technology security teams identify and fix gaps in security. The book also includes downloadable code for people who are new to the R programming language. Perfect for security engineers, risk engineers, IT security managers, CISOs, and data scientists comfortable with a bit of code, The Metrics Manifesto offers readers an invaluable collection of information to help professionals prove the efficacy of security measures within their company.

Perspectives on Atmospheric Sciences Theodore Karacostas 2018-09-07 This book provides the proceedings of the 13th International Conference of Meteorology, Climatology and Atmospheric Physics (COMCAP 2016) that is held in Thessaloniki from 19 to 21 September 2016. The Conference addresses fields of interest for researchers, professionals and students related to the following topics: Agricultural Meteorology and Climatology, Air Quality (Indoor and Outdoor), Applied Meteorology and Climatology, Applications of Meteorology in the Energy sector, Atmospheric Physics and Chemistry, Atmospheric Radiation, Atmospheric Boundary layer, Biometeorology and Bioclimatology, Climate Dynamics, Climatic Changes, Cloud Physics, Dynamic and Synoptic Meteorology, Extreme Events, Hydrology and Hydrometeorology, Mesoscale Meteorology, Micrometeorology-Urban Microclimate, Remote Sensing- Satellite Meteorology and Climatology, Weather Analysis and Forecasting. The book includes all papers that have been accepted after peer review for presentation in the conference.

The Federal Response to Hurricane Katrina Superintendent of Documents 2006 "The objective of this report is to identify and establish a roadmap on how to do that, and lay the groundwork for transforming how this Nation- from every level of government to the private sector to individual citizens and communities - pursues a real and lasting vision of preparedness. To get there will require significant change to the status quo, to include adjustments to policy, structure, and mindset"--P. 2.

Earth 2020: An Insider's Guide to a Rapidly Changing Planet Philippe Tortell 2020-04-22 Fifty years have passed since the first Earth Day, on 22 April 1970. This accessible, incisive and timely collection of essays brings together a diverse set of expert voices to examine how the Earth's environment has changed over this past half century, and what lies in store for our planet over the coming fifty years. Earth 2020: An Insider's Guide to a Rapidly Changing Planet responds to a public increasingly concerned about the deterioration of Earth's natural systems, offering readers a wealth of perspectives on our shared ecological past, and on the future trajectory of planet Earth. Written by world-leading thinkers on the front-lines of global change research and policy, this multi-disciplinary collection maintains a dual focus: some essays investigate specific facets of the physical Earth system, while others explore the social, legal and political dimensions shaping the human environmental footprint. In doing so, the essays collectively highlight the urgent need for collaboration across diverse domains of expertise in addressing one of the most significant challenges facing us today. Earth 2020 is essential reading for everyone seeking a deeper understanding of the past, present and future of our planet, and the role of humanity in shaping this trajectory.

Selected Bibliography of Engineering Subjects Engineers' Council for Professional Development 1950

Hurricane Risk Jennifer M. Collins 2019-02-15 This book details the outcomes of new research focusing on climate risk related to hurricanes. Topics include numerical simulation of tropical cyclones, through tropical cyclone hazard estimation to damage estimates and their implications for commercial risk. Inspired by the 6th International Summit on Hurricanes and Climate Change: From Hazard to Impact, this book brings together leading international academics and researchers, and provides a source reference for both risk managers and climate scientists for research on the interface between tropical cyclones, climate and risk.

A Statistical Model of Severe Winds Luis Augusto Sanabria 2007

Hurricanes of the North Atlantic James B. Elsner 1999 As people continue to develop coastal areas, society's liability to hurricanes will dramatically increase, regardless of changes in the environment. This book addresses these key issues, providing a detailed examination of

Global Environmental Change National Research Council 1999-09-14 How can we understand and rise to the environmental challenges of global change? One clear answer is to understand the science of global change, not solely in terms of the processes that control changes in climate and the composition of the atmosphere, but in how ecosystems and human society interact with these changes. In the last two decades of the twentieth century, a number of such research efforts--supported by computer and satellite technology--have been launched. Yet many opportunities for integration remain unexploited, and many fundamental questions remain about the earth's capacity to support a growing human population. This volume encourages a renewed commitment to understanding global change and sets a direction for research in the decade ahead. Through case studies the book explores what can be learned from the lessons of the past 20 years and what are the outstanding scientific questions. Highlights include: Research imperatives and strategies for investigators in the areas of atmospheric chemistry, climate, ecosystem studies, and

human dimensions of global change. The context of climate change, including lessons to be gleaned from paleoclimatology. Human responses to--and forcing of--projected global change. This book offers a comprehensive overview of global change research to date and provides a framework for answering urgent questions.

Multivariate Analysis in Community Ecology Hugh G. Gauch 1982-02-26 A full description of computer-based methods of analysis used to define and solve ecological problems. Multivariate techniques permit summary of complex sets of data and allow investigation of many problems which cannot be tackled experimentally because of practical restraints.

Statistical Postprocessing of Ensemble Forecasts Stéphane Vannitsem 2018-05-17 Statistical Postprocessing of Ensemble Forecasts brings together chapters contributed by international subject-matter experts describing the current state of the art in the statistical postprocessing of ensemble forecasts. The book illustrates the use of these methods in several important applications including weather, hydrological and climate forecasts, and renewable energy forecasting. After an introductory section on ensemble forecasts and prediction systems, the second section of the book is devoted to exposition of the methods available for statistical postprocessing of ensemble forecasts: univariate and multivariate ensemble postprocessing are first reviewed by Wilks (Chapters 3), then Schefzik and Möller (Chapter 4), and the more specialized perspective necessary for postprocessing forecasts for extremes is presented by Friederichs, Wahl, and Buschow (Chapter 5). The second section concludes with a discussion of forecast verification methods devised specifically for evaluation of ensemble forecasts (Chapter 6 by Thorarinsdottir and Schuhen). The third section of this book is devoted to applications of ensemble postprocessing. Practical aspects of ensemble postprocessing are first detailed in Chapter 7 (Hamill), including an extended and illustrative case study. Chapters 8 (Hemri), 9 (Pinson and Messner), and 10 (Van Schaeybroeck and Vannitsem) discuss ensemble postprocessing specifically for hydrological applications, postprocessing in support of renewable energy applications, and postprocessing of long-range forecasts from months to decades. Finally, Chapter 11 (Messner) provides a guide to the ensemble-postprocessing software available in the R programming language, which should greatly help readers implement many of the ideas presented in this book. Edited by three experts with strong and complementary expertise in statistical postprocessing of ensemble forecasts, this book assesses the new and rapidly developing field of ensemble forecast postprocessing as an extension of the use of statistical corrections to traditional deterministic forecasts. Statistical Postprocessing of Ensemble Forecasts is an essential resource for researchers, operational practitioners, and students in weather, seasonal, and climate forecasting, as well as users of such forecasts in fields involving renewable energy, conventional energy, hydrology, environmental engineering, and agriculture. Consolidates, for the first time, the methodologies and applications of ensemble forecasts in one succinct place Provides real-world examples of methods used to formulate forecasts Presents the tools needed to make the best use of multiple model forecasts in a timely and efficient manner

Modeling Count Data Joseph M. Hilbe 2014-07-21 "This entry-level text offers clear and concise guidelines on how to select, construct, interpret, and evaluate count data. Written for researchers with little or no background in advanced statistics, the book presents treatments of all major models using numerous tables, insets, and detailed modeling suggestions. It begins by demonstrating the fundamentals of linear regression and works up to an analysis of the Poisson and negative binomial models, and to the problem of overdispersion. Examples in Stata, R, and SAS code enable readers to adapt models for their own purposes, making the text an ideal resource for researchers working in public health, ecology, econometrics, transportation, and other related fields"--

Selected Bibliography of Engineering Subjects: Aeronautical engineering (1950) Engineers' Council for Professional Development 1950

Cities and Flooding Abhas K. Jha 2012-02-01 Urban flooding is an increasing challenge today to the expanding cities and towns of developing countries. This Handbook is a state-of-the art, user-friendly operational guide that shows decision makers and specialists how to effectively manage the risk of floods in rapidly urbanizing settings--and within the context of a changing climate.

Needs Assessment David Royse 2009-02-09 This text features discussions on emerging technologies in the field of needs assessment as well as abundant social work case examples. It covers one of the most essential kinds of research for social work management.

Global Perspectives on Tropical Cyclones

Multivariate and 2D Extensions of Singular Spectrum Analysis with the Rssa Package Nina Golyandina 2015-02-08 Implementation of multivariate and 2D extensions of singular spectrum analysis (SSA) by means of the R-package Rssa is considered. The extensions include MSSA for simultaneous analysis and forecasting of several time series and 2D-SSA for analysis of digital images. A new extension of 2D-SSA analysis called Shaped 2D-SSA is introduced for analysis of images of arbitrary shape, not necessary rectangular. It is shown that implementation of Shaped 2D-SSA can serve as a base for implementation of MSSA and other generalizations. Efficient implementation of operations with Hankel and Hankel-block-Hankel matrices through the fast Fourier transform is suggested. Examples with code fragments in R, which explain the methodology and demonstrate the proper use of Rssa, are presented.

Design Of Coastal Structures And Sea Defenses Kim Young C 2014-09-25 Coastal structures are an important component in any coastal protection scheme. They directly control wave and storm surge action or to stabilize a beach which provides protection to the coast. This book provides the most up-to-date technical advances on the design and construction of coastal structures and sea defenses. Written by renowned practicing coastal engineers, this edited volume focuses on the latest technology applied in planning, design and construction, effective engineering methodology, unique projects and problems, design and construction challenges, and other lessons learned. Many books have been written about the theoretical treatment of coastal and ocean structures. Much less has been written about the practical practice aspect of ocean structures and sea defenses. This comprehensive book fills the gap. It is an essential source of reference for professionals and researchers in the areas of coastal, ocean, civil, and geotechnical engineering.

Contemporary Climatology P.J. Robinson 2014-09-25 Now in its second edition, Climatology continues to provide an up-to-date stimulating and comprehensive guide to the nature of the earth's climate. It presents a synthesis of contemporary scientific ideas about atmospheric circulation. Topics covered include: -Energy systems-The hydrological cycle-General circulation, local and regional climate-Application of climate information-Use of satellite observations

Pure and Applied Science Books, 1876-1982 1982 Over 220,000 entries representing some 56,000 Library of Congress subject headings. Covers all disciplines of science and technology, e.g., engineering, agriculture, and domestic arts. Also contains at least 5000 titles published before 1876. Has many applications in libraries, information centers, and other organizations concerned

with scientific and technological literature. Subject index contains main listing of entries. Each entry gives cataloging as prepared by the Library of Congress. Author/title indexes.

Climate Time Series Analysis Manfred Mudelsee 2010-08-26 Climate is a paradigm of a complex system. Analysing climate data is an exciting challenge, which is increased by non-normal distributional shape, serial dependence, uneven spacing and timescale uncertainties. This book presents bootstrap resampling as a computing-intensive method able to meet the challenge. It shows the bootstrap to perform reliably in the most important statistical estimation techniques: regression, spectral analysis, extreme values and correlation. This book is written for climatologists and applied statisticians. It explains step by step the bootstrap algorithms (including novel adaptations) and methods for confidence interval construction. It tests the accuracy of the algorithms by means of Monte Carlo experiments. It analyses a large array of climate time series, giving a detailed account on the data and the associated climatological questions. This makes the book self-contained for graduate students and researchers.

NOAA Technical Report NWS, United States. National Weather Service 1971

Practical Meteorology Roland Stull 2018 A quantitative introduction to atmospheric science for students and professionals who want to understand and apply basic meteorological concepts but who are not ready for calculus.

Storm Tide Frequencies on the South Carolina Coast Vance A. Myers 1975

Climate Extremes S.-Y. Simon Wang 2017-06-15 Although we are seeing more weather and climate extremes, individual extreme events are very diverse and generalization of trends is difficult. For example, mid-latitude and subtropical climate extremes such as heat waves, hurricanes and droughts have increased, and could have been caused by processes including arctic amplification, jet stream meandering, and tropical expansion. This volume documents various climate extreme events and associated changes that have been analyzed through diagnostics, modeling, and statistical approaches. The identification of patterns and mechanisms can aid the prediction of future extreme events. Volume highlights include: Compilation of processes and mechanisms unique to individual weather and climate extreme events Discussion of climate model performance in terms of simulating high-impact weather and climate extremes Summary of various existing theories, including controversial ones, on how climate extremes will continue to become stronger and more frequent Climate Extremes: Patterns and Mechanisms is a valuable resource for scientists and graduate students in the fields of geophysics, climate physics, natural hazards, and environmental science. Read an interview with the editors to find out more:

<https://eos.org/editors-vox/how-does-changing-climate-bring-more-extreme-events>

At What Cost Nicholas Freudenberg 2021-02-16 An incisive and powerful investigation of corporate impact on human and planetary well-being Freedom of choice lies at the heart of American society. Every day, individuals decide what to eat, which doctors to see, who to connect with online, and where to educate their children. Yet, many Americans don't realize that these choices are illusory at best. By the start of the 21st century, every major industrial sector in the global economy was controlled by no more than five transnational corporations, and in about a third of these sectors, a single company accounted for more than 40 percent of global sales. The available options in food, healthcare, education, transportation, and even online presence are largely constructed by corporations, whose sweeping influence have made them the public face and executive agents of 21st-century capitalism. At What Cost confronts how globalization, financial speculation, monopolies, and control of science and technology have enhanced the ability of corporations and their allies to overwhelm influences of government, family, community, and faith. As corporations manipulate demand through skillful marketing and veto the choices that undermine their bottom line, free consumer choice has all but disappeared, and with it, the personal protections guarding our collective health. At What Cost argues that the world created by 21st-century capitalism is simply not fit to solve our most serious public health problems, from climate change to opioid addiction. However, author and public health expert Nicholas Freudenberg also shows that though the road is steep, human and planetary well-being constitute a powerful mobilizing idea for a new social movement, one that will restore the power of individual voice to our democracy. With impeccably detailed research and an eye towards a better future, At What Cost arms ordinary citizens, activists, and health professionals with an understanding of how we've arrived at the precipice, and what we can do to ensure a healthier collective future.