

Stéphane Hallegatte

Natural Disasters and Climate Change

An Economic Perspective



Springer

Natural Disasters And Climate Change An Economic Perspective

**Evan Lau, Widya Paramita, Kai-Hong
Tee, Lee Ming Tan**



Natural Disasters And Climate Change An Economic Perspective:

Natural Disasters and Climate Change Stéphane Hallegatte, 2014-09-17 This book explores economic concepts related to disaster losses describes mechanisms that determine the economic consequences of a disaster and reviews methodologies for making decisions regarding risk management and adaptation The author addresses the need for better understanding of the consequences of disasters and reviews and analyzes three scientific debates on linkage between disaster risk management and adaptation to climate change The first involves the existence and magnitude of long term economic impact of natural disasters on development The second is the disagreement over whether any development is the proper solution to high vulnerability to disaster risk The third debate involves the difficulty of drawing connections between natural disasters and climate change and the challenge in managing them through an integrated strategy The introduction describes economic views of disaster including direct and indirect costs output and welfare losses and use of econometric tools to measure losses The next section defines disaster risk delineates between good and bad risk taking and discusses a pathway to balanced growth A section entitled Trends in Hazards and the Role of Climate Change sets scenarios for climate change analysis discusses statistical and physical models for downscaling global climate scenarios to extreme event scenarios and considers how to consider extremes of hot and cold storms wind drought and flood Another section analyzes case studies on hurricanes and the US coastline sea level rises and storm surge in Copenhagen and heavy precipitation in Mumbai A section on Methodologies for disaster risk management includes a study on cost benefit analysis of coastal protections in New Orleans and one on early warning systems in developing countries The next section outlines decision making in disaster risk management including robust decision making No regret and No risk strategies and strategies that reduce time horizons for decision making Among the conclusions is the assertion that risk management policies must recognize the benefits of risk taking and avoid suppressing it entirely The main message is that a combination of disaster risk reduction resilience building and adaptation policies can yield large potential gains and synergies

Economics of Natural Disasters and Climate Change Derya Dogan, 2013-01-31 Master's Thesis from the year 2012 in the subject Economics Macro economics general grade 1 3 University of Wuppertal Schumpeter School of Business and economics course VWL Makro konomie language English abstract During past centuries natural disasters occurred more often in our environment and caused more serious damage worldwide The Hurricane Irene in the Caribbean and the USA the floods in Australia the earthquake in New Zealand and especially in Japan in 2011 had enormous extends concerning the caused loss and damages in the specific regions Within the past four decades the frequency of large natural disasters raised three times more Furthermore the economic losses after adjusting for inflation increased even eight times more compared to the past decades This also has a great impact on the insurance industry since the insured losses increase even in a larger amount compared to other factors affected by natural disasters However the insurance industry uses in spite of these unfavorable loss trends a wide range of coverage against

disasters such as Cat Bonds to transfer the disaster risk and to avoid unnecessary expenses Climate change also plays a big role in the frequently occurring amount of disasters Since it is still hard to estimate the impacts of future climate changes for the frequency and intensity of natural disasters with its huge losses new policies such as Green Growth have been introduced for mitigation effects The purpose of this thesis is to represent and describe the economics of natural disasters due to climate change with its macroeconomic aspects and structural effects While demonstrating the impacts on natural disasters to a region's economy it is important to know that many other factors are linked with natural disasters that have an effect on a region's economy Therefore after defining the important terms in the first section of this thesis the scope and costs of natural disasters will be illustrated in chapter 2 for a better demonstration of the disaster events impacts in general This will start by describing the reasons for climate change to demonstrate in the latter the increasing number of disaster appearances due to the effects of climate change Different regions will be considered within this analysis whereas in the following sections only the regions which are economically vulnerable to natural disasters will be taken into account to illustrate the costs of natural disasters

Asian Development Outlook 2019 Asian Development Bank, 2019-04-01 The annual Asian Development Outlook now in its 30th year analyzes economic performance in the past year and forecasts performance in the next 2 years for the 45 economies in Asia and the Pacific that make up developing Asia Growth prospects in developing Asia remain strong despite persistent external headwinds responsible for moderating expansion since 2017 Global trade and economic activity weakened toward the end of 2018 slowing growth in many economies in the region The outlook is cloudy with risks that tilt to the downside A drawn out trade conflict could undermine trade and investment in the region and US fiscal policy and the consequences of a disorderly Brexit could weigh on growth in the advanced economies and the People's Republic of China Though the risk of sharp increases in US interest rates has subsided policy makers must stay vigilant Disasters are shaped by natural hazards and the dynamics of the economy society and environment in which they occur They pose a growing threat to development and prosperity in the region their consequences disproportionately severe in developing countries especially for the poor and marginalized As developing Asia is home to more than four fifths of the people affected by disasters globally in the past 2 decades the region must strengthen its disaster resilience This means integrating disaster risk reduction into national development and investment plans spending more on prevention for a better balance with spending on rescue and recovery and pooling risk through insurance and reinsurance

Economic Analysis of Climate-Proofing Investment Projects Asian Development Bank, 2015-09-01 Climate change represents an increasing threat to the continued development of the people preservation of ecosystems and economic growth of Asia and the Pacific Mainstreaming climate risk management in all aspects of development is thus key to an effective transition to climate resilient development pathways ADB's climate risk management framework aims to reduce risks resulting from climate change to investment projects in Asia and the Pacific A key step in this framework is the technical and economic valuation of climate proofing measures This report

describes the conduct of the cost benefit analysis of climate proofing investment projects An important message is that the presence of uncertainty about climate change does not invalidate the conduct of the economic analysis of investment projects nor does it require a new type of economic analysis However the presence of uncertainty does require a different type of decision making process in which technical and economic expertise combine to present decision makers with the best possible information on the economic efficiency of alternative designs of investment projects

Economic Effects of Natural Disasters Taha Chaiechi, 2020-10-16 *Economic Effects of Natural Disasters* explores how natural disasters affect sources of economic growth and development Using theoretical econometrics and real world data and drawing on advances in climate change economics the book shows scholars and researchers how to use various research methods and techniques to investigate and respond to natural disasters No other book presents empirical frameworks for the evaluation of the quality of macroeconomic research practice with a focus on climate change and natural disasters Because many of these subjects are so large different regions of the world use different approaches hence this resource presents tailored economic applications and evidence Connects economic theories and empirical work in climate change to natural disaster research Shows how advances in climate change and natural disaster research can be implemented in micro and macroeconomic simulation models Addresses structural changes in countries afflicted by climate change and natural disasters

Managing Soil Drought Rattan Lal, 2024-06-10 Global drylands covering over 40% of Earth's land surface are important among worldwide ecoregions and support large human and livestock populations However these ecologically sensitive ecoregions are undergoing a rapid transformation resulting from climate change socioeconomic and political factors increases in population and ever growing demands for goods and services *Managing Soil Drought* addresses basic processes and provides specific case studies throughout covering the protection restoration and sustainable management goals of global drylands under changing and harsh climatic conditions including fragile and vulnerable ecosystems The book is written by numerous researchers academicians practitioners advocates land managers and policymakers involved in bringing about transformation in these regions important to human and nature It includes information on basic strategies of sustainable management of global drylands aimed at improving water use efficiency through choosing appropriate species developing new varieties using organic and inorganic amendments and scaling up innovative farming systems This volume in the *Advances in Soil Sciences* series is an essential read for development organizations and policymakers involved in improving crop productivity and sustainability in drought prone regions students researchers and academicians interested in sustainable management of water resources and those involved in emerging concepts of regenerative agriculture agroecology and conservation agriculture

Toward Green Economy: Opportunities and Obstacles for Western Balkan Countries M. Radovic-Markovic, Z. Nikitovic, D. Jovancevic, 2015-05-22 The green economy represents an important support to economic growth investments and competitiveness Therefore it is considered to be an important alternative in attaining the

general wellbeing of the humans which is seen in the decrease of the risk while preserving the environment and using alternative energy sources Atmospheric gases especially carbon dioxide create the greenhouse effect which influences the climate changes They are already generating the extreme weather conditions including powerful hurricanes and floods which have recently affected the Western Balkans Having this in mind this book is created with the intention not only to point out to the extent to which the Western Balkan countries have accepted the concept of green growth but also to see what results are achieved in respect of implementation of this concept with the goal of overcoming the economic and financial crisis and creating the conditions for sustainable growth of this Region Besides this the intention was to emphasise the political economic and legal limitations that are blocking faster development of green economy as well as the possibilities of their overcoming This monograph has a very broad topic range with the goal of comprising the most important aspects and considerations of these issues As the end result of theoretical and research considerations of the author in approximately twenty chapters one gets a clear insight in how the Region has progressed in respect of making the most important sectors green

Economics and Finance Readings Evan Lau,Widya Paramita,Kai-Hong Tee, Lee Ming Tan,2024-08-27 This book is a compilation of the best papers presented at the 2023 edition of the Asia Pacific Conference on Economics Finance APEF which is held annually in Singapore It presents the latest research findings in economics and finance and discusses relevant issues in today's world The book is a useful resource for readers who want access to economics finance and business research that focusing on the Asia Pacific region

Economic Impacts and Emergency Management of Disasters in China Xianhua Wu,Ji Guo,2021-04-23 This book uses cutting edge methods such as big data mining methods on social media generalized difference in difference inoperational input output models improved data envelopment analysis improved computable general equilibrium and others to calculate the economic impacts of climate and environmental disasters on China This book provides the ideas methods and cases of the redistribution of air pollution emissions in China through evaluating the benefits of meteorological disaster services and meteorological financial insurance Using big data resources and data mining methods as well as econometric models etc this book provides a comprehensive assessment of the economic impact of disasters in China and studies China's counterpart aid policy and international aid policy for disasters This book is an academic monograph devoted to the China's case study The intended readership includes academics government officials graduate students and people concerned about China

Handbook of Disaster Risk Reduction for Resilience Saeid Eslamian,Faezeh Eslamian,2021-06-14 This book is part of a six volume series on Disaster Risk Reduction and Resilience The series aims to fill in gaps in theory and practice in the Sendai Framework and provides additional resources methodologies and communication strategies to enhance the plan for action and targets proposed by the Sendai Framework The series will appeal to a broad range of researchers academics students policy makers and practitioners in engineering environmental science and geography geoscience emergency management finance community adaptation atmospheric science and

information technology This volume discusses how to measure and build disaster resilience at society's capacity drawing upon individual institutional and collective resources to cope with and adapt to the demands and challenges of natural disaster occurrences The book will serve as a guide outlining the key indicators of disaster resilience in urban and rural settings and the resources and strategies needed to build resilient communities in accordance with the targets of the Sendai Framework Readers will learn about multi risk reduction approaches using computational methods data mining techniques and System Thinking at various scales as well as institutional and infrastructure resilience strategies based on several case studies

Climate Change as Environmental and Economic Hazard Boris Porfiriev, 2009-12-01 The current policy for climate change prioritises mitigation over adaptation The collected papers of *Climate Change as Environmental and Economic Hazard* argue that although efforts to reduce greenhouse gas emissions are still vital the new policy paradigm should shift the priority to adaptation with a special focus on disaster risk reduction It should also consider climate change not purely as a hazard and a challenge but as a window of opportunity to shift to a new sustainable development policy model which stresses the particular importance of communities resilience The papers in this volume explore the key issues linked to this shift including Increasing research into the Earth Sciences climate reconstruction and forecasting in order to decrease the degree of uncertainty about the origin development and implications of climate change The introduction of more binding and comprehensive regulation of both greenhouse gas emissions and adaptation measures like that in the United Kingdom Matching climate policy with that for disasters and mainstreaming it into overall development strategies The volume is a valuable addition to previous climate change research and considers a new policy approach to this new global challenge

Climate Change 2014 - Impacts, Adaptation and Vulnerability: Global and Sectoral Aspects Christopher B. Field, Vicente R. Barros, 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard reference for all those concerned with climate change and its consequences including students researchers and policy makers in environmental science meteorology climatology biology ecology atmospheric chemistry and environmental policy

Disaster Resilience in Asia Asian Development Bank, 2021-07-01 The Asia and Pacific region has seen tremendous economic and social progress since the 1960s Yet the region remains vulnerable to disaster risk that threatens its hard won gains Over the years developing Asia has endured a growing number of disasters triggered by natural hazards As a result numerous lives livelihoods and communities have been damaged or lost The coronavirus disease COVID 19 pandemic is testament to the debilitating effects of such a disaster on people businesses and economies Indeed in 2020 developing Asia suffered its first economic contraction in 6 decades Now more than ever the region must find ways to reduce its vulnerability to hazards and build economic resilience

Banking Institutions and Natural Disasters Andi Duqi, 2023-07-21 This book looks more closely at how natural disasters impact bank activity and how banks can support economic recovery after a natural disaster The importance of banks in this context is underscored by increasing regulatory

attention on their role in fostering a sustainable future but also on the risks that climate change poses to bank stability. Humanity has tried to cope with the short and long term economic consequences of natural disasters for centuries. However, the severity of these events is constantly increasing in magnitude due to the alteration of the earth's climate and the environment. They pose a serious threat to the lives of millions of people, especially in less developed countries. At the same time, the international community has acknowledged that weather hazards impact and countries' resilience to them are affected by various socio-economic factors such as the well-functioning of financial institutions, especially commercial banks. Banks will inevitably adapt their strategies to address concerns arising from climate change. In doing this, the book discusses partnerships with international cooperation institutions, other financial intermediaries, and local governments so that the green transition ensures an inclusive growth for all, especially the most vulnerable parts of our societies. This book is of interest to researchers, academics, and students of sustainable finance and climate finance. **World Economic Outlook,**

October 2017 International Monetary Fund. Research Dept., 2017-10-10. The global upswing in economic activity is strengthening. Global growth, which in 2016 was the weakest since the global financial crisis at 3.2 percent, is projected to rise to 3.6 percent in 2017 and to 3.7 percent in 2018. The growth forecasts for both 2017 and 2018 are 0.1 percentage point stronger compared with projections earlier this year. Broad-based upward revisions in the euro area, Japan, emerging Asia, emerging Europe, and Russia, where growth outcomes in the first half of 2017 were better than expected, more than offset downward revisions for the United States and the United Kingdom. But the recovery is not complete while the baseline outlook is strengthening; growth remains weak in many countries, and inflation is below target in most advanced economies. Commodity exporters, especially of fuel, are particularly hard hit as their adjustment to a sharp step down in foreign earnings continues. And while short-term risks are broadly balanced, medium-term risks are still tilted to the downside. The welcome cyclical pickup in global activity thus provides an ideal window of opportunity to tackle the key policy challenges, namely to boost potential output while ensuring its benefits are broadly shared and to build resilience against downside risks. A renewed multilateral effort is also needed to tackle the common challenges of an integrated global economy. **State**

Repression in Post-Disaster Societies Clair Apodaca, 2017-01-20. A natural hazard is a physical event, but a disaster is a social and political phenomenon. Natural hazards are for the most part unavoidable and apolitical. However, they carry with them serious political, economic, and social consequences. Disasters also have adverse consequences on human rights standards. An understanding of the relationship between disasters and human rights outcomes requires knowledge of how disasters increase grievance and frustration and impact the probability of contentious political behavior. To date, there has been little empirical or theoretical research on the specific circumstances under which disasters impact antigovernment political behavior, and even less is known of the causal chain between a natural disaster, protest activity, and human rights violations. In this book, Clair Apodaca maps a comprehensive causal model of the complex interactions between disasters and

human rights violations She claims that pre existing inequalities and societal grievances turn a natural hazard into a disaster A grievance based theory of protests suggests that the underlying structural causes are social and economic group disparities political exclusion along with population pressures To turn these all too common conditions into active political behavior requires a triggering event When a damage loss is the primary consequence of a disaster the government and international community can compensate victims by providing rebuilding and reconstruction aid However when the disaster results in high numbers of fatalities the government and international community cannot adequately compensate survivors for their losses Grievances cannot be easily or effectively eliminated and survivors and their supporters mobilize for change even if they are likely to face state repression Clair Apodaca offers a unique contribution to our understanding of human rights violations She effectively shows that there is a causal process between hazard events protest activities and government repression a finding that is key to scholars practitioners and policy makers working in this field Comparative Perspectives on Environmental Policies and Issues Robert A. Dible, 2014-01-10 Comparative Perspectives on Environmental Policies and Issues presents tools and concepts about environmental policies in several developed and developing countries It explores a broad survey of ecological modernization theory ecological feminism theory environmental justice theory the concept of sustainability and research on environmental policies Data were collected through surveys interviews and focus groups and are used to analyze social economic and environmental impact on people The book specifically discusses how the earth's basic life supporting capital soils forests species fresh water and oceans is degraded or depleted to provide for human needs and how air pollution and acid precipitation are causing widespread injury to humans forests and crops Realistically over taxing of natural resources and ecological systems throughout the world has promoted economic growth and created increasing opportunities for people while also advancing social injustice The use of the environment to accomplish social and economic transformation raises fundamental issues for the study of environmental policy and the natural ecological system As human beings exploit the natural environment to meet present needs they often will destroy resources needed for the future generations Thus environmental policies are enacted to ensure that social and economic impacts of the environment are compatible with the limits of natural systems Offering an intuitive and crystal clear explanation of the key concepts and principles of environmental policies and sustainable development this volume is suitable not only for environmental science students but also for instructors practitioners researchers and academics **Green Fiscal Rules? Challenges and Policy Alternatives** Francesca Caselli, Andresa Lagerborg, Mr. Paulo A Medas, 2024-06-21 This paper studies the impact of green fiscal rules designed to protect climate related spending on debt dynamics Simulations of green rules that exempt green spending from the rule limits for an emerging market economy illustrate that they can lead to unsustainable debt dynamics when the net zero emissions goal is pursued mostly using spending based instruments e.g. investment and subsidies Or the rule would need to implicitly assume a large fiscal adjustment in the non green budget which would undermine its credibility

It will be needed to build broad public consensus for a more comprehensive fiscal strategy that tackles the difficult policy tradeoffs that will be required and takes into account long term effects A more appropriate mix of climate policies including actively employing carbon pricing should be pursued within the overall setting of fiscal and debt objectives Developing green medium term fiscal frameworks would help to integrate climate change considerations into fiscal policy design in a more comprehensive manner

Weather and climate extremes in the urban environment: Modeling and observations Chenghao Wang,Ashish Sharma,Quang-Van Doan,V. Vinoj,Zhaowu Yu,2022-12-26 **A New Perspective on Temperature Shocks** Nooman Rebei,2025-02-21 Prevailing research suggests that climate change disproportionately burdens emerging markets and developing economies with greater output losses compared to advanced economies positing that colder regions are less impacted than their warmer counterparts This study revisits the empirical relationship between temperature fluctuations and real growth with a novel focus on differentiating between transitory versus permanent temperature shifts aligning naturally with the definitions of weather and climate change respectively Our findings reveal that richer and colder economies exhibit better adaptation only in response to weather shocks whereas the pattern reverses for climate change disturbances challenging the conclusions of previous studies

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web aug 11 2021 a concussion also known as traumatic brain injury tbi is the result of trauma to the brain due to a fall or collision the sudden jerking motions of the head and neck resulting from trauma cause the brain to twist and bounce inside the skull immediately damaging its cells and surrounding structures

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web based on the most recent data there were approximately 214 110 tbi related hospitalizations in 2020 and 69 473 tbi related deaths in 2021 1 this represents more than 586 tbi related hospitalizations and 190 tbi related deaths per day these estimates do not include the many tbis that are only treated in the emergency department primary

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web concussion describes a brain injury where after an injury there are functional changes that occur in how the brain works but no structural damage can be seen on standard imaging tests like ct scan mild traumatic brain injury mtbi or concussion can be defined as a short lived loss of brain function due to head trauma that resolves

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web concussion acceleration g forces can exert rotational forces in the brain especially the midbrain and diencephalon a concussion also known as a mild traumatic brain injury mtbi is a head injury that temporarily affects brain functioning 9 symptoms may include loss of consciousness memory loss headaches difficulty with thinking

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web a traumatic brain injury or tbi is an injury that affects how the brain works tbi is a major cause of death and disability in the united states anyone can experience a tbi but data suggest that some groups are at greater risk for getting a tbi or having worse health outcomes after the injury 190 about 190 americans died from

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web oct 28 2023 mild traumatic brain injury tbi and concussion can have serious consequences that develop over time with unpredictable levels of recovery millions of concussions occur yearly and a substantial number result in lingering symptoms loss of productivity and lower quality of life the diagnosis may not be made for multiple

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