# *International Society for Integrated Disaster Risk Management*


# *IDRiM Newsletter*

Issue 8, August 2014

# Contents

# 1. IDRIM NEWS

# Building Disaster Resilient Communities
# The 5th Conference of the International Society for Integrated Disaster Risk Management (IDRiM 2014)

**30th October – 1st November 2014**

**Western University, London, Ontario, Canada**

We are pleased to announce that the 5th Conference of the International Society for Integrated Disaster Risk Management (IDRiM 2014) will be hosted by Western University, in London, Ontario, Canada from 30 October to 1 November 2014.

Website: http://www.has.uwo.ca/cs/idrim/

**Conference Overview**

The focus of the conference builds on opportunities through science and technology, political will and behaviour change to reduce the risk of disasters for future generations. Knowledge about the nature and context of natural hazards has proliferated, yet the loss of life and property damage due to disasters remains unacceptably high. The disjuncture between existing opportunities and disaster risk management actions is a complex problem. Driven by common objectives, there is a need to bridge gaps and promote integrated, science-based solutions to empower local communities to advance disaster reduction, adapt to climate change and promote sustainable development. The

conference aims to address opportunities for action through varied state of the art contributions from the worlds of disaster science, technology, policy and practice. It is also open to expertise less conventionally recognised within this field. It intends to stimulate a next generation of ideas and actions for disaster reduction.

**Cross-cutting Themes**

The conference focus solicits papers and sessions informed by cross-cutting themes of disaster risk management, sustainable development, resilience building, vulnerability reduction, risk assessment and governance, risk financing, living with uncertainty, transformative processes, cultural recognition and change, poverty reduction, wellbeing, climate change adaptation, integration science, crisis communication, innovation, communities of practice, and policy including dialogue from different disciplines related to risk management. These cross-cutting themes from academic, policy and practice dialogues will for the purpose of this conference be considered interrelated, mutually informative and key to moving from opportunity to action. The conference focus will be maintained by reflecting on how theory, method and implementation presented by these processes can make a difference to build disaster resilient communities.

**Conference topics particularly encouraged**

We are keen to receive proposals for papers or sessions relating to the following, though other contributions associated with the conference theme absent from this list will also be considered:

1 Building disaster resilient societies

2 Integrating with climate change and development goals

3 Making cities resilient – case studies and best practices

4 Creating an enabling environment to achieve resilience

5 Emerging tools for integrated disaster management\

6 Risk governance frameworks for resilient communities

7 Strategies for (long term) post disaster mitigation measures

**Conference Features**

The conference will include plenary, parallel, poster, panel, ‘young scientists’ and doctoral sessions. Peer reviewed proceedings will be produced with special editions of

journals/book. Several publishers are interested in providing outlets for this event. Further partnerships and sponsorships in progress.

**Dates**

March 15, 2014 Call for papers and session proposals. Send to twaddington@iclr.org
March 30, 2014 Opening of registrations
May 15, 2014 Abstract and session proposals closing;
August 15, 2014 Notification of session and abstract acceptance;
August 31, 2014 Announcement of conference programme;
August 31, 2014 Full paper submission and early registration close.

**Website:**

http://www.has.uwo.ca/cs/idrim/

**Contacts:**

twaddington@iclr.org

IDRiM website: http://idrim.org Email: society@idrim.org

## 2. Other NEWS

# IPCC publishes its Fifth Assessment Report (AR5)

From the Fact Sheet and FAQ report (see website below):

The IPCC's Fifth Assessment Report (AR5) contains contributions from three Working Groups. Working Group I assesses the physical science basis (see also last IDRiM Newsletter issues) of climate change. Working Group II assesses impacts, adaptation, and vulnerability (see http://ipcc-wg2.gov/AR5/), while Working Group III assesses the mitigation of climate change (see http://mitigation2014.org/). The Synthesis Report draws on the assessments made by all three Working Groups.

The Working Group II contribution to the AR5 (WGII AR5) has 30 chapters, a Technical Summary, and a Summary for Policymakers. The WGII AR5 considers the vulnerability and exposure of human and natural systems, the observed impacts and future risks of climate change, and the potential for and limits to adaptation. The chapters of the report assess risks and opportunities for societies, economies, and ecosystems around the world.

The 242 Lead Authors and 66 Review Editors involved in the WGII AR5 are experts from around the world in disciplines including natural and physical sciences, engineering, social sciences, public policy, and development and management sciences. 436 additional experts were invited by the Lead Authors of the report to be Contributing Authors and to provide specific knowledge or expertise in particular areas. Lead Authors and Review Editors were selected for their scientific and technical expertise in the areas covered by the approved chapter outlines for the WGII AR5 from lists of experts nominated by governments and IPCC observer organizations. Regional and gender balance was also considered, as well as ensuring the involvement of experts who had not worked on previous IPCC assessments. In the course of their work on the WGII AR5, authors spent countless volunteer hours, participated in hundreds of web-based meetings, and attended four Lead Author meetings to assess thousands of scientific and technical sources. Over 12,000 references are cited in the WGII AR5.

The objective of the contribution of Working Group II to the AR5 (WGII AR5), Climate Change 2014: Impacts, Adaptation, and Vulnerability, is to consider the vulnerability and exposure of human and natural systems, the observed impacts and future risks of climate change, and the potential for and limits to adaptation. The chapters of the report assess risks and opportunities for societies, economies, and ecosystems around the world. The 30-chapter report is divided into two volumes. Volume I focuses on global and sectoral aspects. It introduces the report with chapters that provide the context for

the AR5, followed by those on natural and managed resources and systems; human settlements, industry, and infrastructure; and human health, well-being, and security. Volume I has a set of four chapters on adaptation. The final three chapters in Volume I synthesize information from Volume I and II chapters to provide multi-sector impacts, risks, vulnerabilities, and opportunities. Volume II chapters provide assessments on regions.

**IPCC Website: http://www.ipcc.ch/report/ar5/wg2/**

**See also**

**Climate Change 2014: Mitigation of Climate Change**
**Website: http://mitigation2014.org/**

**and**

**Climate Change 2014: Impacts, Adaptation, and Vulnerability**
**Website: http://ipcc-wg2.gov/AR5/**

# 3. Ongoing Field Work

## Exploring the Role of Risk Perception in Household Natech Evacuation Decision Making

**Junlei YU**
**PhD Student, Graduate School of Engineering, Kobe University**

### Introduction

Natural disasters can trigger chemical accidents with impacts on the nearby residents. These conjoint natural and technological disasters are known as Natechs. For emergency responders, managing an evacuation for a Natech event may be more difficult than for other hazards, because Natechs often involve large geographical extents due to the large impact zone of natural hazards [1].Thus, large number of residents in a relative large area should be protected. Furthermore, a Natech is often accompanied with fires, explosions and/or toxic releases and the impacted area may also expand at any time if the Natech cannot be controlled in a timely and effective manner. Residents who live within the danger area may need special care or be evacuated quickly [2]. In addition, unlike a hurricane or flood, a Natech may not be easily predicted. So emergency responders do not have enough time to organize and motivate the residents to move. These uncertainties highlight the importance of analyzing people's evacuation behavior during a Natech accident in order to assist emergency mangers to communicate risk with and implement protective measures on the vulnerable groups.

The perception of risk plays a key role in understanding the evacuation decision making process and in communicating the risks to people. This is because public risk perception is positively correlated with public response and adjustment to a particular hazard event [3]. Dash and Gladwin (2007) argued that risk perception is a more consistent indication of evacuation behavior [4]. Moreover, risk perception was also found to have influence on people's intention to adopt flood hazard adjustments [5].For risk communication, risk perception is also positively associated to warning response in the case of hurricane [6], flooding, and technological hazards [3]. However, these findings are not in agreement. For example, Lindell and Whitney (2000) found that perceived risk was not significantly correlated with either adoption intentions or actual adoption of seismic hazard adjustments [7]. Bubeck, et al. (2012) argued that risk perception is a rather weak predictor of flood protective behavior [8]. Even if these disagreements still exist; we cannot deny the role that risk perception plays in studying evacuation behavior. Therefore, in this paper, using the data collected from households who experienced a Natech accident during the Great East Japan earthquake and tsunami in Japan on March 11, 2011, the changes of risk perception throughout the evacuation process and the role they played in motivating households' evacuation decision making were studied.

## Methodology

The research target of this study are the residential areas around the JX Sendai refinery which was affected by a serious Natech accident during the Great East Japan earthquake and tsunami. As the layout of the refinery in Fig. 1 shows, the JX refinery is located in Shichigahama town, Tagajo city and Sendai city. The Natech accident was so serious that three evacuation orders were issued by three different cities.

In the study, data collection involved two field person-to-person surveys and one mail survey in order to understand residents' attitude, protective actions such as evacuation due to the Natech, and to collect more details of Natech damages and the evacuation order issuing process. The first person-to-person survey was conducted on November 10, 2013. Thirteen residents living within 3 km of the JX refinery were randomly selected and interviewed. The second person-to-person survey, supported by the [1]RESTO-TERRIN Project, was carried out from March 17-20, 2014. During the survey we interviewed the personnel at the JX refinery and disaster management officers who experienced or were in charge of investigating the Natech accidents triggered by the Great East Japan earthquake and tsunami. The mail survey was sent out on March 13, 2014 and involved the mailing of 1,632 questionnaires to households in Shichigahama town and Tagajo city within 2.5 km of the JX refinery. Samples were randomly selected basing on the detailed addresses updated on August 24, 2012 from a Japanese map publisher, Zenrin Co,Ltd. We received a total of 484 completed questionnaires, with a response rate of 29.4 %. Fig. 2 presents the distribution of (a) sampled households and (b) returned questionnaires. In the following section we present a summary and discussion of the preliminary results.

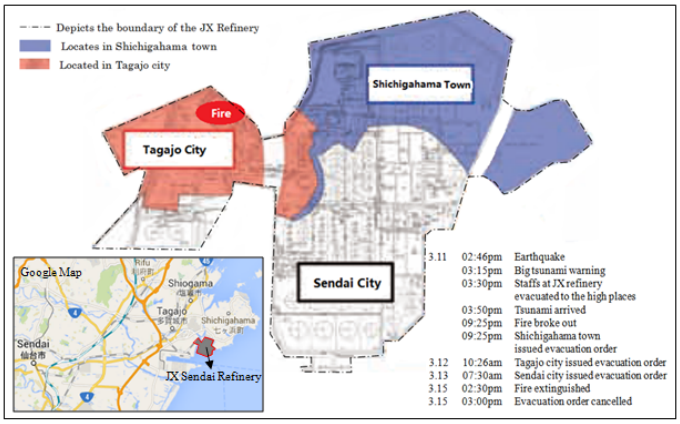


Fig. 1. Location, layout and accident process at Sendai JX refinery (Base map [9], time line [10] [11])

[1] RESTO-TERRIN Project: MEDDE funded project, entitled Contribution to the Systemic Modeling of Technical and Organizational Resilience of a Territory to Natech Risk: from microscopic to macroscopic (2013-2016).

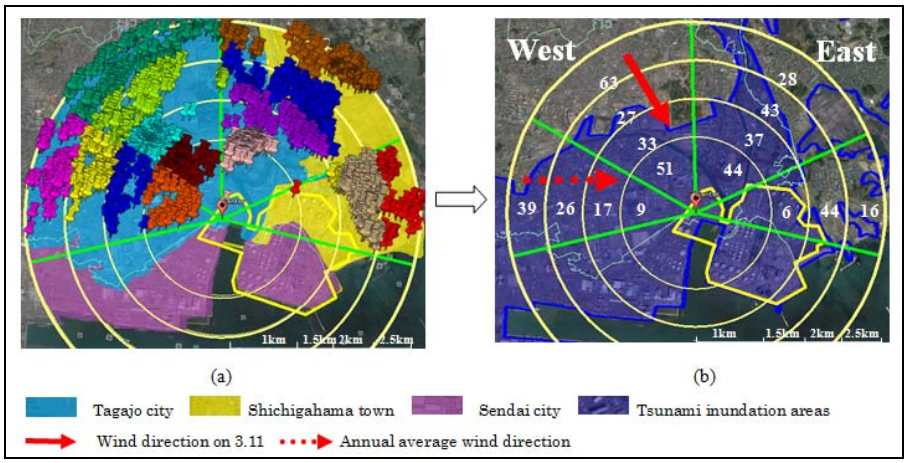

Fig. 2. Distribution of (a) sampled households and (b) number of returned questionnaires.

## Results and Discussions

We used risk likelihood and severity to measure the risk perception levels by asking: how likely did you think a Natech would be a threat to your lives or property before the Tohoku earthquake, just after the earthquake shaking, and in the next 10 years. Furthermore, we asked to what extent residents felt that a Natech would affect their lives or property before the Tohoku earthquake, just after the earthquake shaking, when they perceived the danger of the Natech, when they received the Natech evacuation order, while staying at the evacuation shelters, and in the next 10 years. Results show that people's risk perception in terms of the perceived likelihood that a Natech would cause harm to their lives or property increased (as expected) after experiencing the Natech during the Tohoku earthquake. See Fig. 3. However, as presented in Fig. 4, no change was found for risk perception in terms of the perceived severity of the impacts of a Natech accident when compared with their responses before the Tohoku earthquake and in the next 10 years. This may because no deaths, injuries or severe environmental damage due to the Natech was reported. In addition, we found that households felt that the Natech was very serious when: a. they perceived its occurrence, b. while they were staying at the first/second evacuation shelter, and c. when they received the Natech evacuation order. This finding can assist emergency managers to identify the best time to communicate risk with potential evacuees and this also indicates that future study should be focused on how to improve the effectiveness of wording and dissemination of the evacuation message.

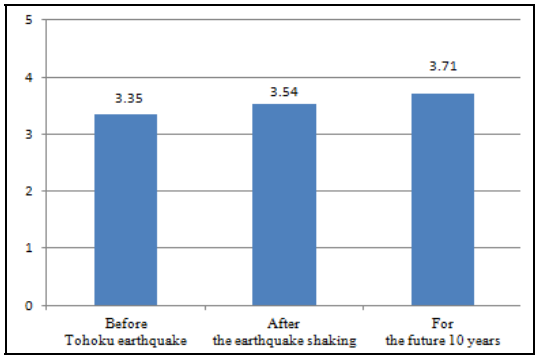

Fig. 3 Mean risk likelihood rating for Natech

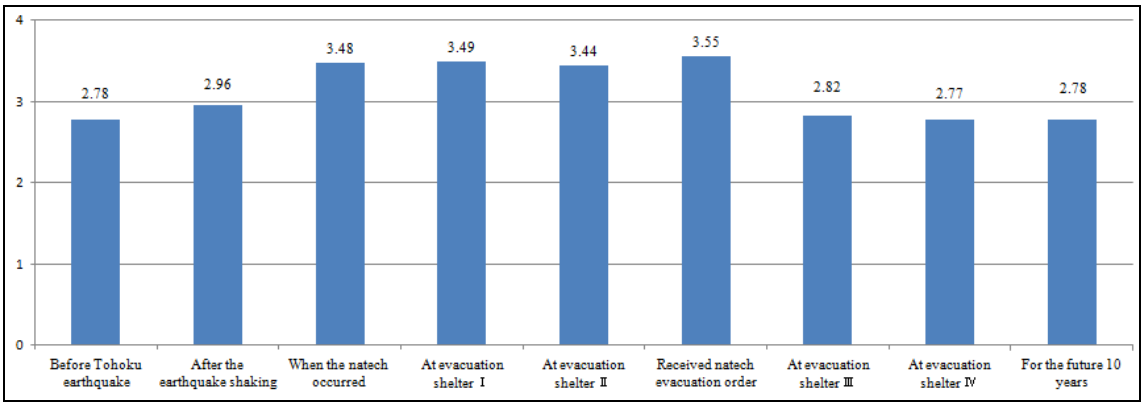

Fig. 4 Mean risk severity ratings for Natech throughout the evacuation process

Using logistic regression models, we also analyzed how risk perceptions together with geographic and demographic variables influenced people's evacuation decisions due to the Natech danger in order to comply with official orders. Results showed that wind direction (B=2044, exp(B)=11.41, p≤0.01) and people's perception of the natech severity when they perceived its occurrence motivated (B=1.77, exp(B)=5.89, p≤0.05) more people to evacuate. And we also found that being a female (B= 1.22, exp(B)=3.40, p≤0.01) made it more likely to comply with the Natech evacuation order. At last, to our surprise, results showed that people's perception about the Natech severity when they received the Natech evacuation orders played a negative role in evacuation motivation (B=-0.95, exp(B)=0.39, p≤0.05). This may due to the fact that many evacuees were reluctant to evacuate again for a Natech because they had already evacuated due to the earthquake/tsunami. Even those who have higher severity risk perception about the Natech when they received the Natech evacuation order were less likely to evacuate again. This finding may be important to emergency mangers or local officers to make a more effective plan to protect evacuees who may need to evacuate more than once.

Further research is continuing with a focus on how to improve the effectiveness of the evacuation orders by identifying when, where, and how to issue and disseminate them. Another key point is to understand the dynamics of multiple evacuations such as identifying which groups are more likely willing to evacuate more than once and what factors are more effective in motivating them.

**References:**

[1] Steinber LJ, Segul H, Cruz AM. Natech risk and management: an assessment of the state of the art. Nat Hazards (2008) 46:143-152.
[2] Junlei Yu, Akihiko Hokugo, Tomoaki Nishino. Damage Analysis for industrial installations triggered by Tsunami of the 2011 Great East Japan Earthquake. IDRiM 2013 Northumbria University, Newcastle upon Tyne, UK 4-6 September, 2013.
[3] Peacock WG, Brody SD, Highfield W. Hurricane risk perceptions among Florida's single family homeowners. Landscape and Urban Planning 73 (2005):120-135.
[4] Dash N, Gladwin H. Evacuation decision making and behavioral responses: Individual and household. Natural Hazards Review, 2007: 8(3):69-77.
[5] Terpstra T, Lindell MK. Citizens' perception of flood hazard adjustments: an application of the protective action decision model. Environmental and Behavior:45(8): 933-1018

[6] Baker EJ. Hurricane evacuation behavior. International Journal of Mass Emergencies and disasters, 1991, 9(2):287-310.
[7] Lindell MK, Whitney DJ. Correlates of household seismic hazard adjustment adoption. Risk Analysis, 2000;20(1): 13-25.
[8] Bubeck, P., Botzen, W. J. W. and Aerts, J. C. J. H. (2012), A Review of Risk Perceptions and Other Factors that Influence Flood Mitigation Behavior. Risk Analysis, 32: 1481–1495.
[9] Yamagochi Kensi (山口健志). Fire-fighting activities of Sendai JX refinery in Tohoku Earthquake. Safety & Tomorrow No.144 (2012.7). (in Japanese)
[10] Tagajo City Documentary of Tohoku Earthquake damages (in Japanese) Accessed 16 Aug, 2014. http://www.city.tagajo.miyagi.jp/saigai/book/_SWF_Window.html?pagecode=55
[11] Fire-fighting activities of Sendai city in Tohoku Earthquake (in Japanese). Accessed 16 Aug, 2014. http://www.fdma.go.jp/disaster/syodokatudo_arikata_kento/sankou/sendai.pdf

# 4. Conference Announcements

- **30 October – 1 November 2014**
  IDRiM 2014

  The 5th Conference of the International Society for Integrated Disaster Risk Management (IDRiM 2014), entitled “Building Disaster Resilient Communities” will be held at Western University, London, Ontario, Canada from 30 October to 1 November 2014. For more information, see page 4 of this Newsletter.

  **Website:** http://www.has.uwo.ca/cs/idrim/

- **2-5 September, 2014**
  After disaster strikes: Learning from adversity

  The Australasian Fire Authority Council (AFAC) will host the conference in Wellington, New Zealand. This four day conference will aim to bring together emergency management sector to share experience, research and analysis from across the sector. An exchange of knowledge and understanding will be explored to better prepare and secure the region’s future and prosperity.

  **Website:** http://knowledgeweb.afac.com.au/events/conference

- **12-14 September 1014**
  DPM: Disaster Prevention and Mitigation 2014

  2014 Conference on Disaster Prevention and Mitigation (DPM 2014) will be held from September 12-14, 2014 in Wuhan, China. This Conference will cover issues on Disaster Prevention and Mitigation. It dedicates to creating a stage for exchanging the latest research results and sharing the advanced research methods. Wuhan, known as the 'Thoroughfare to Nine Provinces', is an important central city in China and the political, economic, scientific & technological, cultural and financial center in inland China. The third longest river of the world, the Yangtze River, and its longest branch, the Han River, cross here and divide the city into three parts, Hankou, Hanyang and Wuchang. We look forward to seeing you in Wuhan! Topics: Buildings and constructions, Urban/rural environmentsand settlements, Infrastructures, Disaster Prevention and Disaster Recovery, Policies and management, Social aspects and education.

  **Website:**
  http://www.engii.org/workshop/DPM2014September/Home.aspx?utm_campaign=dpm&utm_source=e_cp&utm_medium=e_cp_conf_workshop_dpm2_20140311

- **24–26 September**
  Deltas in Times of Climate Change II

  Floods in Bangkok and the Thames delta, salt intrusion in Egypt and Bangladesh: these are just some examples of rising risks to deltas and delta cities driven by climate change. Action is required now. Exchanging scientific knowledge, lessons learned and best practices is vital. This conference will make that happen. The three main goals of the conference are: Exchanging of up-to-date top science on climate change and delta planning. Exploring and intensifying the links between science, policy and practice, Strengthening of international cooperation between deltas and delta cities. You can enjoy three plenary sessions with interesting top level speakers and choose between many sessions: Deltas in Practice: sessions to showcase and discuss experiences with adaptation, best practices, case studies, tools and methods Deltas in Depth: sessions with presentations and discussions of scientific findings of Delta research and its relevance for practical applications Delta Sessions: presentations and discussions about challenges of specific deltas and solutions they opt for Round Tables: round table discussions for government officials, the business community, policy makers and NGOs: Mayors Table, financing adaptation and community based adaptation

  **Website:** http://www.climatedeltaconference2014.org/programme

- **6–8 October**
  South Africa Society for Disaster Reduction Conference

  The aims of the conference are threefold. Provide a platform for the presentation, discussion and debate of different academic and professional approaches and research on disaster risk reduction issues. To engage in mentorship, policy influence and advocacy. Provide concrete inputs to the post-2015 discussions. Themes inclue: Disaster Risk: The Namibian Context, Humanitarian relief in SADC, HFA current implications, and future perspectives, Gender and Disaster Risk, Technological innovation for DRR, Public management and administration in disaster risk management: Global, Regional nad local perspectives, Environmenval management/conservation in DRM, Urban risk and Africas changing risk profile

  **Website:** http://www.sasdir.org/?q=conf2014

- **19–21 November**
  The 5th International Conference on Sustainable Future for Human Security.

  The past four conferences have attracted more than 500 participants from Europe, Africa and Asia, with highly-qualified papers and posters. This time we are expecting more than two hundred participants for oral and poster presentations. The SUSTAIN conference originated from the need to provide an inter-disciplinary forum where the most serious problems affecting a sustainable future for human security can be discussed, in recognition of the fact that many future problems cannot be solved by a "siloed" approach. The conference will address problems of primary importance for human security, discussing and proposing a more constructive and progressive approach to ensure future societal sustainability. The meeting will provide a common forum for a wide range of researchers and practitioners specialising in a range of subjects related to the conference themes.

  Website: http://www.sustain-conference.com/

- **21–23 January 2015**
  Eleventh International Conference on Environmental, Cultural, Economic and Social Sustainability.

  There is widespread consensus that sustainable development pays dividends for posterity. However, the fault lines in developmental processes call for us to rethink methods and approaches with honesty, transparency and integrity. Deep research needs to inform the nexus between the four pillars of social, economic, cultural and environmental sustainability. New models and modalities of participation need to be scoped and developed. Universities and Governments all over the world are moving into the management models for research with a focus on impacts. Our Sustainability Knowledge Community has a seminal foundation of taking holistic and accountable approaches for research and development since the Johannesburg World Summit on Sustainable Development in 2002. It is the single largest platform for the discourse of sustainability that is holistic through the four pillar approach. We urge you and your colleagues to participate and contribute to knowledge that will inform the post 2015 Development Agenda. We look forward to the critical discourse on Sustainable Development Goals when we meet in Copenhagen in January 2015.'

  **Website:** http://onsustainability.com/the-conference

# 5. Internet Resource List

- Tangible Earth, including ipad android version.
  http://www.tangible-earth.com/en/

- Disaster Resilient Australia – Knowledge Hub
  http://www.emknowledge.gov.au/

- Global Disaster Watch
  http://globaldisasterwatch.blogspot.co.at/

- RSOE EDIS - Emergency and Disaster Information Service
  http://hisz.rsoe.hu/alertmap/index2.php

- GDACS - Global Disaster Alert and Coordination System
  http://www.gdacs.org/

- Pacific Disaster Center
  http://www.pdc.org/

- Global Assessment Report on Disaster Risk Reduction 2013:
  http://www.preventionweb.net/english/hyogo/gar/2013/en/home/index.html

- United Nations Office for Disaster Risk Reduction. Global Assessment Report (GAR): http://www.unisdr.org/we/inform/gar

- PreventionWeb: Serving the information needs of the disaster reduction community: http://www.preventionweb.net/english/.

- Disaster Reduction Hyper base: Web based facility to compile appropriate disaster reduction technologies and knowledge.
  Website:
  http://drh.edm.bosai.go.jp/

- MCEER: Collection of disaster management resources, including international, federal, state, local and non-profit organizations:
  Website:
  http://mceer.buffalo.edu/infoservice/reference_services/disasterManagementResources.asp

- Staffordshire Raynet: Disaster and Emergency Management on the Internet. Long list of websites for various disasters and databases.
  Website:
  http://www.keele.ac.uk/depts/por/disaster.htm

- Internet Resources for Disaster Studies: University of Delaware Library
  Website:
  http://www2.lib.udel.edu/subj/disasters/internet.htm

- FEMA" Federal Emergency Management Agency: Focus is on the US
  Website:
  http://www.fema.gov/index.shtm

- EDEN - Extension Disaster Education Network: Reducing the Impact of Disasters Through Education
  Website:
  http://eden.lsu.edu/EDENCourses/Pages/default.aspx

- Disaster Handbook: University of Florida.
  Website:
  http://disaster.ifas.ufl.edu/links.htm

- Disaster Management: Royal Roads University.
  Website:
  http://libguides.royalroads.ca/content.php?pid=64941&sid=480216

- Natural Hazards and Disaster Information Resources: University of Colorado at Boulder (including newsletter).
  Website:
  http://www.colorado.edu/hazards/resources/

# 6. (New) Journals

- **Journal of Integrated Disaster Risk Management, IDRIM Journal:**

  - **Objective:** The main objective of IDRiM is to provide an integrated and implementable approach to the growing demand for disaster risk reduction and management by offering reliable, affordable and effective solutions for minimizing the loss of life, property damage, and social and economic disruption. IDRiM also explores implementation science for disaster reduction. IDRiM intends to provide a set of solutions for the all types of: environmental and natural hazards (earthquakes, flood, drought, windstorms, landslides, etc.) and man-made hazards. It also includes the development of methods and tools for modeling and assessment of disaster risks, hazard zonation and hazard mapping; geotechnical zonation, vulnerability analysis, strengthening design of structures, disaster risk evaluation and mapping; and various types of risk management methods such as innovative risk transfer, risk reduction policy; socio-economic studies, human and economic loss estimation, practical loss-control measures, catastrophic risk insurance, public awareness, programming; and solutions for risk reduction in buildings, lifelines, infrastructures, industry, oil-chemical facilities, offshore structures and urban system. IDRiM also covers the governance of disaster risks, design of institutional schemes, participatory approach, etc.

  - **Website:** http://idrimjournal.com/index.php/idrim

- **Weather and Climate Extremes**

  - **Objective:** Weather and Climate Extremes provides academics, decision makers, international development agencies, nongovernmental organizations and civil society with publications on different aspects of research in weather and climate extremes, monitoring and early warning systems, assessment of vulnerability and impacts, developing and implementing intervention policies, effective risk management and adaptation practices to address local and regional needs and circumstances, engagement of local communities in the adoption of these practices to cope with extremes, and information and communication strategies. The journal encourages the submission of original research papers, comprehensive review articles, and short communications which address the following: Weather and Climate Extremes •Types of extremes •Quality and quantity of data and data analysis •Frequency, intensity, spatial extent, duration, and timing of extreme events •Observed and projected changes in weather and

climate extremes Research Approaches •Atmospheric science (processes and modeling) •Short- and medium-range forecasts of weather extremes •Seasonal forecasts of climate extremes •Monitoring and early warning systems •Modelling impacts of weather and climate extremes •Statistical aspects of extremes Vulnerability and Impacts of Weather and Climate Extremes •Natural physical environment •Human systems eg., coastal settlements, mountain settlements, urbanization etc., •Ecosystems •Temporal and spatial dynamics of exposure and vulnerability •Observed and projected impacts in different socio-economic sectors Managing Weather and Climate Extremes •Traditional knowledge •Preparedness planning •Risk Management •Information and communication strategies •Policies and practices for adaptation to weather and climate extremes •Resilience to adverse impacts of extremes •Issues and opportunities at the local, national and international levels •Technological innovations and improved practices •Reducing societal vulnerability to weather and climate extremes •Case Studies

- **Website**:
  http://www.journals.elsevier.com/weather-and-climate-extremes/

- ## Climate Risk Management

  - **Objective:** Welcome to the online submission and editorial system for Climate Risk Management. Climate Risk Management publishes original scientific contributions, state-of-the-art reviews and reports of practical experience on all aspects of the production and use of climate and climate-related information in decision and policy making from the near- to long-term. Therefore, the scope of the journal covers: Historical, current, and future climate conditions across multiple space and time scales; Risk assessment and risk management approaches for climate-sensitive sectors such as agriculture, forestry and fire management, health, mining, natural resources management, water management, the built environment, and tourism; and Analysis of relevant institutional developments and arrangements. Topics of interest include, but are not limited to: The application of seasonal forecasting and regional climate change projections; Capacity building; Infrastructure design; Management and systematic reduction of climate-induced hazards and disasters; Protection of lives, livelihoods and property; Mitigation of environmental damage; Sustainable resource use and production; Impacts, vulnerability and adaptation at individual, community and institutional levels; Regulatory risks associated with climate change; and Climate-sensitive interactions between economic, environmental and social systems. Research papers should consider the practical application of the thesis advanced through case studies, experiments, or systematic

comparisons with existing approaches. Special issues devoted to topics of particular interest will be published on an occasional basis, and proposals for such issues are invited. Submission of multi- and interdisciplinary studies, particularly those involving economics and the social sciences, is encouraged.

- **Website**: http://ees.elsevier.com/clrm/

- ## Journal of Geography & Natural Disasters

  - **Objective:** Geography is the study of earth and its land and water features, inhabitants and phenomena. Geography has been called "the world discipline". Geography is divided into two main branches-Human geography and Physical geography. A Natural Disaster may be defined as the effect of Natural hazards which leads to human, environmental or financial losses. The journal includes a wide range of fields in its discipline to create a platform for the authors to make their contribution towards the journal and the editorial office promises a peer review process for the submitted manuscripts for the quality of publishing. Journal of Geography and Natural Disasters is an Open Access journal and aims to publish most complete and reliable source of information on the discoveries and current developments in the mode of original articles, review articles, case reports, short communications, etc. in all areas of the field and making them freely available through online without any restrictions or any other subscriptions to researchers worldwide. The journal is using Editorial Tracking System for quality in review process. Editorial Tracking is an online manuscript submission, review and tracking systems. Review processing is performed by the editorial board members of Journal of Geography and Natural Disasters or outside experts; at least two independent reviewers approval followed by editor approval is required for acceptance of any citable manuscript. Authors may submit manuscripts and track their progress through the system, hopefully to publication. Reviewers can download manuscripts and submit their opinions to the editor. Editors can manage the whole submission/review/revise/publish process.

  - **Website**: http://www.omicsgroup.org/journals/jgndhome.php

- ## Disaster Health

  - **Objective:** Disaster Health focuses on the intersection of disaster mental and behavioral health and disaster public health. As a rapid-publication, peer-reviewed scientific journal, Disaster Health prioritizes the publication of well-designed and well-executed studies, around the globe, across the complete spectrum of natural, human-generated and hybrid disasters as well as humanitarian crises and complex

emergencies (including exposure to terrorism and military conflicts). Disaster Health seeks manuscripts that contain strong research designs and demonstrate the effectiveness and efficacy of programs and interventions. Disaster Health examines the linkage between exposure to physical forces of harm in a disaster and the unique "signature" of mental and physical health impact. Disaster Health solicits articles that also focus on disaster responders, including dimensions of personal, team and organizational preparedness and execution of disaster response duties. Regarding individual response to disaster threat and impact, Disaster Health examines the full range of human response from personal mental health, wellness and resilience to psychological distress and psychopathology. At the community level, Disaster Health explores community disaster prevention, risk reduction and resilience. Across all themes, Disaster Health champions the evolution of the scientific evidence base.

- **Website**: http://www.landesbioscience.com/journals/disasterhealth/

- **International Journal of Disaster Risk Reduction (IJDRR)**

  - **Objective:** The International Journal of Disaster Risk Reduction (IJDRR) is the journal for researchers, policymakers and practitioners across diverse disciplines: Earth Sciences in its entirety; Environmental Sciences; Civil Engineering; Urban Studies; Geography; and Sociology. The International Journal of Disaster Risk Reduction (IJDRR) publishes fundamental and applied research, critical reviews, policy papers and case studies focusing on multidisciplinary research aiming to reduce the impact of natural and technological disasters. The International Journal of Disaster Risk Reduction (IJDRR) stimulates exchange of ideas and knowledge transfer on disaster research, mitigation and risk reduction at all geographic scales: local, national and international. Key topics: Multifaceted disaster and cascade disasters . The spatial and temporal monitoring, analysis and zoning of regional hazard risk. The development of disaster risk reduction strategies and techniques. Discussion and development of effective warning and educational systems for risk resilience at all levels. Climate Change and its implications in sudden disasters . The journal particularly encourages papers which approach risk from a multidisciplinary perspective.

  - **Website:**
    http://www.elsevier.com/wps/find/journaldescription.cws_home/727506/description#description

## Already listed journals in back issues:

- **Journal of Contingencies and Crisis Management**
  http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291468-5973

- Australasian Journal of Disaster and Trauma Studies
  http://www.massey.ac.nz/~trauma/welcome.shtml

- ***Jàmbá: Journal of Disaster Risk Studies*:**
  http://www.jamba.org.za/index.php/jamba/index

- **Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards:**
  http://www.tandf.co.uk/journals/journal.asp?issn=17499518&linktype=1

- **Current Opinion in Environmental Sustainability:**
  http://www.elsevier.com/wps/find/journaldescription.cws_home/718675/description#description

- **International Journal of Risk Management (IJRM):**
  http://www.serialspublications.com/journals1.asp?jid=583

- **International Journal of Safety and Security Engineering:**
  http://journals.witpress.com/jsse.asp

- **Global Environmental Change:**
  http://www.elsevier.com/wps/find/journaldescription.cws_home/30425/description#description

- **Journal of Homeland Security and Emergency Management:**
  http://www.bepress.com/jhsem/about.html

- **Journal of Emergency Management:**
  http://www.pnpco.com/pn06001.html

- **International Journal of Disaster Resilience in the Built Environment:**
  http://www.emeraldinsight.com/products/journals/journals.htm?id=IJDRBE

- **Regional Environmental Change:**
  http://www.springer.com/environment/global+change+-+climate+change/journal/10113

- **Natural Hazards Review:**
  http://ascelibrary.org/nho/

- **Journal of Risk Analysis and Crisis Response**
  http://www.atlantis-press.com/publications/jracr/index.html

- **Environmental Hazards:**
  http://www.earthscan.co.uk/?tabid=37213

- **International Journal of Climate Change Strategies and Management (IJCCSM):**
  www.emeraldinsight.com/products/journals/journals.htm?id=ijccsm

- **Journal of Natural Disaster Science:**
  http://wwwsoc.nii.ac.jp/jsnds/contents/jnds/about.html

- **Disasters:**
  http://www.wiley.com/bw/journal.asp?ref=0361-3666&site=1

- **Environmental Hazards:** http://www.earthscan.co.uk/?tabid=37213

- **Natural Hazards:**
  www.springer.com/earth+sciences+and+geography/hydrogeology/journal/11069

- **Mitigation and Adaptation Strategies for Global Environmental Change**
  http://www.springer.com/earth+sciences+and+geography/meteorology+%26+climatology/journal/11027

- **Extremes**
  http://www.springer.com/statistics/journal/10687

- **International Journal of Disaster Resilience in the Built Environment**
  http://www.disaster-resilience.salford.ac.uk/international-journal-of-disaster-resilience

- **Journal of Disaster Research**
  http://www.fujipress.jp/JDR/JDR_about.html

- **Asian Journal of Environment and Disaster Management (AJEDM)**
  http://rpsonline.com.sg/journals/101-ajedm/ajedm.html

- **International Journal of Disaster Risk Science**
  http://www.springer.com/1375

- **Disaster Advances**
  http://www.disasterjournal.net/

- **International Journal of Mass Emergencies & Disasters**
  http://www.ijmed.org/

- **International Journal of Disaster Recovery and Business Continuity**
  http://www.sersc.org/journals/IJDRBC/

- **Disaster Prevention and Management**
  http://www.emeraldinsight.com/products/journals/journals.htm?id=dpm

- **Risk Analysis**
  http://www.blackwellpublishing.com/journal.asp?ref=0272-4332&site=1

- **Journal of Risk Research**
  http://www.tandf.co.uk/journals/journal.asp?issn=13669877&linktype=1

- **International Journal of Risk Assessment and Management (IJRAM)**
  http://www.inderscience.com/browse/index.php?journalID=24

# 7. New Books

**Towards a Territorial Multi-Disaster Buildings' Resistance Certification**

**Authors:** Daniele Fabrizio Bignami
**Year:** 2014
**Publisher:** Springer
**ISBN:** 884705222X
**Content:** Disaster risk is increasing, not only in number of events, but also in incurred losses. Such increases are being driven also by the growing exposure of assets, due to the rapid urban growth, because vulnerability decreases as countries develop, but not enough to compensate. The situation will be more and more critical, due to the growth of the amount of the building stock. Thus we need new initiatives to foster upgrading of existing building and enhancement of land planning strategies. “Safe Home” scheme is aimed at increasing urban safety requirements against hazards under an advanced labeling approach. It provides a quantitative evaluation of building performance through an objective, reproducible approach, assessing risks at a land, urban and building scale. Aim of this rating system is to result in useful information to different users, like land planning decision makers, owners, purchasers, tenants or property and real estate managers.

**Extreme Natural Hazards, Disaster Risks and Societal Implications**

**Authors (Eds.):** Alik Ismail-Zadeh et al.
**Year:** 2014
**Publisher:** Cambridge University Press
**ISBN:** 1107033861
**Content:** This book presents a unique, interdisciplinary approach to disaster risk research, combining cutting-edge natural science and social science methodologies. Bringing together leading scientists, policy makers and practitioners from around the world, it presents the risks of global hazards such as volcanoes, seismic events, landslides, hurricanes, precipitation floods and space weather, and provides real-world hazard case studies from Latin America, the Caribbean, Africa, the Middle East, Asia and the Pacific region. Avoiding complex mathematics, the authors provide insight into topics such as the vulnerability of society, disaster risk reduction policy, relations between disaster policy and climate change, adaptation to hazards, and (re)insurance approaches to extreme events. This is a key resource for academic researchers and graduate students in a wide range of disciplines linked to hazard and risk studies, including geophysics, volcanology, hydrology, atmospheric science, geomorphology, oceanography and remote sensing, and for professionals and policy makers working in disaster prevention and mitigation.

**Assessment of Vulnerability to Natural Hazards: A European Perspective**

**Authors (Eds.):** Jörn Birkmann, Stefan Kienberger, David Alexander
**Year:** 2014
**Publisher:** Elsevier
**ISNB:** 0124105289
**Content:** Assessment of Vulnerability to Natural Hazards covers the vulnerability of human and environmental systems to climate change and eight natural hazards: earthquakes, floods, landslides, avalanches, forest fires, drought, coastal erosion, and heat waves. This book is an important contribution to the field, clarifying terms and investigating the nature of vulnerability to hazards in general and in various specific European contexts. In addition, this book helps improve understanding of vulnerability and gives thorough methodologies for investigating situations in which people and their environments are vulnerable to hazards. With case studies taken from across Europe, the underlying theoretical frame is transferrable to other geographical contexts, making the content relevant worldwide. Provides a framework of theory and methodology designed to help researchers and practitioners understand the phenomenon of vulnerability to natural hazards and disasters and to climate change. Contains case studies that illustrate how to apply the methodology in different ways to diverse hazards in varied settings (rural, urban, coastal, mountain, and more). Describes how to validate the results of methodology application in different situations and how to respond to the needs of diverse groups of stakeholders represented by the public and private sectors, civil society, researchers, and academics

**Heads or Tails: Financial Disaster, Risk Management and Survival Strategy in the World of Extreme Risk**

**Authors**: Evgueni Ivantsov
**Year:** 2014
**Publisher:** Gower Pub Co
**ISBN:** 1409460738
**Content:** In the wake of the global financial crisis, Heads or Tails answers the question: what changes should financial institutions undergo to ensure reliable protection against extreme risks? Recent massive failures among large and respected financial institutions, clearly demonstrate that contemporary risk management and regulation fail to provide adequate responses to the challenges set by extreme risks. Dr Evgueni Ivantsov combines analysis of the nature of extreme risk (so-called tail risk), risk management practices and practical solutions to build a robust, enterprise-wide, extreme risk management framework which includes three lines of defence, ranging from strategic to tactical, designed to help address the tail risk during different stages of its development. The author also discusses: Why modern 'sophisticated' risk management frameworks, strong capitalisation and liquidity do not prevent banks from failure in the face of systemic crisis; What it means to build an effective defence against systemic and catastrophic losses; What risk architecture should look like to ensure that extreme risk events are identified early and efficiently mitigated; How modern management practices, regulation and risk and business culture need to change

to guarantee sustainability. While the context of Dr Ivantsov's writing is financial services, the book contains an important message for specialists from any industries exposed to the extreme risks (oil/gas, energy, mining, chemical productions, transportation, etc.). Until the shortcomings of current risk management and regulation are resolved, financial services and other at risk industries will repeat the painful mistakes of the past, over and over again.

**Risk - A Multidisciplinary Introduction**

**Authors:** Claudia Klüppelberg, Daniel Straub and Isabell M. Welpe
**Year:** 2014
**Publisher:** Springer
**ISBN:** B00IPA444U
**Content:** This is a unique book addressing the integration of risk methodology from various fields. It will stimulate intellectual debate and communication across disciplines, promote better risk management practices and contribute to the development of risk management methodologies. Individual chapters explain fundamental risk models and measurement, and address risk and security issues from diverse areas such as finance and insurance, the health sciences, life sciences, engineering and information science. Integrated Risk Sciences is an emerging discipline that considers risks in different fields, aiming at a common language, and at sharing and improving methods developed in different fields. Readers should have a Bachelor degree and have taken at least one basic university course in statistics and probability. The main goal of the book is to provide basic knowledge on risk and security in a common language; the authors have taken particular care to ensure that all content can readily be understood by doctoral students and researchers across disciplines. Each chapter provides simple case studies and examples, open research questions and discussion points, and a selected bibliography inviting readers to further study.

**An Introduction to Statistical Modeling of Extreme Values**

**Authors:** Stuart Coles
**Year:** 2014
**Publisher:** Springer
**ISBN:** 1849968748
**Content:** Directly oriented towards real practical application, this book develops both the basic theoretical framework of extreme value models and the statistical inferential techniques for using these models in practice. Intended for statisticians and non-statisticians alike, the theoretical treatment is elementary, with heuristics often replacing detailed mathematical proof. Most aspects of extreme modeling techniques are covered, including historical techniques (still widely used) and contemporary techniques based on point process models. A wide range of worked examples, using genuine datasets, illustrate the various modeling procedures and a concluding chapter provides a brief introduction to a number of more advanced topics, including Bayesian inference and spatial extremes. All the computations are carried out using S-PLUS, and the corresponding datasets and functions are available via the Internet for readers to recreate examples for

themselves. An essential reference for students and researchers in statistics and disciplines such as engineering, finance and environmental science, this book will also appeal to practitioners looking for practical help in solving real problems. Stuart Coles is Reader in Statistics at the University of Bristol, UK, having previously lectured at the universities of Nottingham and Lancaster. In 1992 he was the first recipient of the Royal Statistical Society's research prize. He has published widely in the statistical literature, principally in the area of extreme value modeling.

**Extreme Financial Risks and Asset Allocation**

**Authors:** Olivier Le Courtois and Christian Walter
**Year:** 2014
**Publisher:** Imperial College Press
**ISBN:** 1783263083
**Content:** Each financial crisis calls for - by its novelty and the mechanisms it shares with preceding crises - appropriate means to analyze financial risks. In Extreme Financial Risks and Asset Allocation, the authors present in an accessible and timely manner the concepts, methods, and techniques that are essential for an understanding of these risks in an environment where asset prices are subject to sudden, rough, and unpredictable changes. These phenomena, mathematically known as "jumps", play an important role in practice. Their quantitative treatment is generally tricky and is sparsely tackled in similar books. One of the main appeals of this book lies in its approachable and concise presentation of the ad hoc mathematical tools without sacrificing the necessary rigor and precision. This book contains theories and methods which are usually found in highly technical mathematics books or in scattered, often very recent, research articles. It is a remarkable pedagogical work that makes these difficult results accessible to a large readership. Researchers, Masters and PhD students, and financial engineers alike will find this book highly useful.

**Climate Change and Flood Risk Management: Adaptation and Extreme Events at the Local Level**

**Authors:** E. Carina H. Keskitalo (eds.)
**Year:** 2014
**Publisher:** Edward Elgar Pub
**ISBN:** 1781006660
**Content:** *Climate Change and Flood Risk Management* discusses and problematises the integration of adaptation to climate change in flood risk management. The book explores adaptation to climate change in relation to flood risk events in advanced industrial states. It provides examples of how flood risk management, disaster and emergency management, and adaptation to climate change may intersect in a number of European and Canadian cases. Taken together, the studies show that integration of adaptation in flood risk and emergency management may differ strongly - not only with risk, but with a number of institutional and contextual factors, including capacities and priorities in the specific municipal cases and within a national and wider context. The book

will be relevant to researchers involved with adaptation to climate change and those involved with comprehensive planning in relation to it. It will also be of interest to academics within the fields of environmental studies and the environmentally-oriented social sciences. Contributors: J. Åkermark, E.C.H. Keskitalo, M. Massie, M.G. Reed, P. Scholten, D. Shrubsole, M. Turunen, J. Vola, G. Vulturius, T. Vuojala-Magga

**Routledge Handbook of the Economics of Climate Change Adaptation**

**Authors:** Anil Markandya, Ibon Galarraga and Elisa Sainz de Murieta
**Year:** 2014
**Publisher:** Routledge
**ISBN:** 0415633117
**Content:** Climate change is one of the greatest challenges facing human kind owing to the great uncertainty regarding future impacts, which affect all regions and many ecosystems. Many publications deal with economic issues relating to mitigation policies, but the economics of adaptation to climate change has received comparatively little attention. However, this area is critical and a central pillar of any adaptation strategy or plan and is the economic dimension, which therefore merits the increase in attention it is receiving. This book deals with the difficulties that face the economics of adaptation. Critical issues include: uncertainty; baselines; reversibility, flexibility and adaptive management; distributional impacts; discount rates and time horizons; mixing monetary and non-monetary evaluations and limits to the use of cost-benefit analysis; economy-wide impacts and cross-sectoral linkages. All of these are addressed in the book from the perspective of economics of adaptation. Other dimensions of adaptation are also included, such as the role of low- and middle-income countries, technology and the impacts of extreme events. This timely book will prove essential reading for international researchers and policy makers in the fields of natural resources, environmental economics and climate change.

**Long-Term Governance for Social-Ecological Change (Routledge Research in Environmental Politics)**

**Authors**: Bernd Siebenhüner, Marlen Arnold, Klaus Eisenack, Klaus H. Jacob (Editors)
**Year:** 2013
**Publisher:** Routledge
**ISBN:** 0415633524
**Content:** The book discusses how to tackle long-term social and ecological problems by using different environmental governance approaches to creating sustainable development. It explores opportunities and requirements for the governance of long-term problems, and examines how to achieve a lasting transformation.
When investments are made to mitigate climate change or preserve biodiversity, future generations can reap benefits from the efforts of the present generation. However, long-term social-ecological change towards sustainable development

is disrupted by the fact that the costs and benefits of action are seen by different generations. With a global focus that includes case studies from Europe, Asia, Africa, and North America, this book attempts to address the difficulty of developing and implementing effective long-term governance solutions. The authors examine what distinguishes long-term problems from other policy problems, what governance responses are available and used, and how different governance mechanisms, namely economic incentives, participation, as well as knowledge and learning, help to address them.

Combining the perspectives on the different governance approaches and featuring cases studies on national, regional and global issues, *Long-Term Governance for Social-Ecological Change* will be of interest to policy-makers, students and scholars of global environmental governance, development, sustainability, politics, economics, law and sociology.

**Measuring Vulnerability to Natural Hazards: Towards Disaster Resilient Societies (2nd Edition)**

**Authors**: Jörn Birkmann (Editor)
**Year:** 2013
**Publisher:** Springer
**ISBN:** 9280812025
**Content:** When societies attempt to plan for or rebuild in the aftermath of catastrophic natural disasters, organizers use terms such as "climate change adaptation," "building esilience," and "vulnerability and risk reduction." But what do these terms actually mean in the way of achievable goals? And how can a society accurately evaluate progress toward those goals? *Measuring Vulnerability to Natural Hazards* addresses these questions. The world is still reeling from several disasters of a magnitude rarely seen: the cascading disaster in Japan, the earthquake in Haiti, floods in Pakistan and Australia. These catastrophes underline the fact that many communities and regions are still vulnerable to extreme events and natural hazards. Additionally, creeping climate-related changes such as rising sea levels will seriously affect livelihoods in many areas. It's been estimated that more than 20 percent of the population in developing countries could face the risks of various hazards such as toxic buildups of salt in the soil, flooding, and coastal storm surges. The dynamic and complex interaction between vulnerable communities and natural hazards, climate-related and otherwise, probably increases the risk of crises and disasters in the future. *Measuring Vulnerability to Natural Hazards* combines practical examples from Africa, Asia, the Americas, and Europe with theoretical and conceptual frameworks for anticipating, preparing for, and responding to disasters. It is essential for all those interested in improving risk reduction and adaptation strategies to extreme events as well as gradual changes related to climate change and natural hazards.

**Managing Adaptation to Climate Risk: Beyond Fragmented Responses**

**Authors**: Phil O'Keefe, Geoff O'Brien (Authors)
**Year:** 2013
**Publisher:** Routledge
**ISBN:** 0415600944
**Content:** Climate change is the single largest threat to the attainment of the Millennium Development Goals (MDGs) and sustainable development. Addressing climate risk is a challenge for all. This book calls for greater collaboration between climate communities and disaster development communities. In discussing this, the book will evaluate the approaches used by each community to reduce the adverse effects of climate change. One area that offers some promise for bringing together these communities is through the concept of resilience. This term is increasingly used in each community to describe a process that embeds capacity to respond to and cope with disruptive events. This emphasizes an approach that is more focused on pre-event planning and using strategies to build resilience to hazards in an adaptation framework. The book will conclude by evaluating the scope for a holistic approach where these communities can effectively contribute to building communities that are resilient to climate driven risks.

**Managing Extreme Climate Change Risks through Insurance**

**Authors:** W. J. Wouter Botzen (Author)
**Year:** 2013
**Publisher:** Cambridge University Press
**ISBN:** 1107033276
**Content:** In recent years, the damage caused by natural disasters has increased worldwide; this trend will only continue with the impact of climate change. Despite this, the role for the most common mechanism for managing risk - insurance - has received little attention. This book considers the contribution that insurance arrangements can make to society's management of the risks of natural hazards in a changing climate. It also looks at the potential impacts of climate change on the insurance sector, and insurers' responses to climate change. The author combines theory with evidence from the rich experiences of the Netherlands together with examples from around the world. He recognises the role of the individual in preparing for disasters, as well as the difficulties individuals have in understanding and dealing with infrequent risks. Written in plain language, this book will appeal to researchers and policy-makers alike.

**Extreme Events and Natural Hazards: The Complexity Perspective (Geophysical Monograph Series)**

**Authors**: A. Surjalal Sharma, Armin Bunde, Vijay P. Dimri, Daniel N. Baker (Editors)
**Year:** 2013
**Publisher:** American Geophysical Union
**ASIN:** B00CV3VBIE
**Content:** *Extreme Events and Natural Hazards: The Complexity Perspective* examines recent developments in complexity science that provide a new approach to understanding extreme events. This understanding is critical to the development of strategies for the prediction of natural hazards and mitigation of their adverse consequences. The volume is a comprehensive collection of current developments in the understanding of extreme events. The following critical areas are highlighted: understanding extreme events, natural hazard prediction and development of mitigation strategies, recent developments in complexity science, global change and how it relates to extreme events, and policy sciences and perspective. With its overarching theme, Extreme Events and Natural Hazards will be of interest and relevance to scientists interested in nonlinear geophysics, natural hazards, atmospheric science, hydrology, oceanography, tectonics, and space weather.

**Disaster Resiliency: Interdisciplinary Perspectives (Routledge Research in Public Administration and Public Policy)**

**Authors**: Naim Kapucu, Christopher V. Hawkins, Fernando I. Rivera
**Year:** 2013
**Publisher:** Springer
**ASIN:** B00AYIK95E
**Content:** Natural disasters in recent years have brought the study of disaster resiliency to the forefront. The importance of community preparedness and sustainability has been underscored by such calamities as Hurricane Katrina in 2005 and the Japanese tsunami in 2011. Natural disasters will inevitably continue to occur, but by understanding the concept of resiliency as well as the factors that lead to it, communities can minimize their vulnerabilities and increase their resilience? In this volume, editors Naim Kapucu, Christopher V. Hawkins, and Fernando I. Rivera gather an impressive array of scholars to provide a much needed re-think to the topic disaster resiliency. Previous research on the subject has mainly focused on case studies, but this book offers a more systematic and empirical assessment of resiliency, while at the same time delving into new areas of exploration, including vulnerabilities of mobile home parks, the importance of asset mapping, and the differences between rural and urban locations. Employing a variety of statistical techniques and applying these to disasters in the United States and worldwide, this book examines resiliency through comparative methods which examine public management and policy, community

planning and development, and, on the individual level, the ways in which culture, socio-economic status, and social networks contribute to resiliency. The analyses drawn will lead to the development of strategies for community preparation, response, and recovery to natural disasters. Combining the concept of resiliency, the factors that most account for the resiliency of communities, and the various policies and government operations that can be developed to increase the sustainability of communities in face of disasters, the editors and contributors have assembled an essential resource to scholars in emergency planning, management, and policy, as well as upper-level students studying disaster management and policy.

**The Economic Impacts of Natural Disasters [Hardcover]**

**Authors**: Debarati Guha-Sapir, Indhira Santos, Alexandre Borde (Editors)
**Year:** 2013
**Publisher:** Oxford University Press
**ISBN:** 0199841934
**Content:** Since the turn of the millennium, more than one million people have been killed and 2.3 billion others have been directly affected by natural disasters around the world. In cases like the 2010 Haiti earthquake or the 2004 Indian Ocean tsunami, these disasters have time and time again wrecked large populations and national infrastructures. While recognizing that improved rescue, evacuation, and disease control are crucial to reducing the effects of natural disasters, in the final analysis, poverty remains the main risk factor determining the long-term impact of natural hazards. Furthermore, natural disasters have themselves a tremendous impact on the poorest of the poor, who are often ill-prepared to deal with natural hazards and for whom a hurricane, an earthquake, or a drought can mean a permanent submersion in poverty. *The Economic Impacts of Natural Disasters* focuses on these concerns for poverty and vulnerability. Written by a collection of esteemed scholars in disaster management and sustainable development, the report provides an overview of the general trends in natural disasters and their effects by focusing on a critical analysis of different methodologies used to assess the economic impact of natural disasters. *Economic Impacts* presents six national case studies (Bangladesh, Vietnam, India, Nicaragua, Japan and the Netherlands) and shows how household surveys and country-level macroeconomic data can analyze and quantify the economic impact of disasters. The researchers within *Economic Impacts* have created path-breaking work and have opened new avenues for thinking and debate to push forward the frontiers of knowledge on economics of natural disasters.

**Encyclopedia of Natural Hazards (Encyclopedia of Earth Sciences Series)**

**Authors**: Pedro Basabe, Tom Beer, Norm Catto , Viacheslav Gusiakov , Bill McGuire, H. Jay Melosh, Farrokh Nadim, Philipp Schmidt-Thomé, Paul Slovic , Peter T. Bobrowsky

**Year:** 2013

**Publisher:** Springer

**ISBN:** 9400702639

**Content:** Few subjects have caught the attention of the entire world as much as those dealing with natural hazards. The first decade of this new millennium provides a litany of tragic examples of various hazards that turned into disasters affecting millions of individuals around the globe. The human losses (some 225,000 people) associated with the 2004 Indian Ocean earthquake and tsunami, the economic costs (approximately 200 billion USD) of the 2011 Tohoku Japan earthquake, tsunami and reactor event, and the collective social impacts of human tragedies experienced during Hurricane Katrina in 2005 all provide repetitive reminders that we humans are temporary guests occupying a very active and angry planet. Any examples may have been cited here to stress the point that natural events on Earth may, and often do, lead to disasters and catastrophes when humans place themselves into situations of high risk. Few subjects share the true interdisciplinary dependency that characterizes the field of natural hazards. From geology and geophysics to engineering and emergency response to social psychology and economics, the study of natural hazards draws input from an impressive suite of unique and previously independent specializations. Natural hazards provide a common platform to reduce disciplinary boundaries and facilitate a beneficial synergy in the provision of timely and useful information and action on this critical subject matter. As social norms change regarding the concept of acceptable risk and human migration leads to an explosion in the number of megacities, coastal over-crowding and unmanaged habitation in precarious environments such as mountainous slopes, the vulnerability of people and their susceptibility to natural hazards increases dramatically. Coupled with the concerns of changing climates, escalating recovery costs, a growing divergence between more developed and less developed countries, the subject of natural hazards remains on the forefront of issues that affect all people, nations, and environments all the time. This treatise provides a compendium of critical, timely and very detailed information and essential facts regarding the basic attributes of natural hazards and concomitant disasters. The *Encyclopedia of Natural Hazards* effectively captures and integrates contributions from an international portfolio of almost 300 specialists whose range of expertise addresses over 330 topics pertinent to the field of natural hazards. Disciplinary barriers are overcome in this comprehensive treatment of the subject matter. Clear illustrations and numerous color images enhance the primary aim to communicate and educate. The inclusion of a series of unique “classic case study” events interspersed throughout the volume provides tangible examples linking concepts, issues, outcomes and solutions.

These case studies illustrate different but notable recent, historic and prehistoric events that have shaped the world as we now know it. They provide excellent focal points linking the remaining terms in the volume to the primary field of study. This *Encyclopedia of Natural Hazards* will remain a standard reference of choice for many years.

**Integrated Catastrophe Risk Modelling: Supporting Policy Processes (Advances in Natural and Technological Hazards Research)**

**Authors**: A. Amendola, T. Ermolieva, J. Linnerooth-bayer, R. Mechler (Editors)
**Year:** 2013
**Publisher:** Springer
**ISBN:** 9400722257
**Content:** Efficient and equitable policies for managing disaster risks and adapting to global environmental change are critically dependent on development of robust options supported by integrated modeling. The book is based on research and state-of-the art models developed at IIASA (International Institute for applied Systems Analysis) and within its cooperation network. It addresses the methodological complexities of assessing disaster risks, which call for stochastic simulation, optimization methods and economic modeling. Furthermore, it describes policy frameworks for integrated disaster risk management, including stakeholder participation facilitated by user-interactive decision-support tools. Applications and results are presented for a number of case studies at different problem scales and in different socio-economic contexts, and their implications for loss sharing policies and economic development are discussed. Among others, the book presents studies for insurance policies for earthquakes in the Tuscany region in Italy and flood risk in the Tisza river basin in Hungary. Further, it investigates the economic impact of natural disasters on development and possible financial coping strategies; and applications are shown for selected South Asian countries. The book is addressed both to researchers and to organizations involved with catastrophe risk management and risk mitigation policies.

**Risk and Uncertainty Assessment for Natural Hazards**

**Authors**: Jonathan Rougier , Steve Sparks, Lisa Hill (Editors)
**Year:** 2013
**Publisher:** Cambridge University Press
**ISBN:** 1107006198
**Content:** Assessment of risk and uncertainty is crucial for natural hazard risk management, facilitating risk communication and informing strategies to successfully mitigate our society's vulnerability to natural disasters. Written by some of the world's leading experts, this book provides a state-of-the-art overview of risk and uncertainty assessment in natural hazards. It presents the core statistical concepts using clearly defined terminology applicable across all types of natural hazards and addresses the full range of sources of uncertainty, the role of expert judgment and the practice of uncertainty elicitation. The core of

the book provides detailed coverage of all the main hazard types and concluding chapters address the wider societal context of risk management. This is an invaluable compendium for academic researchers and professionals working in the fields of natural hazards science, risk assessment and management and environmental science and will be of interest to anyone involved in natural hazards policy.

**Floods in a Changing Climate: Risk Management (Advances in Natural and Technological Hazards Research)**

**Authors**: Slobodan P. Simonović
**Year:** 2013
**Publisher:** Cambridge University
**ISBN:** 1107018749
**Content:** This book presents flood risk management as a framework for identifying and assessing climate-related risks and developing adaptation responses. Ideal for academic researchers and professionals working in hazard mitigation, hydrology, water resources engineering and environmental policy, it is one of four books on climate-related flood disaster management theory and practice.

**Community Disaster Vulnerability: Theory, Research, and Practice**

**Authors**: Michael J. Zakour, David F. Gillespie
**Year:** 2013
**Publisher:** Springer
**ISBN:** 978-1-4614-5736-7
**Content:** *Community Disaster Vulnerability* offers a deeply nuanced understanding of how disasters affect at-risk populations such as the poor and the elderly, beginning with factors that contribute to disaster risk. Its focus on the complex layers of disruption caused by disasters links research findings across disciplines and levels of intervention. Concepts and models are included that systematically explain the sociopolitical aspects of disasters and identify relevant interventions for bolstering community resilience, providing social support, and distributing post-disaster resources. These practical applications of the theory propose methods of proactive planning for and responses to natural, manmade, or hybrid crises

**Education and Natural Disasters**

**Authors**: David Smawfield (Editor)
**Year:** 2013
**Publisher:** Continuum
**ISBN:** 1441199918
**Content:** What is the relationship between education and natural disasters? Can education play a role in ameliorating and mitigating them, preparing people in how to respond, and even helping to prevent them? If so, how? Drawing on

research carried out in a number of different countries, including Australia, China, India, Japan, the UK and the USA, the contributors consider the role of education in relation to natural disasters. The case studies expand conceptual and empirical understandings of the understudied relationship between education and natural disasters, uncover the potential and the limitations of education for mitigating, responding to, and potentially preventing, natural disasters. The contributors also consider the extent to which so-called natural disasters, such as mudslides caused by deforestation and flooding areas built on known flood plains, are linked to human behaviour and how education can impact on these.

**Natural Disasters: Prevention, Risk Factors and Management**

**Authors**: Biljana Raskovic, Svetomir Mrdja (Editors)
**Year:** 2013
**Publisher:** Nova Science Pub Inc
**ISBN:** 1622576764
**Content:** In this book, the authors present current research in the study of the prevention, risk factors and management of natural disasters. Topics discussed include typhoon and hurricane prediction; point-of-care testing in complex emergency and disaster resilience; management strategies for children during natural disasters; torrential floods prevention; information technology and simulation in disaster management; quantile approach application to seismic risk assessment; the increase of natural disasters as a result of global climate change; coping with disaster trauma; paleo-landslides in central Serbia; how the elderly cope during disasters and crises; and government involvement in Connecticut during Tropical Storm Irene.

**Environmental Hazards: Assessing Risk and Reducing Disaster**

**Authors**: Keith Smith (Author)
**Year:** 2013
**Publisher:** Routledge (6th Edition)
**ISBN:** 0415681057
**Content:** The much expanded sixth edition of *Environmental Hazards* provides a fully up-to-date overview of all the extreme events that threaten people and what they value in the 21st century. It integrates cutting-edge material from the physical and social sciences to illustrate how natural and human systems interact to place communities of all sizes, and at all stages of economic development, at risk. It also explains in detail the various measures available to reduce the ongoing losses to life and property. Part One of this established textbook defines basic concepts of hazard, risk, vulnerability and disaster. Attention is given to the evolution of theory, to the scales and patterns of disaster impact and to the optimum management strategies needed to minimize the future impact of damaging events. Part Two employs a consistent chapter structure to demonstrate how individual hazards, such as earthquakes, severe storms, floods and droughts, plus biophysical and technological processes, create distinctive impacts and challenges throughout the world. The ways in which different

societies can make positive responses to these threats are placed firmly in the context of sustainable development and global environmental change.

**Flash Floods: Forecasting and Warning**

**Authors**: Kevin Sene (Author)
**Year:** 2013
**Publisher:** Springer
**ISBN:** 940075163X
**Content:** The book describes flash floods - one of the most devastating of natural hazards, which develop in a period of minutes to a few hours. Floods of this type are often characterised by fast flowing deep water and a high debris content which - combined with the short lead time available for warnings - add to the risk to people and property. The main cause of flash flooding is usually heavy rainfall; other causes can include the break- up of ice jams, dam breaches, and the failure of flood defenses and levees. The volume discusses the increasing use of meteorological observation and forecasting techniques to extend the lead time available for warning, combined with hydrological models for the river response. It also presents probabilistic techniques and some current areas of research which include the use of weather radar and satellite data in improving meteorological forecasts, the development of improved forecasting and observation techniques for mountainous regions, and the use of distributed hydrological models specifically adapted for flash flood modelling. This book reviews recent developments in this active research area, with a focus on events caused by heavy rainfall (including debris flows and landslides), but also considering other types of flash flooding, such as that caused by ice jams and dam and levee breaches. The topics covered include meteorological forecasting and monitoring techniques, rainfall-runoff and river modelling, approaches to issuing flood warnings, and some of the societal and behavioural aspects of providing an effective emergency response. A number of international examples of the application of these techniques are also provided. The book is potentially useful on civil engineering, water resources, meteorology and hydrology courses (and for post graduate studies) but is primarily intended as a review of the topic for a wider audience.

## List of already listed new books in back issues:

**The Spatial Dimension of Risk: How Geography Shapes the Emergence of Riskscapes (Earthscan Risk in Society)**
**Authors**: Detlef Müller-Mahn (Editor)
**Year:** 2012
**Publisher:** Routledge
**ISBN:** 1849710856

**Unraveling Environmental Disasters**
**Authors**: Daniel Vallero, Trevor Letcher (Editor)
**Year:** 2012
**Publisher:** Elsevier
**ISBN:** 0123970261

**Disaster Resiliency: Interdisciplinary Perspectives (Routledge Research in Public Administration and Public Policy)**
**Authors**: Naim Kapucu, Christopher V. Hawkins, Fernando I. Rivera (Editors)
**Year:** 2012
**Publisher:** Routledge
**ISBN:** 0415626897

**Handbook of Hazards and Disaster Risk Reduction**
**Authors**: Ben Wisner, JC. Gaillard, and Ilan Kelman (Editors)
**Year:** 2012
**Publisher:** Routledge
**ISBN:** 0415590655

**Industrial Disasters, Toxic Waste, and Community Impact: Health Effects and Environmental Justice Struggles Around the Globe**
**Authors**: Francis O. Adeola (Author)
**Year:** 2012
**Publisher:** Lexington Books
**ISBN:** 0739147463

**Climate Change and Disaster Risk Management**
**Authors**: Walter Leal Filho (Editor)
**Year:** 2012
**Publisher:** Springer
**ISBN:** 3642311091

**Heavy-Tailed Distributions in Disaster Analysis (Advances in Natural and Technological Hazards Research)**

**Authors**: V. Pisarenko, M. Rodkin (Authors)
**Year:** 2012
**Publisher:** Springer
**ISBN:** 9400732856

**Integrated Risk Governance: Science Plan and Case Studies of Large Scale Disasters**

**Authors**: Peijun Shi, Carlo Jaeger, Qian Ye (Editor)
**Year:** 2012
**Publisher:** Springer
**ISBN:** 3642316409

**Risk Assessment Tools, Techniques, and Their Applications**

**Authors**: Lee T. Ostrom and Cheryl Wilhelmsen (Editor)
**Year:** 2012
**Publisher:** Wiley
**ISBN:** 047089203X

**Disaster Management: International Lessons in Risk Reduction, Response and Recovery**

**Authors**: Alejandro Lopez-Carresi (Author) and Ben Wisner (Editor)
**Year:** 2012
**Publisher:** Earthscan
**ISBN:** 1849713472

**Encyclopedia of Natural hazards (Encyclopedia of Earth Sciences Series)**

**Authors** : Peter Bobrowsky (Editor)
**Year:** 2012
**Publisher:** Springer
**ISBN: 9400702639**

**Disaster Risk Management: Conflict and Cooperation**

**Authors:** S. Ranjan Sensarma and Atanu Sarkar (Editors)
**Year:** 2012
**Publisher:** Concept Publishing Company
**ISBN:** 8180698491

**Extreme Environmental Events: Complexity in Forecasting and Early Warning**
**Authors**: Robert A. Meyers (Editor)
**Year:** 2011
**Publisher:** Springer
**ISBN:** 978-1441976963

**Dynamics of Disaster: Lessons on Risk, Response and Recovery**
**Authors**: Rachel A Dowty et al. (Editor)
**Year:** 2011
**Publisher:** Earthsscan Pulbications Ltd
**ISBN:** 978-1849711432

**Calculating Catastrophe**
**Authors**: Gordon Woo
**Year:** 2011
**Publisher:** Imperial College Press
**ISBN:** 978-1848167384

**Global Aerospace Monitoring and Disaster Management**
**Authors**: Anatoly N., Menshikov, Valery A., Urlichich, Yuri M.
**Year:** 2011
**Publisher:** Springer
**ISBN:** 978-3-7091-0809-3

**The Wenchuan Earthquake of 2008**
**Authors**: Chen, Yong, Booth, David C.
**Year:** 2011
**Publisher:** Springer
**ISBN:** 978-3-642-21158-4

**Coping with Climate Change: Principles and Asian Context**
**Authors**: Chandrappa, Ramesha, Gupta, Sushil, Kulshrestha, Umesh Chandra
**Year:** 2011
**Publisher:** Springer
**ISBN:** 978-3-642-19673-7

**In Extremes: Disruptive Events and Trends in Climate and Hydrology**
**Authors**: V. Pisarenko, M. Rodkin
**Year:** 2011
**Publisher:** Springer
**ISBN:** 978-3-642-14862-0

**Post-Disaster Reconstruction of the Built Environment: Rebuilding for Resilience**
**Authors**: Dilanthi Amaratunga, Richard Haigh
**Year:** 2011
**Publisher:** Wiley
**ISBN:** 978-1-4443-3356-5

**Environmental Hazards and Disasters: Contexts, Perspectives and Management**
**Authors**: Bimal Kanti Paul
**Year:** 2011
**Publisher:** John Wiley and Sons Ltd
**ISBN:** 9780470660027

**Crisis Information Management: Communication and Technologies**
**Authors**: Christine Hagar
**Year:** 2011
**Publisher:** Woodhead Publishing Ltd
**ISBN:** 9781843346470

**The Causes and Behavioral Consequences of Disasters**
**Authors**:
**Year:** 2011
**Publisher:** Springer
**ISBN:** 9781461403166

**Forecasting, Warning and Responding to Transnational Risks**
**Authors**: Chiara De Franco, Christoph O. Meyer
**Year:** 2011
**Publisher:** Palgrave Macmillan
**ISBN:** 9780230297845

**Disaster Education**
**Authors**: Rajib Shaw, Koichi Shiwaku, Yukiko Takeuchi
**Year:** 2011
**Publisher:** Emerald Group Publishing Limited
**ISBN:** 9780857247377

**The Economic Impacts of Natural Disasters**
**Authors**: Debarati Guha-Sapir, Indhira Santos, Alexandre Borde
**Year:** 2011
**Publisher:** Earthscan Ltd
**ISBN:** 9781844077694

**Heavy-Tailed Distributions in Disaster Analysis**
**Authors:** V. Pisarenko, M. Rodkin
**Year:** 2010
**Publisher:** Springer, New York
**ISBN:** 978-9048191703

**When the Planet Rages: Natural Disasters, Global Warming and the Future of the Earth**
**Authors:** Charles Offices, Jake Page
**Year:** 2010
**Publisher:** Oxford University Press
**ISBN:** 978-0195377019

**Early Warning for Geological Disasters**
**Authors:** Friedemann Wenzel, Jochen Zschau (editor)
**Year:** 2010
**Publisher:** Springer, Berlin
**ISBN:** 978-3642122323

**Natural Hazards, UnNatural Disasters**
**Authors:** World Bank, United Nations
**Year:** 2010
**Publisher:** Word Bank
**ASIN:** 978-0739124161

**Mitigation of Natural Hazards and Disasters: International Perspectives**
**Authors:** C. Emdad Haque (editor)
**Year:** 2010
**Publisher:** Springer
**ISBN-10:** 9048167965

**Systems Approach to Management of Disasters: Methods and Applications**
**Authors:** Slobodan P. Simonovi
**Year:** 2010
**Publisher:** Wiley
**ISBN-10:** 978-0739124161

**Extreme Events in Nature and Society**
Authors: Sergio Albeverio, Volker Jentsch, Holger Kantz
Year: 2010
Publisher: Springer
ISBN: 3642066798

**Natural and Anthropogenic Disasters: Vulnerability, Preparedness and Mitigation**
**Authors:** M.K. Jha (editor)
**Year:** 2010
**Publisher:** Springer
**ISBN:** 9048124972

**Natural Disasters as Interactive Components of Global-Ecodynamics**
**Authors:** Kirill Ya Kondratyev, Vladimir F. Krapivin, Costas A. Varostos
**Year:** 2010
**Publisher:** Springer
**ISBN:** 3642068448

**Catalogue of Risks: Natural, Technical, Social and Health Risks**
**Authors**: Dirk Proske
**Year: 2010**
**Publisher: Springer**
**ISBN:** 3642098487

**In Extremis: Disruptive Events and Trends in Climate and Hydrology**
**Authors:** Jürgen Kropp, Hans-Joachim Schellnhuber (editor)
**Year:** 2010
**Publisher:** Springer
**ISBN:** 364214862X

**Natural Disasters and Sustainable Development**

**Authors**: Riccardo Casale, Claudio Margottini (editor)
**Year:** 2010
**Publisher:** Springer
**ISBN:** 3642075800

**Assessing Vulnerability to Global Environmental Change: Making Research Useful for Adaptation Decision Making and Policy [Paperback]**

**Authors**: Anthony G. Patt et al. (editor)
**Year:** 2010
**Publisher:** Springer
**ISBN:** 1849711542

## 8. Selected Article References[1]

Rockström, J., Steffen, W., Noone, K., Persson, A., Chapin III, F.S., Lambin, E., Lenton, T.M., Scheffer, M., Folke, C., Schellnhuber, H.J., Nykvist, B., de Wit, C.A., Hughes, T., van der Leeuw, S., Rodhe, H., Sörlin, S., Snyder, P.K., Costanza, R., Svedin, U., alkenmark, M., Karlberg, L., Corell, R.W., Fabry, V.J., Hansen, J., Walker, B., Liverman, D., Richardson, K., Crutzen, P., Foley, J. Planetary boundaries: Exploring the safe operating space for humanity (2009) Ecology and Society, 14 (2)

Folke, C., Carpenter, S.R., Walker, B., Scheffer, M., Chapin, T., Rockström, J. Resilience thinking: Integrating resilience, adaptability and transformability (2010) Ecology and Society, 15 (4).

Pike, A., Dawley, S., Tomaney, J. Resilience, adaptation and adaptability (2010) Cambridge Journal of Regions, Economy and Society, 3 (1), pp. 59-70.

Walker, J., Cooper, M. Genealogies of resilience: From systems ecology to the political economy of crisis adaptation (2011) Security Dialogue, 42 (2), pp. 143-160.

Miller, F., Osbahr, H., Boyd, E., Thomalla, F., Bharwani, S., Ziervogel, G., Walker, B., Birkmann, J., Van der Leeuw, S., Rockström, J., Hinkel, J., Downing, T., Folke, C., Nelson, D. Resilience and vulnerability: Complementary or conflicting concepts? (2010) Ecology and Society, 15 (3).

Norris, F.H., Tracy, M., Galea, S. Looking for resilience: Understanding the longitudinal trajectories of responses to stress (2009) Social Science and Medicine, 68 (12), pp. 2190-2198.

Engle, N.L. Adaptive capacity and its assessment (2011) Global Environmental Change, 21 (2), pp. 647-656.

Gaillard, J.C. Vulnerability, capacity and resilience: Perspectives for climate and development policy (2010) Journal of International Development, 22 (2), pp. 218-232.

Young, O.R. Institutional dynamics: Resilience, vulnerability and adaptation in environmental and resource regimes (2010) Global Environmental Change, 20 (3), pp. 378-385.

Zhou, H., Wang, J., Wan, J., Jia, H. Resilience to natural hazards: A geographic perspective (2010) Natural Hazards, 53 (1), pp. 21-41.

[1] Selected articles are based on citation counts within Scopus (a bibliographic database containing abstracts and citations for peer-reviewed academic journal articles) starting from 2009 to 2014. For this issue only the top 20 cited papers are selected which had a focus on resilience against disasters. Comments about additional focus on specific aspects of integrated disaster risk management in future newsletters very much welcomed.

Cimellaro, G.P., Reinhorn, A.M., Bruneau, M. Framework for analytical quantification of disaster resilience (2010) Engineering Structures, 32 (11), pp. 3639-3649.

Magis, K. Community resilience: An indicator of social sustainability (2010) Society and Natural Resources, 23 (5), pp. 401-416.

Madni, A.M., Jackson, S. Towards a conceptual framework for resilience engineering (2009) IEEE Systems Journal, 3 (2), pp. 181-191.

Hudson, R. Resilient regions in an uncertain world: Wishful thinking or a practical reality? (2010) Cambridge Journal of Regions, Economy and Society, 3 (1), pp. 11-25.

Cannon, T., Müller-Mahn, D. Vulnerability, resilience and development discourses in context of climate change (2010) Natural Hazards, 55 (3), pp. 621-635.

Aven, T. On Some Recent Definitions and Analysis Frameworks for Risk, Vulnerability, and Resilience (2011) Risk Analysis, 31 (4), pp. 515-522.

Hassink, R. Regional resilience: A promising concept to explain differences in regional economic adaptability? (2010) Cambridge Journal of Regions, Economy and Society, 3 (1), pp. 45-58.

Bottrell, D. Understanding 'marginal' perspectives: Towards a social theory of resilience (2009) Qualitative Social Work, 8 (3), pp. 321-339.

Carpenter, S.R., Folke, C., Scheffer, M., Westley, F. Resilience: Accounting for the noncomputable (2009) Ecology and Society, 14 (1).

Martin, R. Regional economic resilience, hysteresis and recessionary shocks (2012) Journal of Economic Geography, 12 (1), art. no. lbr019, pp. 1-32.

# 9. Miscellaneous

## Other Newsletters:

- **IISD Reporting Services:** Free Newsletters and lists for environment and sustainable development issues.
  Website: http://www.iisd.ca/email/subscribe.htm

- **The International Emergency Management Society Newsletter (TIEMS)**
  Website: http://www.tiems.info/

- **Natural Hazards Group Newsletters:**
  Website: http://www.agu.org/focus_group/NH/about/newsletters/

- **Disaster Research:** DISASTER RESEARCH (DR) is a moderated newsletter for creators and users of information about hazards and disasters.
  Website: http://www.colorado.edu/hazards/dr/currentdr.html

- **Emergency Manager's Weekly Report:**
  Website:
  http://www.6pinternational.com/news.php?category=Emergency%20Managers%20Weekly%20Report&

- **KatNet-Newsletter:** (mostly in German language)
  Website: http://www.katastrophennetz.de/

- **EM-DAT: International Disaster Database Newsletter (CRED)**
  Website: http://www.emdat.be/publications

- **DSCRN: Disaster and Social Crisis Research Network Newsletter**
  Website: http://www.dscrn.org/cms/index.php?page=newsletter

- **International Institute for Sustainable Development Newsletter: IISD Reporting Services.**
  Website: Climate Change: http://climate-l.iisd.org/about-the-climate-l-mailing-list/
  General Information: http://www.iisd.ca/

- **Society of Risk Analysis Newsletter:**
  Website: http://www.sra.org/newsletter.php

- **ULC Institute for Risk and Disaster Reduction Newsletter:**
  Website: http://www.ucl.ac.uk/rdr/irdr/newsletter/

## Newsletter Committee:

**Head:**
**Stefan Hochrainer-Stigler**
IIASA- International Institute for Applied Systems Analysis, Laxenburg, Austria
Email: hochrain@iiasa.ac.at

**Muneta Yokomatsu**
Research Center for Disaster Reduction Systems,
Disaster Prevention Research Institute, Kyoto University
E-mail: yoko@drs.dpri.kyoto-u.ac.jp

**Ana Maria Cruz**
Consultant, Natech Risk Management
Bordeaux, France
E-mail: cruzanamaria2000@yahoo.com

**Wei Xu**
Beijing Normal University ( BNU)
Beijing, China
E-mail: xuwei@bnu.edu.cn

**Matthias J.M. Dorfstaetter**
Emergency Management Risk Planning,
State Government, Australia
E-mail: matthias.dorfstaetter@hotmail.com

# IDRiM Society

**Secretariat**
**Kyoto University**
**Gokasyo Uji, Kyoto, Japan**
**Tel: +81-774-38-4651**
**Fax: +81-774-38-4044**
**Email: society@idrim.org**