



京都大学防災研究所
Disaster Prevention Research Institute
Kyoto University

特定研究集会

2025TM-01

The 7th Global Summit of GADRI and 10th Anniversary Symposium of GADRI

第7回世界防災研究所連合サミットおよび GADRI10周年記念シンポジウム

May, 2026

令和 8 年 5 月

Coordinator Subhajyoti Samaddar

研究代表者 サブハジヨヨティ サマダール

特定研究集会（課題番号：2025TM-01）

集会名：第7回世界防災研究所連合サミットおよびGADRI 10周年記念シンポジウム
主催者名：※共催の場合
研究代表者：Subhajyoti Samaddar
所属機関名：京都大学防災研究所気候変動適応研究センター
所内担当者名：
開催日：令和7年7月20日～23日
開催場所：コロラド州立大学
参加者数：89名（所外16名、所内73名）

研究及び教育への波及効果について

研究面では、単なる学際的連携に留まらず、研究の設計段階から実務者や政策立案者が参画する「共創型研究」のモデルが提示されたことにより、科学的探究と社会課題を同時に達成する実効性の高い新しい研究手法の普及が期待される。また、教育面では、研究者や政策立案者が地域コミュニティや現地のステークホルダーを対話や合意形成を図るためのスキルの重要性が明確化されたことにより、多様な視点を防災教育に組み込む重要性が再認識され、これは公平性の高い社会を支える人材育成の指針となる。また、若手研究者にとって国際的なネットワーク構築の場となった事により、国連システムや地域機関との連携を意識したグローバルなキャリア形成が促進された。

研究集会報告

(1) 目的

GADRI は発足より 2025 年で 10 年を迎えた。現在までの進捗、成果を確認し、今後の活動の方向性を討議する記念シンポジウムと「災害研究と利害関係者との融合による回復力の向上（Converging Disaster Research and Stakeholder-Engagement for Resilience）」とテーマを掲げ、第7回 GADRI サミットを開催した。本サミットでは、今後 10 年を見据え、防災科学技術の進展に GADRI がどのような貢献をなしていくのか議論を進める事を目的とした。

(2) 成果のまとめ

10 名の基調講演、7 つのパネルディスカッションに加え、ポスター発表と口頭発表が行われた本サミットには、16 ヶ国より 88 名が参加した。本会議のテーマである、「Convergence」は単なる学際的協力を超え、より深いレベルでの統合の必要性を示すものとして議論が進められた。社会課題の解決に置いて科学的探究と社会的課題への対応には大きな隔たりがあった。その解決方法として、研究の設計・概念化の段階から実務者、政策立案者、地域コミュニティなどのステークホルダーを巻き込むことの重要性が確認された。さらに、科学的根拠に基づく意思決定やデータ共有の透明性を確保することにより、社会全体のレジリエンス向上を推進していく戦略が議論された。また、先住民の知識の活用や分野横断的な協力、さらに AI などの先端技術を用いた「より良い復興(Built Back Better)」の重要性が強調された。またこれらの提言を実効性のある政策へとつなげ、格差のない防災体制を構築していくことの重要性を強調した会議となった。また、10 周年イベントでは、GADRI の歩みを振り返るとともに、防災研究におけるアライアンスの役割とは何か、と問いかけがあり、効果的な

防災研究を進めるために、組織的な課題と創造的アプローチの共有、より広範な国連システム及び地域機関との連携強化、リスクエンゲージメントの促進要因の認識と支援、そして 2030 年以降の持続可能な開発枠組みへの防災研究の統合などが議論の中心となった。

(3) プログラム

別添

(4) 研究成果の公表

G A D R I ウェブサイト・第 7 回 G A D R I サミットプロシーディング他



10th Anniversary of GADRI

20 July 2025

**Colorado State University
Fort Collins, USA**

10th Year Anniversary of GADRI – A Decade of Excellence in Collaboration

Visions and Milestones – Missions calling us for the second decade

Background:

1st Global Summit, initiated by the Disaster Prevention Research Institute (DPRI), Kyoto University was organized at the Uji Campus, in November 2011. The March 2011 East Japan mega-Earthquake and Tsunami was the precursor for the event which prompted the science and disaster research communities to reassess the existing practices and management for disaster risk

reduction, disaster prevention, and preparedness planning. As a major recommendation of the Summit, it was agreed to form a forum of disaster research institutes fostered by DPRI, Kyoto University. During the 2nd Global Summit this recommendation was adopted and the Global Alliance of Disaster Research Institutes (GADRI) was established in March 2015.

10 Years of International Cooperation in Disaster Risk Reduction

It is a remarkable feat to mark the 10th Anniversary of the Global Alliance of Disaster Research Institutes (GADRI) since its inception in March 2015, soon after the SFDRR 2015-2030.

To date, GADRI boasts of 218 members from 57 economies, closely engaged in its activities, and continually updating with information on research progress and achievements to emphasize the importance of interdisciplinary research approaches to address in-situ methods to disaster prevention and preparedness and research gaps.

On this milestone occasion of GADRI anniversary, it also paves an opportunity to look at past research progress, review what has been done, and how it has evolved in time with the current DRR research and practices.

- Was GADRI built on the right foundation?
- Did we set the right objectives?
- How far have we moved in supporting the SFDRR 2015-2030?

The answer to some of the questions is an “overwhelming yes”;

and, yes, we are supporting and contributing to the Sendai Framework and other global stakeholders, too.

When GADRI was formed we knew that we were in the right path to work on the disaster risk and reduction and disaster resilience. The scientific knowledge, and tools are there to make the right decision. However, it remains a challenge as how to bring forward that scientific knowledge to the forefront and convince the practitioners and decision-makers to utilize it in today’s disasters and mitigation strategies.

GADRI Community continues to significantly contribute to the Sendai Framework. Through our biennial questionnaire survey, we were able to stock take of progress and achievements of our science community in their research towards disaster risk reduction and disaster mitigation in national and local levels.

This occasion of the 10th Anniversary of GADRI, allows us to, further reflect on proven strengths and gaps in our research, future directions, and ways to enhance and strengthen community awareness and practice to disaster resilience.

Purpose of the 10th Anniversary Celebration of GADRI

The purpose of the 10th Anniversary of GADRI celebration will be to evaluate achievements and current status; and to discuss a roadmap for the coming decade.

- **Achievements and Current Status**

How much have we contributed to the implementation of the Science and Technology Roadmap to support the SFDRR 2015-2030

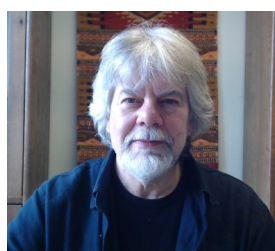
⇒ Past – milestones and inputs

⇒ Remaining five-years of the Sendai Framework

- **A Roadmap for the next decade of GADRI**

- What are our collective contributions to the science and technology community in the coming years and beyond?
- Future path for the Sendai Framework from an academic perspective?

Keynote Speech — What does it mean to alliance disaster research, and what next?



Andrew Collins

Emeritus Professor, Disaster and Development, Northumbria University, United Kingdom

Andrew Collins is Emeritus Professor of Disaster and Development, Northumbria University, United Kingdom. He supports learning and practices of survivability and well-being for disaster risk reduction, sustainable development, health ecology and environmental conservation. He’s led or advised higher education teaching and research programmes, partnership and alliance building and collective engagement aiming to apply knowledge that

underpins these areas. His earlier research on environmental health risk in conflict and displacement context, helped expand the evidence base for addressing wider disaster and development processes. Common to ongoing worldwide challenges, he is currently applying this critical learning within more recent local area roles in Scotland’s Inner Hebrides.

Brief Abstract: The talk reflects on what it has meant to alliance disaster research based on it being both cause and effect of knowledge that improves understanding of slow and rapid onset emergencies. It then suggests that alliancing remains a key opportunity to advance disaster research capacity and influence much more.

PROGRAM

Celebration of the 10th Anniversary of GADRI

Longs Peak, Lory Student Center, Colorado State University, Fort Collins, USA

Sunday, 20 July 2025 from 13:00H

13:00		Registration
13:15-13:45		Opening Greetings Chair: Roger Baars, GSGES, Kyoto University
		Greetings Tomoharu Hori, Director, Disaster Prevention Research Institute (DPRI), Kyoto University, Japan
		Greetings John van de Lindt, Co-Director, Center for Risk-Based Community Resilience Planning, Colorado State University, Fort Collins, USA
		Reflections on GADRI Paul Kovacs, Chair, Board of Directors of GADRI; Executive Director, Institute for Catastrophic Loss Reduction (ICLR), Western University, Canada
		GADRI Milestones—10 Years of International Collaboration in Disaster Risk Reduction Hirokazu Tatano, Secretary-General, GADRI; and Professor, DPRI, Kyoto University, Japan
13:45—15:00		First Decade of GADRI: Achievements and Our Collective Contributions to the Science and Technology Community — Chair: Norio Maki and Kaushal Keraminiyage
		Keynote Speech
		What does it mean to alliance disaster research, and what next? Andrew Collins, First Chair of Board of Directors of GADRI; Department of Geography / Disaster and Development Network (DDN), Northumbria University, Newcastle, United Kingdom
		Panel Discussion Session I: (5-8 minutes presentations)
		Progress of DRR DX Science and Technology Kaoru Takara, President, National Research Institute for Earth Science and Disaster Resilience (NIED), Tsukuba, Japan
		Gretchen Kalonji, International Research Center for Big Data for SDGs (CBAS), Beijing, China
		Yuichi Ono, International Research Institute for Disaster Science (IRIDeS), Tohoku University, Japan
		Summary report
		Group Photo
15:00-15:15		Coffee Break
15:15-16:30		Panel discussion II: Roadmap for the Next Decade of GADRI and Contributions to the Sendai Framework Chair: Tetsuya Takemi, and Nobuhito Mori, DPRI, Kyoto University
(5-8 minutes presentations)		
		Results of the Questionnaire Survey Genta Nakano, DPRI, Kyoto University, Japan
		Virginia Murray, Head, Global Disaster Risk Reduction, UK Health and Security Agency, UK
		Contributions from the African Alliance of Disaster Research Institutes (AADRI) Desmond Manatsa, President, AADRI; and Executive Dean, Faculty of Science and Engineering; Bindura University of Science, Zimbabwe
		Paul Kovacs, Chair, Board of Directors of GADRI; and Executive Director, ICLR, Canada
		Activities of South Asia Alliance of Disaster Research Institutes (SAADRI) Mahua Mukherjee, Head, Department of Architecture and Planning, Indian Institute of Technology (IIT), Roorkee, India
		Norio Maki, DPRI, Kyoto University, Japan
		Summary Report
16:30-17:00		Wrap-up and Closing Chair: Andrew Collins Paul Kovacs, Norio Maki, Nobuhito Mori and Yuichi Ono Closing Remarks—Hirokazu Tatano



GADRI Secretariat

Disaster Prevention Research Institute (DPRI), Kyoto University
Gokasho, Uji-shi, Kyoto 611-011, JAPAN

E-mail: secretariat-gadri@dpri.kyoto-u.ac.jp

Tel: +81-774-38-4651

 7th Global Summit of GADRI: Converging Disaster Research and Stakeholder-Engagement for Resilience; and the 4th General Assembly of GADRI Center of Excellence for Risk-Based Community Resilience Planning, Colorado State University, Fort Collins, Colorado, USA from 21 to 23 July 2025																																																																																																																																																																																																																																																																																						
Day 1 : Monday, 21 July 2025MC: Prof. John van de Lindt and Ms. Connie Hale										Day 2 : Tuesday, 22 July 2025MC: Dr. Genta Nakano										Day 3 : Wednesday, 23 July 2025MC: Dr. Toshio Fujimi																																																																																																																																																																																																																																																																		
9:00	RegistrationVenue: Ballroom C										Group discussion session summary of outcomes and recommendations Panel Discussion Session I - Progress and challenges for the implementation of the Sendai Framework (in several or more countries) Chairs: Prof. Yuki Matsushi and Prof. Gretchen Kalonji Invited speakers from each group to summarize group discussion session outcomes within 5-8 minutes. - Presentations by each group member - Comments by the panelists - Discussion/Comments by the audience Venue: Ballroom C										Group discussion session summary of outcomes and recommendations Panel Discussion Session II - A convergence approach – focusing on disciplines and methodologies – to facilitate implementation of research for improving resilience of communities. Chairs: Prof. Nobuhito Mori and Prof. Virginia Murray Invited speakers from each group to summarize group discussion session outcomes within 5-8 minutes. - Presentations by each group member - Comments by the panelists - Discussion/Comments by the audience Venue: Ballroom C																																																																																																																																																																																																																																																																	
	Group Photograph																																																																																																																																																																																																																																																																																					
11:00-11:30	Coffee break - Ballroom D									10:30-11:00	Coffee break - Ballroom D									10:30-11:00	Coffee break - Ballroom D																																																																																																																																																																																																																																																																	
	Plenary Session I Venue: Ballroom C	Convergence approaches in research and implementation (including methodological convergence such as combining field studies with experimental tests or numerical analysis and extending to disciplinary convergence which brings together key disciplines to collaborate to solve a problem that cannot be solved by one discipline alone.) Chair: Prof.Hirokazu Tatano; and Prof. Kaoru Takara									Plenary Session II Venue: Ballroom C	Engagement, partnerships, communication, and resulting policy (underscoring the fact that stakeholder engagement is critical to implementing research and turning it into policy to ensure communities don't just survive but thrive.) Chair: Dr. Yuki Matsuoka and Prof. Michinori Hatayama Catalyzing Resilience: Strengthening Global DRR Education & Action through Synergy, Prof. Saini Yang, Executive Director, International Center for Collaborative Research on Disaster Risk Reduction (ICCR-DRR), Beijing Normal University, China (ONLINE)										Oral Presentations Advancing Global Disaster Risk Reduction and Resilience - Morning																																																																																																																																																																																																																																																																
	Keynote 1	Advancing Community and Regional Resilience: Addressing Infrastructure Impacts on Societal Recovery and Stability, Prof. Therese (Terri) McAllister, Deputy Chief, Materials and Structural Systems Division, National Institute of Standards and Technology (NIST), USA									Keynote 3	Catalyzing Resilience: Strengthening Global DRR Education & Action through Synergy, Prof. Saini Yang, Executive Director, International Center for Collaborative Research on Disaster Risk Reduction (ICCR-DRR), Beijing Normal University, China (ONLINE)										Session A - Chair: Prof. Yoshihiro Ito, DPRI, Kyoto University, Japan; and Prof. Desmond Manatsa Venue: Ballroom C - International Frameworks and Local Realities: Land Use Planning and Disaster Risk Management in Rwanda, Shelley McMullen, University of Colorado Denver, USA - Enhancing Urban Resilience: Lessons learned from three pilot cities in disaster preparedness and response, Katarina Holla, University of Zilina, Slovakia - A data-driven risk-based design to support community resilience objectives through high-performing buildings, Mohsen Zaker Esteghamati, Utah State University, USA				Session B - Chair: Prof. Amit Dhiman, Head, Center of Excellence in Disaster Mitigation and Management (CoEDMM), Indian Institute of Technology (IIT), Roorkee, India; and Prof. Gretchen Kalonji Venue: Longs Peak Room - Innovative Approaches to Disaster Awareness and Risk Reduction: The Role of Art, Technology, and Community Engagement in Chile, Rodrigo Cienfuegos, CIGIDEN, Chile - From Informality to Formality: Resilient Settlement Development Actions for Local Government-Unit Administered Resettled Communities in Highly Urbanized Cities of Metro Manila, Dina Magnaye, University of the Philippines - Total water level prediction for military installation resilience, Jack Puleo, University of Delaware, USA																																																																																																																																																																																																																																																												
	Keynote 2	Global Earthquake Disaster Assessments and Reconstruction, Dr. H. Kit Miyamoto, CEO and Lead Structural Engineer, Miyamoto International Co., USA									Keynote 4	Participatory Convergence: Advancing Science and Reducing Risk Through Community Participation, Prof. Lori Peek, Director, Natural Hazards Center (NHC), Institute of Behavioral Science, University of Colorado Boulder, USA																																																																																																																																																																																																																																																																										
	Keynote 3	The Facets of Community Resilience Modeling: What Gaps Remain?, Prof. John van de Lindt, Co-Director, Center for Risk-Based Community Resilience Planing, Colorado State University, Fort Collins, Colorado, USA									Keynote 5	UNDRR/ISC Hazard Information Profiles update 2025, Prof. Virginia Murray, Head, Global Disaster Risk Reduction, UK Health Security Agency, United Kingdom																																																																																																																																																																																																																																																																										
											Keynote 6	Applied Academic Research to Prevent Wind Hazard from Becoming Disasters, Prof. Kishor Mehta, Emeritus P. W. Horn Professor, Department of Civil, Environmental and Construction Engineering, Texas Tech, USA																																																																																																																																																																																																																																																																										
12:30-13:30	Lunch Break - Venue: Ballroom D Lunch with keynote speakers - sign-up required - Venue: LSC 304, LSC 308, and LSC 312									12:00-13:00	Lunch Break - Venue: Ballroom D Lunch with keynote speakers - sign-up required - Venue: LSC 304, LSC 308, and LSC 312									12:00-13:00	Lunch Break - Venue: Ballroom D Lunch with keynote speakers - sign-up required - Venue: LSC 304, LSC 308, and LSC 312																																																																																																																																																																																																																																																																	
	Panel Discussion Session I	Progress and challenges for the final years of implementation of the Sendai Framework in several or more countries (Participants are required to select a panel discussion session.)										GADRI Regional Alliances Session - Introduction of Regional Alliances - Showcasing Collaboration and Research: Workflow and Opportunities Chair: Prof. Paul Kovacs, and Prof. Tetsuya TakemiVenue: Ballroom C - North American Alliance of Hazards and Disaster Research Institutes (NAAHDRI): Empowering Communities to Prevent Natural Hazards from Becoming Disasters Together - Prof. Grace Yan, Chair, NAAHDRI - Latin American and the Caribbean Disaster Research Institutions (LACARDI) - Dr. Rodrigo Cienfuegos, Director, CIGIDEN, and Associate Professor, Pontificia Universidad Católica, Chile - African Alliance for Disaster Research Institutes (AADRI) - Prof. Desmond Manatsa, President, AADRI; and Executive Dean, Faculty of Science and Engineering, Bindura University of Science, Zimbabwe - South Asia Alliance of Disaster Research Institutes (SAADRI) - Prof. Mahua Mukherjee, Secretary-General, SAADRI; and Professor, IIT Roorkee, India - UK Alliance for Disaster Research (UKADR) - Prof. Andrew Collins, Advisor, UKADR; and Disaster and Development Network, Northumbria University Newcastle, UK 4th World Bosai Forum, March 2024-Outcomes and Recommendations - Prof. Yuichi Ono, Director, IRIDeS, Tohoku University, Japan										Oral Presentations Advancing Global Disaster Risk Reduction and Resilience - Afternoon																																																																																																																																																																																																																																																																
	Priority Area 1: Understanding disaster risk: Marginalized Voices in Risk Assessment and Response Venue: LSC306	Priority Area 2: Strengthening disaster risk governance to manage disaster risk: Evidence-based Policy Making in Disaster Risk Reduction Venue: LSC310		Priority Area 3: Investing in disaster risk reduction for resilience: Exploring strategies for strengthening global DRR efforts through enhanced networking and collaboration Venue: LSC322		Priority 4: Enhancing disaster preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction: From “Every Day Counts” to Lasting Resilience Venue: LSC324																																																																																																																																																																																																																																																																																

15:00-15:15	Coffee break - Ballroom D		15:00-15:30	Coffee break - Ballroom D			15:00 - 15:30	Coffee break - Ballroom D		
15:15 - 16:30	Poster; and Seeds and needs Networking with Institutions Sessions Chairs: Prof. Toshio Fujimi, and Prof. Yuki Matsushi Poster - 23 presentations Seeds and Needs - Networking with Institutions Session - 8 presentation Venue: Ballroom D		15:30-16:30	Plenary Session III Venue: Ballroom C	Underscoring the need for fundamental research, and focus on advances in disciplinary and transdisciplinary research for natural hazards, cascading hazards, the resulting disasters, and models to reduce adverse impacts Chair: Prof. Mahua Mukherjee and Prof. Hirokazu Tatano			15:30-17:00	 4th General Assembly of GADRI	
16:30-18:00	Oral Presentations Advancing Global Disaster Risk Reduction and Resilience Session A - Chair: Dr. Kit Miyamoto and Prof. Terri McAllister Venue: Longs Peak Room • Post-Event Functional Recovery and Decision Support through Hybrid Mechanics-Informed Model-Sensor Fusion, Milad Roohi, University of Nebraska-Lincoln, USA • Development and Application of a tool towards Assessing the Feasibility of Permeable Pavement as one of the significant Flood Management Strategy, Mark M. Morales, and Dina Magnaye, Philippines • Cyclone disaster resilient community-based housing and shelter plans- a proposal, Edris Alam, Abdan Academy, Abu Dhabi • A Platform for Seismic and Tsunami Risk Assessment in Coastal Chile, Rosita Junneman, CIGIDEN, Chile			Keynote 7	Transdisciplinary Research for Natural Hazards, Prof. Peter Sammonds, Department of Risk and Disaster Reduction (RDR), University College London, UK					
				Keynote 8	Accelerating the implementation of the Sendai Framework for Disaster Risk Reduction – outcome of the 8th Session of the Global Platform for Disaster Risk Reduction, Dr. Yuki Matsuoka, Head, United Nations Office for Disaster Risk Reduction (UNDRR), Kobe Office, Japan					
				Keynote 9	Dance in Harmony with the Twister: One Step Back and Two Steps Forward toward Tornado Resilience, Prof. Grace Yan, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, USA					
18:00-19:30	Welcome Reception MC: Prof. John van de Lindt Venue: Ballroom D		16:30-18:00	Keynote 10	Risk Reduction Beyond Borders: Science-Based Policy and Community Resilience in Mexico, Mr. Enrique Guevara, General Director, National Disaster Prevention Center (CENAPRED), Federal Government of Mexico			17:00/18:00 - 20:00	Closing Reception MC: Prof. Hirokazu Tatano, Prof. John van de Lindt and Dr. Toshio Fujimi Venue: Ballroom D	
				Panel Discussion Session II: Understanding and improving the relationship between science and technology, policy, and community in the context of the elements of the UNDRR Sendai Framework for Disaster Risk Reduction and the UNCCC Paris Agreement						
				A: Convergence approaches in research and implementation Venue: LSC306	B: Focus on engagement, partnerships, communication, and resulting policies: Strengthening societal resilience for disasters Venue: LSC310	C: Underscoring the need for fundamental research and focuses on advances in disciplinary and transdisciplinary research Venue: LSC322				
18:00-19:30			16:30-18:00	Chair: Prof. Lisa Wang, Old Dominion University, Norfolk, Virginia, USA	Chair: Prof. Kaushal Keraminiyage, University of Salford, UK Co-Chair: Dr. Yuki Matsuoka, Head, The United Nations Office for Disaster Risk Reduction (UNDRR), Kobe	Chair: Prof. Elaina Sutley, University of Kansas, USA				
				Panelists: • The Value of Localization in Convergence\Research: Lessons from Haiti, Prof. Tracy Kijewski-Correa, University of Notre Dame, Notre Dame, Indiana, USA • The need for convergent research to reduce the impact of tornado hazard, Prof. Delong Zuo, Texas Tech University, Lubbock, Texas, USA • The Role of Research Software Engineering Process in Convergence Research, Dr. Jong Sung Lee, NCSA, Univ. of Illinois at Urbana-Champaign, Champaign, Illinois, USA • From Hazards to Recovery: A Network-Based Lens on Community Resilience, Dr. Chia-Fu (Joey) Liu, University of Kansas, Lawrence, Kansas, USA	Panelists: • A Kaleidoscope of Initiatives in Asia Pacific to navigate dynamic Resilience-scapes and Unpredictable Risk, Prof. Mahua Mukherjee, Indian Institute of Technology (IIT), Roorkee, India • From Scenario Simulation to Policy Dialogue: Enhancing Inclusive Recovery through Evidence-Based Planning, Prof. Kenji Koshiyama, Kansai University, Japan • Prof. Jamie Kruse, Colorado State University, USA • Prof. Virginia Murray, UK Health and Security Agency, United Kingdom	Panelists: • Dr. Ali Nejat, Texas Tech University • Lessons from the Field: Observing the Need to Advance Resilience Globally, Dr. Remy Lequesne, University of Kansas • Dr. Shiling Pei, Colorado School of Mines • Bridging Disciplines and Supporting Teams: Leveraging the Natural Hazards Center and CONVERGE Facility to Advance Interdisciplinary Disaster Science, Dr. Jennifer Tobin, Natural Hazards Center, University of Colorado Boulder				