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CONVERGE Virtual Forum – 2025 Southern California Wildfires, Session 1

Natural Hazards Center and NHERI CONVERGE University of Colorado Boulder



NSF Award #1635593 and #1841338



Purpose of the Virtual Forum Series

 Encourage communication, coordination, and collaboration among the research community

converge.colorado.edu/category/virtual-forums/

Purpose of Session 1 Forum

- Share *lessons learned* from previous wildfire investigations
- Hear from *research funders*
- Engage in *resource sharing*

*This session is being recorded. The **slides and video recording** will be posted on the CONVERGE website. converge.colorado.edu/virtual-forums/converge-virtual-forum-2025-southerncalifornia-wildfires-session-1/





Session 2 Forum

- February 5, 2025, 11:00 a.m. to 12:00 p.m. MT
- <u>converge.colorado.edu/virtual-forums/converge-virtual-</u> <u>forum-2025-southern-california-wildfires-session-2/</u>
- Hear from *locally-affected researchers*
- Learn about *launched* or *planned* research
- Discuss protocols and research priorities
 - Safety concerns and research access protocols
 - Ethical and cultural considerations
 - Research priorities for the ethical and rapid collection of perishable data





2025 Southern California Wildfires - Research and Resource Coordination

About this Document: The purpose of this document is to provide an outlet for researchers to communicate information regarding studies that have already been launched or are planned in response to the 2025 Southern California Wildfires. This is also a space for researchers and those interested in supporting the research response to share ideas regarding research that is needed as well as information about available data, equipment, resources, and funding opportunities.

- 1. Enter a Research Project Already Launched
- 2. Enter Details Regarding a Planned Research Study
- 3. Have Data, Equipment, Information, or Other Resources To Share? Enter Details Here
- 4. Have a Research Question, Idea, or Topic You Want to Promote? Enter It Here
- 5. Funding Opportunity? Enter Details Here

Why We Created this Document: Over the past 70 years, disaster research has produced fundamental insights that have reduced harm and suffering and transformed policy, emergency management practice, and building codes and standards. At the same time, <u>disaster zone research</u> can introduce challenges for busy emergency officials as well as for affected residents. As researchers, we have an ethical imperative to work together to minimize burdens on emergency responders and affected residents while also producing and sharing relevant results. This is an opportunity for our research community - and our partners across the nation and around the world - to come together to ensure *open communication, ethical coordination,* and *meaningful collaboration* to advance science for society.

Upcoming Events: We hope you will join us for CONVERGE Virtual Forums focused on the 2025 Southern California Wildfires.

Questions: This document was created and is maintained by the director of the <u>Natural Hazards Center</u> and the NSF-supported <u>CONVERGE facility</u> at the University of Colorado Boulder. New contributions are entered via the suggesting feature and will be reviewed and approved daily. If you have questions about this document or the upcoming forums, please contact Dr. Lori Peek at <u>Lori.Peek@colorado.edu</u>.







Shared Document

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I. Lessons Learned







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- Katie Dickinson, Colorado School of Public Health
- Shinwoo Choi, Texas State University
- Ratna Dougherty II, University of Southern Florida and Kaila Witkowski, Florida Atlantic University
- Shirley Feldmann-Jensen, California State University-Long Beach
- Erica Fischer, Oregon State University
- Tara Goddard, Texas A&M University



Images Credit: Steven J. Jensen, 2019 hazards.colorado.edu/quick-response-report/resilienceunder-fire







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II. Research Funding







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NIEHS Resources:

- NIEHS DR2 contacts (including EHS Network):
 - To: Lydia Louis, Lydia.Louis@nih.gov and Aubrey Miller, Miller.Aubrey@nih.gov
 - CC: Dylan Williams, <u>Dylan.Williams@nih.gov</u>
 - EHS Network Meeting: Thursday 1/23/25 @ 1:00-2:00pm EST
 - For meeting link please contact: Dylan Williams and CC: Lydia Louis
- Time-Sensitive Research Opportunities in Environmental Health: <u>https://www.niehs.nih.gov/research/supported/timesensitive</u>
 - Upcoming Due Dates: February 3, 2025 and April 1, 2025
 - <u>https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-25-003.html</u>
 - For all questions contact: Toccara Chamberlain, <u>Toccara.Chamberlain@nih.gov</u>
 - Submit letter of intent to (highly encouraged):
 - o To: Varsha Shukla, Varsha.Shukla@nih.gov
 - o **CC:** Toccara Chamberlain
- Worker Training Program: https://www.niehs.nih.gov/research/supported/translational/wtp
- DR2 Resources: https://tools.niehs.nih.gov/dr2/
- P30 Core Centers: https://www.niehs.nih.gov/research/supported/centers/core/grantees





Quick Response Research Award Program



- With funding from the National Science Foundation, the Natural Hazards Center established the Quick Response (QR) Research Award Program in 1986.
- The QR program provides training and funding up to \$5,000 for researchers to ethically and rapidly collect perishable data following disasters and other extreme events.
- Learn more about the program, award requirements, and how to submit a proposal at: <u>hazards.colorado.edu/research/quick-response-</u> <u>program/overview</u>





Images Credit: Erica Fischer et al., 2021 hazards.colorado.edu/quick-response-report/post-wildfire-damage



QR Special Call: Health Outcomes and Climate-Related Disaster Research

hazards.colorado.edu/research/quick-response/special-call/health-outcomes-climateresearch

- In 2023 and 2024, the National Institutes of Health (NIH) provided supplemental funding to the NSF and Natural Hazards Center for a Special Call for Health Outcomes and Climate-Related Disaster Research.
- Available funds support QR awards of \$10,000 to \$50,000 each.
- Funds must be used to collect perishable, health-relevant data focused on socially marginalized populations. Events must have occurred within 6 months or less of proposal submission.
- Awards to date: <u>hazards.colorado.edu/research/quick-response-report/funded</u>
- At this time, we are only accepting proposals for research focused on the 2025 Los Angeles Wildfires. As noted in the call, we will prioritize proposals that include use of equipment from the Natural Hazards Engineering Research Infrastructure (NHERI) <u>RAPID Facility</u>.
- Proposals must follow all submission guidelines: <u>hazards.colorado.edu/research/quick-response-report/guidelines</u>





Key Deliverable

- Awardees must submit a **20-page**, double-spaced report summarizing research findings and practical applications by no later than six months following award activation.
- Follow the report submission **guidelines** and **report template** here: hazards.colorado.edu/research/quick-responsereport/report-guidelines

hazards.colorado.edu/research/quick-responsereport/archives



Special Call for Health Outcomes and Climate-Related Disaster Research

Assessing Health and Environmental Impacts of 2023 Maui Wildfires on Asian Americans

Shinwoo Choi, Texas State University Yong Je Kim, Lamar University

In August 2023, a catastrophic wildfire engulfed Maui, Hawaii, took 115 lives and destroyed thousands of homes. The aftermath poses significant environmental challenges, including soil contamination and potential health risks. This research focuses on Asian American survivors, the largest ethnic minority in Maui County, investigating their health and mental well-being post-wildfire. It also examines the perspectives of healthcare providers regarding the impact of wildfire on soil contamination and health. Soil samples will be collected to assess contamination risks. The study seeks to illuminate the unique experiences of Asian American communities, contributing to disaster response and environmental conservation

Transportation as a Social Determinant of Health During

Xiang Yan, University of Florida Catherine Campbell, University of Florida Shih-Kai Huang, Jacksonville State Univer Xilei Zhao, University of Florida

Hurricane Idalia

This project will survey and interview Florida understand the role of transportation as a s Specifically, a survey will be conducted to re ownership, disability) constitute a major bar and to access healthcare and food throughout team will also conduct interviews to underst populations coped with healthcare/food acc the role of transportation assistance in addr

Quick Response Report Submission Guidelines



These guidelines are intended for recipients of the Quick Response Research Award.

Overview

Quick Response Awardees will submit a 20-page (5,000 word) report that will be published on the Natural Hazards Center Quick Response Reports page. Your report should concisely summarize your research and include an abstract, introduction, literature review, research design, results or findings, discussion and conclusion

We Can Answer Your Questions!

any questions.

W e are here to support you at every stage of the writing process. Not sure how to format a reference? Torn by word choice, or acceptable acronyms, or any othe sort of writing guandary? Please contact the Natural Hazards Center editing team with

Report Due Date

The reports for the Quick Response Research Award Program are due no later

than six months following award activation. Submit your report as a Word document (with photos submitted as separate IPG or PNG files) to the Natural Hazards Center at

haz.research.awards@colorado.edu. Please do not submit your report before reading the submission guidelines in full.

Style Guide

Before you start writing, please review our Natural Hazards Center Publication Style Guide. The style guide answers frequently asked questions about our writing style and how to format headings, tables, figures, block quotes, appendices, and more. Reports that do not follow the style guide will be returned to the author for further revision

Template

Download the Report Template below and save it as a Word document. The template has pre-formatted headings and instructions that will help you create your report. Scroll to the end of the document for a checklist of all our style requirements. Please review this checklist prior to submitting your final report to ensure it complies with our guidelines.

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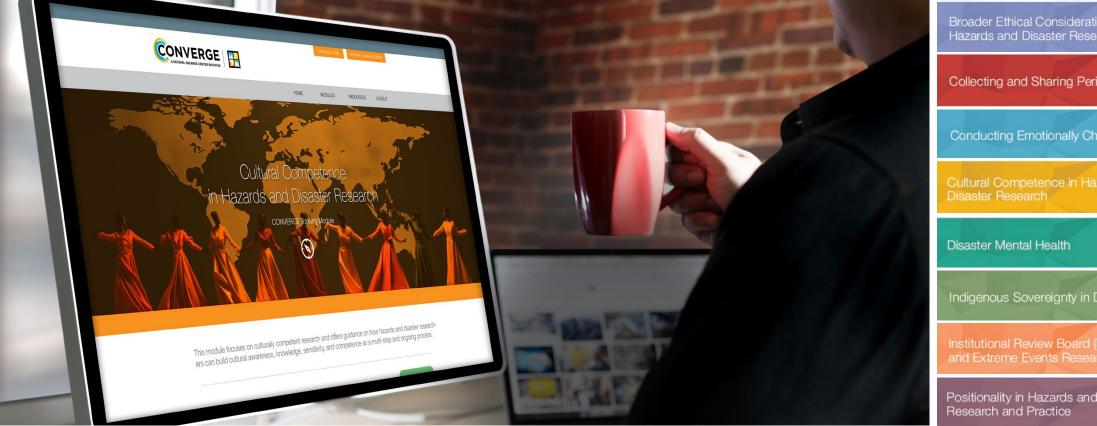
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III. Shared-Use Resources









CONVERGE Training Modules

converge.colorado.edu/resources/training-modules/



Broader Ethical Considerations for Hazards and Disaster Researchers

Collecting and Sharing Perishable Data

Conducting Emotionally Challenging Research

Indigenous Sovereignty in Disaster Research

Institutional Review Board (IRB) Procedures

Positionality in Hazards and Disaster

Public Health Implications of Hazards and Disaster Research

Reciprocity in Hazards and Disaster Research

Social Vulnerability and Disasters

Violence in Fieldwork



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CONVERGE Extreme Events Research Check Sheets Series

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EXTREME EVENTS RESEARCH

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CHECK SHEETS SERIES

EXTREME EVENTS RESEARCH CHECK SHEETS SERIES

PART I: CONDUCTING A SYSTEMATIC LITERATURE REVIEW

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Candace Evans, University of Colorado Boulder evaluating a systematic literature review is an essential part of the research process. By identifying and critically evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research topic research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research tenes can identify gaps and/or inconsistencies in the evaluating available knowledge on a research tenes can identify gaps and/or inconsistencies in the evaluation of the tenes of tenes can identify gaps and/or inconsistencies in tenes of tenes can identify gaps and/or inconsistencies in tenes of tenes of tenes can identify gaps and/or inconsistencies in tenes of ten Conducting a systematic literature review is an essential part of the research process. By identifying and critically and critically applicating available knowledge on a research topic, researchers can identify gaps and/or inconsistencies in the existing interature. This can inform the development of innovative research questions and help prioritize what perichapte and interature. المعنى المعن المعنى المعنى المعنى المعنى المعنى المعن المعنى الم المعادية معادمات معادم معادمات معاد mitigation, preparedness, and recovery oriented research. It is important that interature reviews are conducted in a systematic fashion that is objective, thorough, and reproduc-ible. Adapted from Kugley et al. (2016), we provide the following recommendations for systematically reviewing the It is important that literature reviews are conducted in a systematic fashion that is objective, thorough, and reproduc-ble. Adapted from Kugley et al. (2016), we provide the following recommendations of experiment with the provide the following the fol



doi:10.1111/disa.12592

Defining, collecting, and sharing perishable disaster data

Rachel M. Adams Research Associate, Natural Hazards Center, University of Colorado Boulder, United States, Candace M. Evans Doctoral Candidate, Department of Sociology, and Graduate Research Assistant, Natural Hazards Center, University of Colorado Boulder, United States, and Lori Peek Professor, Department of Sociology, and Director, Natural Hazards Center, University of Colorado Boulder, United States

Researchers across disciplines have long sought to collect 'perishable data' in the context of disasters. Yet, this data type is neither consistently defined nor discussed in specific detail in the literature. To address this gap, this paper defines perishable data and provides guidance on ways to improve both how it is collected and shared. Here, perishable data is conceptualised as highly transient data that may degrade in quality, be irrevocably altered, or be permanently lost if not gathered soon after it is generated. Perishable data may include ephemeral information that must be collected to characterise pre-existing hazardous conditions, near-miss events, actual disasters, and longer-term recovery processes. This data may need to be gathered at multiple points in time across varying geographic scales to accurately characterise exposure, susceptibility to harm, or coping capacity. The paper considers ethical and logistical challenges and discusses opportunities to advance equitable perishable data collection and dissemination.

Keywords: data collection, data publication, perishable data, quick response, reconnaissance, research ethics, research coordination

Introduction

The rapid collection of data immediately prior to, during, and in the direct aftermath of a disaster is a cornerstone of the multidisciplinary field of hazards and disaster studies (Tierney, 2019). Yet, to date, very little has been written about what is often referred to as 'perishable data', including what distinguishes it and what challenges are associated with its collection and dissemination.

Considering this gap in the literature, the goal of this paper is twofold: (i) to clarify the attributes of perishable data; and (ii) to offer recommendations to improve how it is collected and shared. We begin with an overview of how the collection of perishable data has been approached in the hazards and disaster field by both researchers and funders. We then review available literature to synthesise and advance a definition that encompasses the distinctive qualities of perishable data. In our search for available definitions of perishable data, we reviewed relevant peer reviewed and grey literature from the past 50 years and read more than 300 reports of studies funded through the Natural Hazards

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A Resource for Those Planning to Collect Perishable Data

Adams, R. M., C. M. Evans, and L. Peek. (2023). "Defining, Collecting, and Sharing Perishable Disaster Data." *Disasters* 48(1): e12592. https://doi.org/10.1111/disa.12592

Other **publications** from CONVERGE researchers available at:

converge.colorado.edu/category/publications/



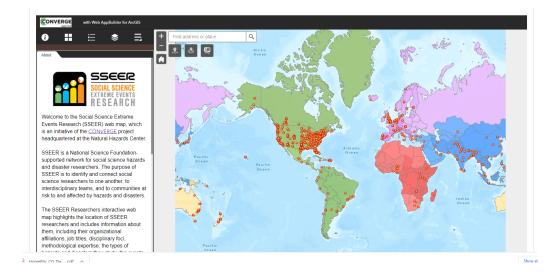




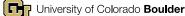
Reconnaissance and Research Coordination Networks

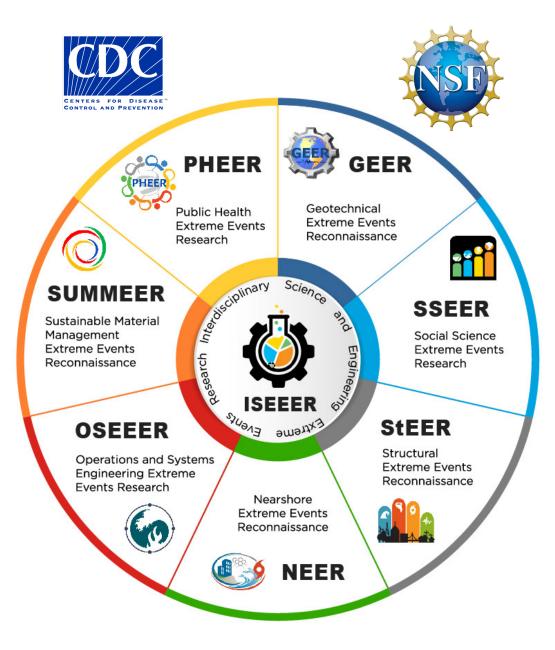
Social Science Extreme Events Research (SSEER)

converge.colorado.edu/research-networks/sseer/

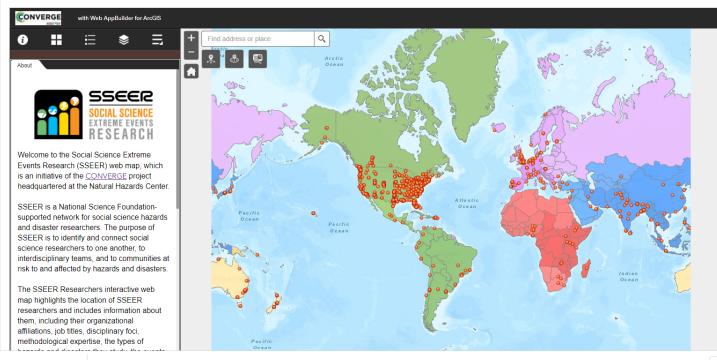








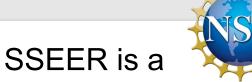
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NSF-supported global network of social scientists who study hazards and disasters. SSEER identifies researchers to develop the social science workforce and coordinates social science research teams in largescale disasters to **advance** scholarship on the root causes and human consequences of extreme events.

converge.colorado.edu/research-networks/sseer/



Wildfire-Focused **Publications**

This page contains dozens of Natural Hazards Centersupported publications focused on preparedness, response, and recovery from wildfires.

hazards.colorado.edu/resources/wildfires

NATURAL HAZARDS ABOUT US PUBLICATIONS TRAINING RESOURCES WORKSHOP AWARD PROGRAMS RESEARCH CENTER Wildfire Publications

Wildfire Publications

This page contains a number of Natural Hazards Center-supported publications, which demonstrate lessons learned concerning protective actions, knowledge exchange, and evacuation decision making, among many other relevant topics. Many of the publications below also include recommendations to reduce future harm. We hope the approaches and findings from this prior work can be used to inform the research response and recovery from the 2025 Southern California Wildfires and other events unfolding nationally and globally. Please visit our Center News Story page for additional wildfire resources.



Quick Response Reports

Weather Ready Report

Mitigation Matters Reports

Research Counts Articles

Directors Corner Article

Public Health Report

Quick Response Research Award Program

Since 1986, the Natural Hazards Center has administered the Quick Response Research Award Program. This program, which is made possible with funding from the National Science Foundation, encourages the ethical collection of perishable data in the aftermath of disaster. Funding support allows researchers to document disasters before memories fade and physical evidence is erased. The following 35 reports focus on wildfire research conducted as part of the

Quick Response Research Award Program.

QR363 | Renter Experiences After Colorado's Marshall Fire (2023) Katie Dickinson, Andrew Rumbach, Elizabeth Albright, and Deserai Crow

QR361 | Land Use Adaptations to Wildfire in Unincorporated Communities in Colorado (2023) Divya Chandrasekhar, Donovan Finn, Santina Contreras, and Tasnim Tarannum Isaba

Read More

Special Call for Research: FEMA Region 8

The Natural Hazards Center-in partnership with the Federal Emergency Mangement Agency (FEMA) and the National Science Foundation-funded a special call to expand understanding of hazards and disasters experienced in FEMA Region 8. These reports also offer actionable guidance for emergency managers.







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Open Discussion and Resource Sharing



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THANK YOU

Questions? Contact: Lori Peek, Ph.D. Lori.Peek@colorado.edu

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