

»» NEWSLETTER ««

NASA Equity & Environmental Justice

EEJ NEWS

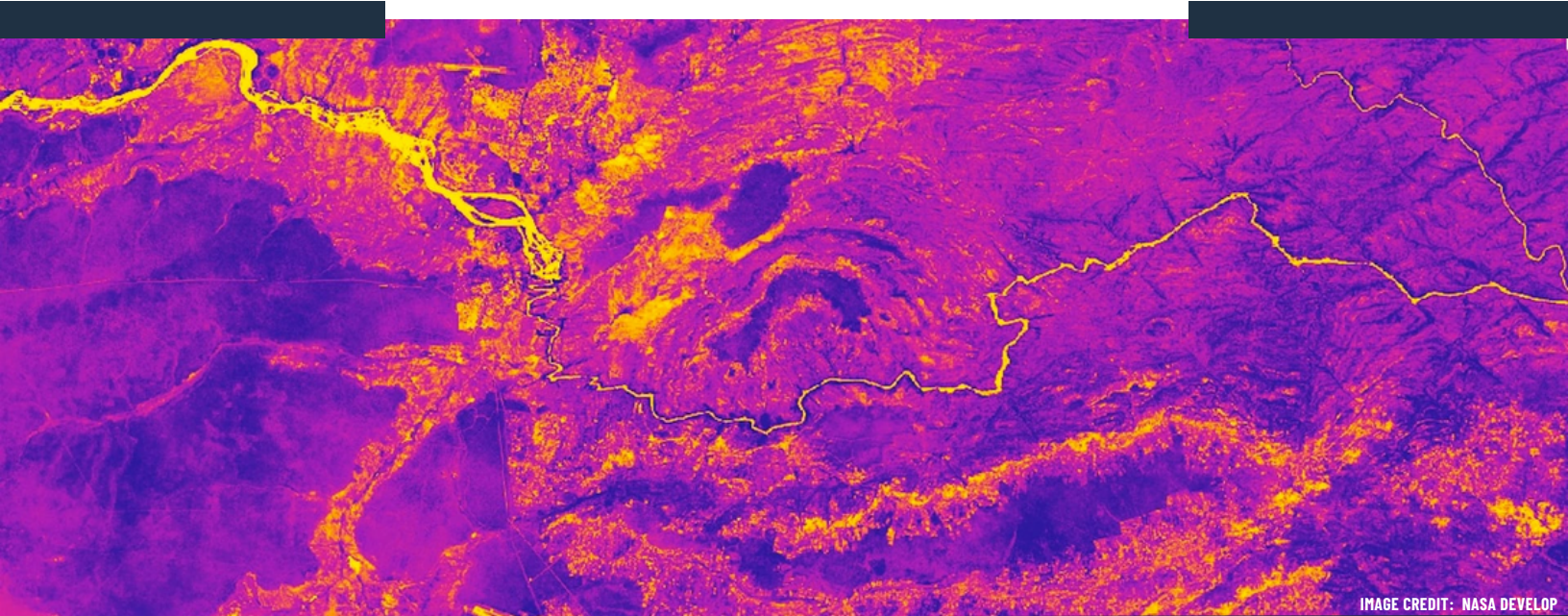


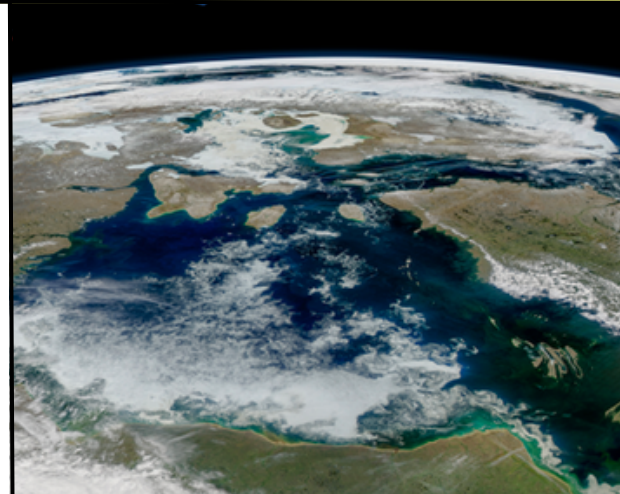
IMAGE CREDIT: NASA DEVELOP

»» ANNOUNCEMENTS ««

NEW COMMUNITY PUBLICATION: SATELLITE DATA FOR ENVIRONMENTAL JUSTICE

Authors: Tanya Kreutzer Sayyed, Ufuoma Oviemhada, Mitra Kashani, Karn Vohra, Gaige Hunter Kerr, Catherine O'Donnell, Maria H Haris, Laura Gladson, Adrea Titus, Susana B Adamo et al.

On February 13, members of the NASA Health and Air Quality team, the CDC, EDF and collaborators from multiple universities published a scoping review of the U.S. literature that applied satellite data for environmental justice research from 2000 to 2022. The review aimed to (1) explore trends in study design, topics, geographic scope, and satellite datasets used to research EJ, (2) synthesize findings from studies that use satellite data to characterize disparities and inequities across socio-demographic groups for various environmental categories, and (3) capture how satellite data are relevant to policy and real-world impact. Among other findings, they concluded that satellite data for EJ research can support targeted interventions or influence planning and policy changes, but significant work remains to facilitate the application of satellite data for policy and community impact. Read the publication [HERE](#).



NASA EQUITY ACTION PLAN

On February 14, NASA released the updated 2023 NASA Equity Action Plan, which outlines key accomplishments in increasing equity across the agency, and new commitments to continue removing inequitable barriers and challenges facing underserved communities. NASA's 2023 Equity Action Plan provides strategies for ensuring more individuals can work with and learn from the agency. This includes: expanding equity in NASA's procurement process, enhancing grant agreements to advance opportunities for underserved communities, increasing the accessibility and use of Earth science data, improving language access policies to expand access for limited-English proficient populations, and engaging more students to build a diverse future science, technology, engineering, and mathematics workforce. Learn more [HERE](#).



UPCOMING CONFERENCES



HAMPTON ROADS SOCIAL JUSTICE CONFERENCE

Dates: April 9-10, 2024. Newport News, Virginia

In order to facilitate deeper interdisciplinary and cross-sector dialogue, Christopher Newport University's Center for Crime, Equity, and Justice Research and Policy and the Hampton Roads CCD Network will co-host the third annual Hampton Roads Social Justice Conference. The goal of this conference is to bring together researchers, policy makers, elected officials, non-profit organizations, community activists, business leaders, the faith community, and all others from across Virginia who are working on pressing social justice issues in our region. Regular registration is open March 12-April 1, 2024. Learn more [HERE](#).



ASSOCIATION OF AMERICAN GEOGRAPHERS

Dates: April 16-20, 2024. Honolulu, Hawai'i

Join the Association of American Geographers at the AAG Annual Meeting for the latest in research and applications in geography, sustainability, and GIScience. The AAG Annual Meeting is an interdisciplinary forum open to anyone with an interest in geography and related disciplines. All scholars, researchers, and students are welcome. The five-day conference will host geographers from around the world and feature presentations, posters, workshops, and field trips by leading scholars, experts, and researchers. Sessions will be organized around many subfields, special tracks, and featured themes including reciprocal scholarship, colonialism and resources, and recovery and restoration. 10 nodes will also host "watch parties" with access to streamed content from the annual meeting, allowing attendees to watch sessions together. Node locations in the U.S. include Rutgers University, Penn State, Binghamton, Colorado Boulder, and more. Learn more [HERE](#).



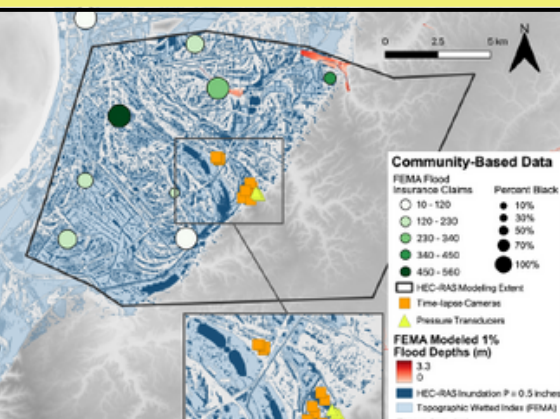
AMERICAN PUBLIC HEALTH ASSOCIATION ANNUAL MEETING

Dates: October 27-30, 2024. Minneapolis, MN

This annual APHA meeting is where public health professionals convene, learn, network, and engage with peers. The meeting serves to strengthen the profession of public health, share the latest research and information, promote best practices and advocate for public health issues and policies grounded in research. This year's meeting theme is rebuilding trust in public health and science. Submit abstracts by March 29 [HERE](#) and Learn more [HERE](#).



PROJECT HIGHLIGHTS



Community Feasibility Study: Urban Flood Modeling Using a Data-Driven, Community-Centered Approach in Centreville, IL

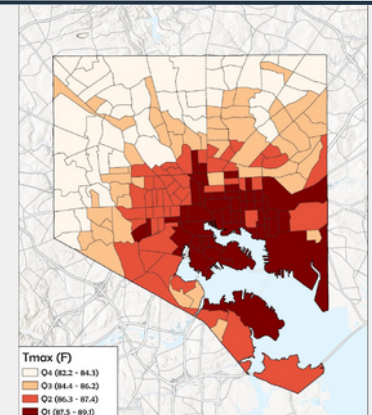
Team: Claire Masteller (Washington University), Jose Constantine (Williams College), Hossein Hosseini (Washington University in St. Louis)

Low-income and minority communities are often vulnerable to frequent flooding due to lack of infrastructure for surface runoff mitigation practices and flood monitoring systems. However, due to lack of measured data, the assessment and modeling of flooding conditions in vulnerable communities remain. The primary objective of this Community Feasibility Study is to integrate satellite-based data with community-engaged monitoring and resident experiences to document ongoing flooding hazards in a low income, predominately Black community in Centreville, IL. Through established and ongoing community partnerships, the research team has implemented a community-engaged flood monitoring system with guidance from residents. Learn more [HERE](#).

Equity, Environmental Justice, & Extreme Heat: Leveraging Earth Observations to Strengthen Community Driven Climate Mitigation Strategies

Team: Jaime Madrigano (John Hopkins University), Darryn Waugh (John Hopkins University), Benjamin Zaitchik (John Hopkins University), Bianca Corpuz (John Hopkins University)

Poor and minority urban communities are disproportionately impacted by the effects of extreme heat, posing a significant environmental justice concern. While heat mitigation strategies typically occur at the city-level, differences reveal that vulnerability in underserved communities may not be adequately characterized, resulting in strategies that are insufficient to address community needs. In an effort to close this gap, collaboration between researchers and local communities has been critical to effectively define, evaluate, and iterate heat mitigation strategies. This project addresses this concern by leveraging already proposed strategies for heat mitigation and existing remote Earth Observation data to inform heat mitigation planning. Learn more [HERE](#).



NASA FUNDING OPPORTUNITIES

A.47: Community Action for Equity and Environmental Justice

NASA seeks to advance EEJ through the creation of geospatial tools that integrate Earth science and socio-economic information, expand the communities of practice that use Earth observations to address environmental justice issues, and inform action. NASA requests proposals developed in collaboration with underserved and overburdened communities, that involve a co-design process to address community interests to use Earth science information in decisions, actions, and policies.

Proposals are due by **March 14, 2024**. Learn more and view the pre-proposal telecon [HERE](#).

A.42: Earth Action: Disaster Risk Reduction, Recovery, and Resilience

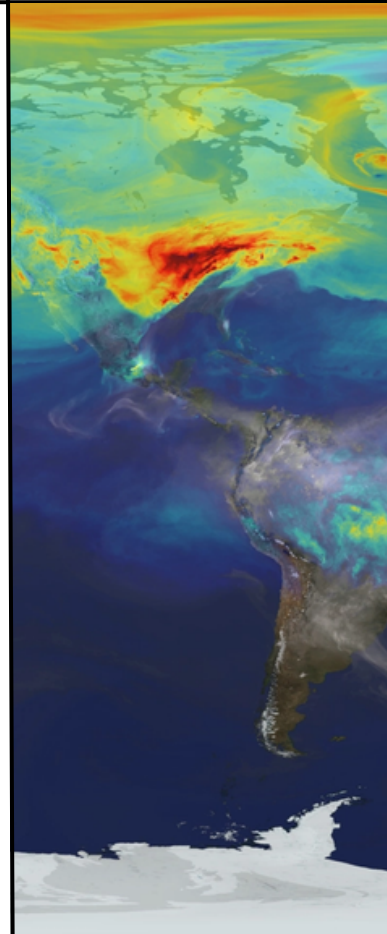
NASA seeks proposals for projects that expand the development and application of tools and capacities in the use of Earth science information for supporting decisions related to disaster risk reduction, recovery, or resilience. Proposals are required to address the linkages between natural or human-made hazards, exposure to these hazards, and the vulnerability of communities to these hazards for improved disaster management. These projects must demonstrate tangible benefits to one or more partners, improved outcomes in the actions of the partner from using Earth observations in their decision-making process, and/or measurable improvements in the lives and livelihoods that their decisions affect.

NOIs are due by **March 28, 2024** and proposals due **June 14, 2024**. Find a link to the pre-proposal telecon (scheduled for April 11, 2024) and learn more [HERE](#).

A.67: Supporting Climate Resilient Communities

This call for proposals aims to increase the use of NASA Earth observations to support community resilience, expand the communities of practice who use NASA Earth observations to develop climate-informed community resilience decisions, demonstrate the value of using NASA Earth observations to prepare for and respond to climate change, and inform NASA's future strategic engagement and activities on climate resilience. Proposals must engage communities in advancing climate-informed decisions that enhance their resilience to the impacts of climate change and involve organizations that assist in knowledge sharing between scientists and decision makers.

Proposals are due by **May 3, 2024**. Learn more [HERE](#).



SPRING INTERN SPOTLIGHT: KAMERON LLOYD

Kameron Lloyd, returning for her third term at NASA EEJ, is a senior at Vanderbilt majoring in Earth and Environmental Sciences and Communication of Science and Technology. At EEJ she's produced a white paper with recommendations to enhance NASA's EEJ disaster research, created EEJ resource guides and communication materials, and analyzed other EJ solicitations to identify the most effective strategies to increase community engagement in NASA's research. Before EEJ, she participated in the NASA DEVELOP program, working with Groundwork USA/NRG to map flood vulnerability in Kansas City. She's likewise held research roles looking at the proximity of prisons to hazardous waste sites and the correlation between elevated nighttime heat and high social vulnerability. She is passionate about environmental justice, climate resilience, and community engagement. Graduating in May, she is actively looking for professional opportunities in the space and would love to connect! Connect with Kameron [HERE](#).



UPCOMING EVENTS



EPA WEBINAR - SOCIAL SYSTEMS AND JUSTICE IN THE FIFTH NATIONAL CLIMATE ASSESSMENT

Date: March 12, 2024 3:00-4:00 p.m. ET

This webinar shares findings from the Fifth National Climate Assessment's Social Systems and Justice chapter. This webinar will review the chapter's three key messages: social systems are changing the climate and distributing its impacts inequitably; social systems structure how people perceive and communicate about climate change; and climate justice is possible if processes like migration and energy transitions are equitable. Register [HERE](#).



Tuesday, March 26, 2024 3:00 PM - 4:00 PM

(UTC-06:00) Central Time (US & Canada)

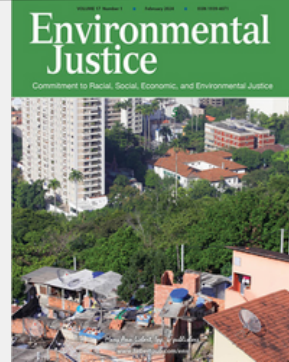
NASA EEJ WEBINAR - CO-PRODUCTION IN ADDRESSING COMMUNITY NEEDS

Date: March 26, 2024 4:00 PM - 5:00 PM ET

This webinar is part of NASA's EEJ monthly webinar series, aiming to strengthen the NASA EEJ community of practice as well as encourage knowledge sharing between PI's, team members, and others doing EEJ work. This specific session will provide EEJ program updates as well as talks focusing on the coproduction of environmental justice research with community groups. Speakers will discuss the Community Model as well as Reflexive Co-production. The session will close out with a guided discussion and Q&A. Register [HERE](#).

CALL FOR PAPERS: MAKE IT MATTER

Mary Ann Liebert Inc. Publishers are searching for papers focusing on action research, community science, and participatory approaches that change the status quo. Submissions are encouraged that postulate how community leadership and empowerment in environmental justice research can lead to remarkable changes in the EJ status quo of their neighborhoods. Authors may include community individuals and organizations, academic researchers, and governmental staff. Submissions that sought to change the status quo but were unsuccessful are also welcome. Manuscripts written by academics, community representatives, students, and many others are encouraged. The deadline to submit manuscripts is **March 15, 2024**. Read more [HERE](#).



MANUSCRIPT SOLICITATION: ENVIRONMENTAL ENGINEERING FOR COMMUNITY-ENGAGED RESEARCH

Environmental engineering research includes community-centered elements to address historical and contemporary environmental problems. This Focus Issue solicits manuscripts that describe community engaged research efforts with environmental engineering principles to foster outcomes that address historical transgressions. Contributions can focus on environmental challenges such as air or water quality, soil health and solid waste. Submissions could also address public policy and decision-making that impacts environmental quality – such as analysis of roadways, utilities, and green infrastructure. The target deadline for submissions is July 31 2024. Learn more [HERE](#).

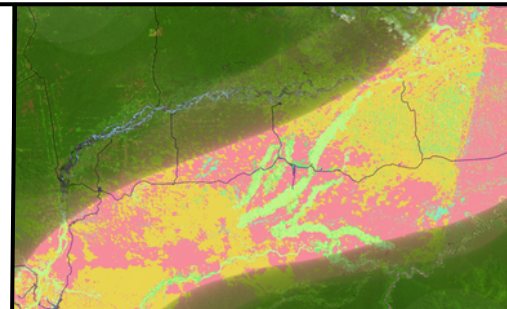


CAREER OPPORTUNITIES

[Program Manager, Natural Infrastructure Center for Environmental Justice and Resilience](#)

[Social Science GIS Analyst, NCCOS Biogeography Branch](#)

[Tribal Mapping Analyst, Native American Fish and Wildlife Society](#)



»»» INTRODUCTION TO EEJ «««

The Equity and Environmental Justice Program (EEJ)

The EEJ program aims to advance progress on equity and environmental justice. One part of this effort is to help build the community of practice around the application of Earth science information to inform action in EJ communities by monitoring and measuring environmental factors. This newsletter is one of the program's strategic communication efforts for engaging those working in the space. It will continue to evolve, so please share your thoughts for what information is useful to you!

Learn more about the EEJ Program and access our previous newsletters by visiting our website [HERE](#).

CONTACT US:

[Contact us](#) with “EEJ newsletter” in the subject line with any comments, questions, or feedback!

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