

# »»» NEWSLETTER «««

NASA Equity & Environmental Justice

# EEJ NEWS

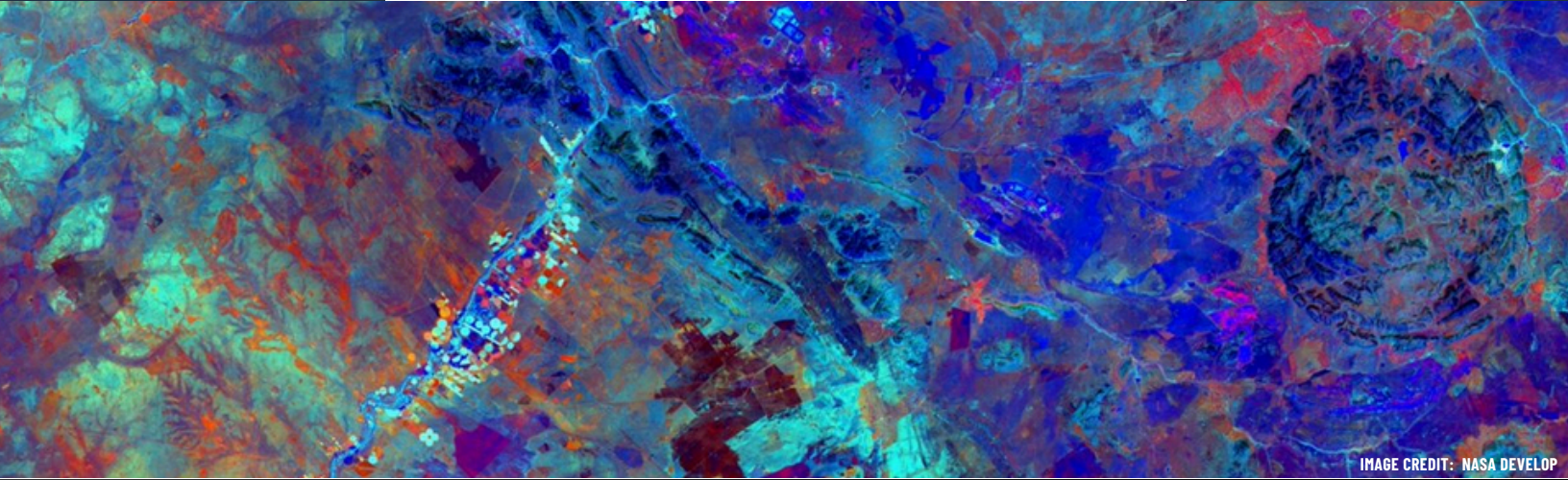


IMAGE CREDIT: NASA DEVELOP

## »»» ANNOUNCEMENTS «««

### Help the California Air Resources Board Incorporate Environmental Justice into its Research Priorities

The California Air Resources Board (CARB) is seeking input to incorporate environmental justice into research priorities for CARB's 5-Year Strategic Research Plan (Plan). CARB is collaborating with communities through a series of roundtable meetings designed to help incorporate environmental justice into future research on air quality, climate change, health, and sustainable communities. Come share your research needs and priorities in small group discussions. All meetings are open to the public and broad participation is encouraged. Outcomes from the meeting will help shape potential research projects for the 2025-2030 time period.

For more information, click [HERE](#).



IMAGE CREDIT: EARTH.ORG



### NASA Space Apps Challenge

The NASA International Space Apps Challenge, held October 5-6, is inviting participants to utilize NASA's free and open data, as well as its 15 Space Agency Partners space-based data, to address issues we face on Earth and in space. This global hackathon offers the opportunity for participants of all ages and skill levels to use their ingenuity to address 20 challenges written by NASA subject matter experts by proposing new technologies, finding actionable use for data, and inspiring learning and innovation. Challenges range in difficulty and topics range from climate issues, data visualization, space exploration, and more.

For more information click [HERE](#).



# ARE YOU READY?

**OCTOBER 5-6, 2024**

Register at [spaceappschallenge.org](https://spaceappschallenge.org)



## Webinar Series: Bringing together Indigenous Knowledge and Western Science to Inform research, monitoring, decision-making, and policy

The inter-agency working group Co-production of Knowledge, Co-Stewardship, and Co-management, under the National Science Technology Council Subcommittee on Indigenous Knowledge, is holding three interconnecting sessions that will be facilitated through September. The sessions will host Indigenous Leaders in panel discussions about bringing together knowledge systems through research, monitoring, decision-making, and policy. In October, a final session will focus on a workforce discussion.

- [Session 1](#): Sept. 17th, 1:00 - 2:10 pm PST (4-5:10 pm EST). **Register [HERE](#)**
- [Session 2](#): Sept. 24th, 1:00 - 2:10 pm PST (4-5:10 pm EST). **Register [HERE](#)**
- [Session 3](#): Sept. 30th, 1:00 - 2:10 pm PST (4-5:10 pm EST). **Register [HERE](#)**
- Session 4: October 23rd, *Link to be shared*

The webinar series welcomes all Federal workforce (including affiliates and contractors). Please register for each session using your Federal work email.

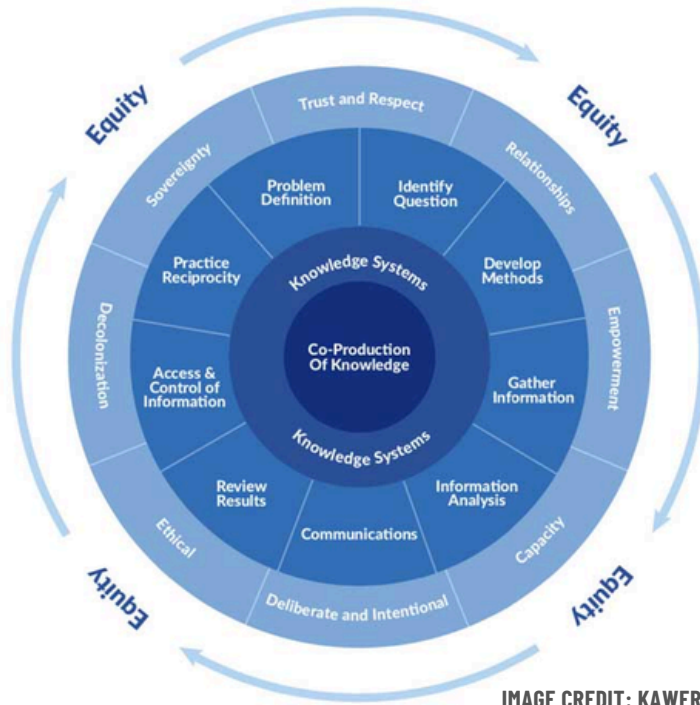


IMAGE CREDIT: KAWERAK INC.

*“There is a strong need to understand multiple drivers and their cumulative impacts using methodologies from both science and Indigenous Peoples knowledge systems. Bringing together multiple knowledge systems and scientific disciplines should be advanced through a co-production of knowledge approach.”*  
(Source: Kawerak Inc.)

## NASA Postdoc Opportunity: Investigating Air Quality Challenges, Health Impacts and Environmental Justice in California

NASA Ames seeks a candidate to investigate the intersection of atmospheric science and environmental justice. This position will combine NASA Earth observations from satellites, airborne measurements, ground-based instruments and socioeconomic datasets to explore disparities in exposure to air pollutants and implications on human and ecosystem health.

Candidates will conduct research investigations to understand the role of atmospheric pollutants in tropospheric chemistry and environmental justice within California’s San Joaquin Valley. Key questions include:

- How do atmospheric conditions, local topography, climate and season influence air pollutant concentrations in the San Joaquin Valley?
- Which communities and areas endure elevated exposure risks?
- What are the effects of long-term exposure to air pollutants in the San Joaquin Valley, particularly on vulnerable communities?
- How is climate change disproportionately affecting air quality conditions across the San Joaquin Valley?
- What opportunities exist for interdisciplinary collaboration and knowledge exchange with residents, local advocacy groups and policy makers in the San Joaquin Valley?

**Application deadline is November 1, 2024, 6:00:59 PM EDT.**  
More information on the position and application [HERE](#).







# UPCOMING CONFERENCES



## Yale Global Environmental Justice Conference

Dates: November 8 - November 9, 2024, New Haven, CT

The Yale Center for Environmental Justice (YCEJ) is hosting the 6th Global Environmental Justice Conference titled Environmental Joy: Roadmaps for Resistance, Resilience, and Thriving, held on November 8-9, 2024. The conference agenda will consist of tracks, interactive sessions, plenaries, and exhibitions/showcases for its art and culture components, to spark synergies among existing efforts as well as innovation and scale for new environmental justice work. The audience for the conference includes environmental and climate justice communities, policymakers, academics, and thought leaders in faith and culture, though all are welcome to attend.

Register [HERE](#).  
Learn more [HERE](#).

6th Annual Yale  
Global Environmental Justice Conference

## ENVIRONMENTAL JOY: Roadmaps for Resistance, Resilience, and Thriving

November 8 - 9, 2024



## 2024 SACNAS NATIONAL DIVERSITY IN STEM (NDISTEM) CONFERENCE

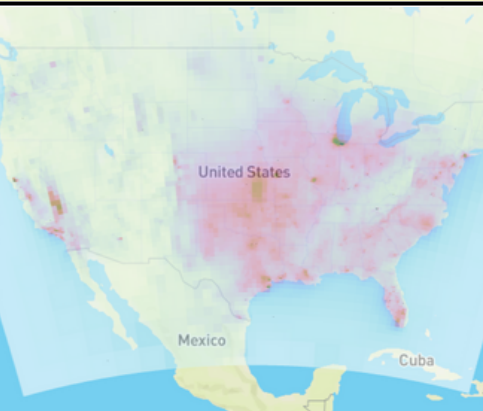
Dates: October 31 - November 2, 2024, Phoenix, AZ

The largest multidisciplinary and multicultural STEM diversity event in the country, SACNAS' premier conference is a gathering which serves to equip, empower, and energize participants for their academic and professional paths in STEM. Over the course of the event, college-level through professional attendees are immersed in cutting-edge STEM research, professional development sessions, motivational keynote speakers, and the Graduate School & Career Expo Hall, as well as multicultural celebrations and traditions, and an inclusive and welcoming community of peers, mentors, and role models. Simply put, the NDISTEM Conference is a broadly inclusive space where you are encouraged and empowered to bring your whole self to STEM.

Learn more and register [HERE](#).



# PROJECT HIGHLIGHTS



## An Observation-Driven Framework for Air Pollution Equity and Justice Intervention Modeling

Team: Christopher Tessum, Tracey Holloway (University of Wisconsin, Madison), Jessica Price (City of Madison), Brian Urbaszewski (Respiratory Health Association), Diana Van Vleet (American Lung Association), Langston Verdin

From highways to industry, construction to residential energy use, Black people and other people of color in America are disproportionately affected by nearly every major source of air pollution. This exposure shortens life expectancy, increases incidence of disease, and compounds historic injustices and economic disadvantage. As the U.S. energy, industrial, and transportation systems evolve, communities need access to air quality information to participate fully in decision-processes and advance equitable solutions

Learn more [HERE](#).

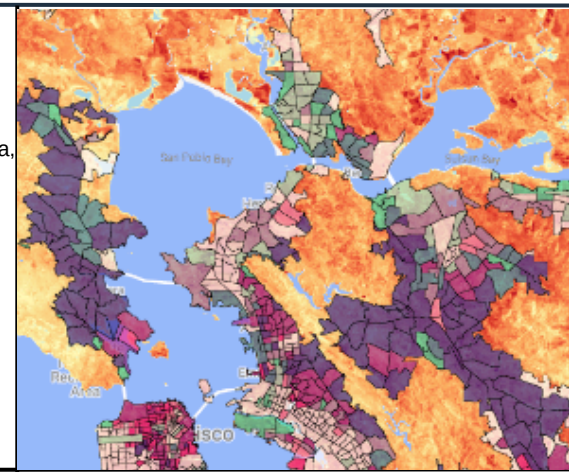
## Where the Grass Grows Greener: The impacts of Urban Greening on Housing Prices and Neighborhood Stability.

Team: Iryna Dronova, Karen Chapple (University of California, Berkeley); Zoe Hamstead (University of California, Berkeley)

The onset of climate change has increased awareness of the importance of green space in cities, which mitigate heat extremes, absorb flood waters, act as fire breaks, support urban agriculture, and provide much needed recreational space for residents.

This project aims to examine the relationship of green space, both formal and informal, in the San Francisco Bay Area, California, USA to property prices and rents, household mobility, and the redevelopment pipeline in order to determine first the impacts of proximity to such space on community stability, and second the potential that such space will be eliminated.

Learn more [HERE](#)





## A.32 Precipitation Measurements Mission and CloudSat and Calipso Science Team Recompete

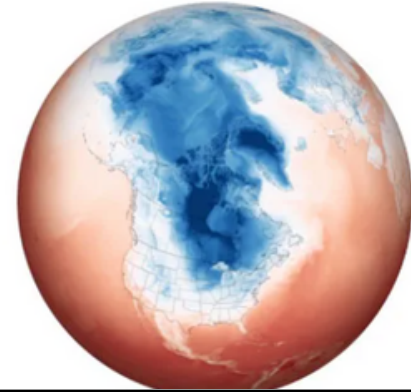
This program element solicits investigations associated with the Precipitation Measurements Mission (PMM) and the CALIPSO/CloudSat (CC) Science Teams. While solicitations for these science teams have been independent in the past, changes in instrument status and programmatic goals for the two science teams have led to a more unified approach, while still retaining some independence due to continuing differences in science and applications goals. This ROSES element solicits proposals for flight planning and campaign execution, based on the scientific objectives laid forth in the white paper posted under "Other documents" on the NSPIRES page for this program element. Proposals may include requests for meteorological forecasting and flight planning support, as well as modeling and other support.

Proposals are due by November 20, 2024. Learn more [HERE](#).

## A.24 WEATHER & ATMOSPHERIC DYNAMICS

The Weather and Atmospheric Dynamics Focus Area (WADFA, <https://science.nasa.gov/earth-science/focus-areas/earth-weather>) supports research to obtain accurate measurements of the atmosphere that help improve the understanding and prediction of weather at local, regional, and global scales. Weather includes meteorological phenomena ranging from localized microphysical processes that occur in minutes, to global-scale phenomena that can last an entire season. This ROSES element solicits proposals for participation in the North American Upstream Feature-Resolving and Tropopause Uncertainty Reconnaissance Experiment (NURTURE). The scientific targets of NURTURE are described in the white paper under "Other documents" on the NSPIRES page for this program element.

Proposals are due November 8, 2024. Learn more [HERE](#).



## INTERN SPOTLIGHT



### Sarah Swiersz

Meet Sarah Swiersz, a current graduate student at University of Central Florida (UCF) pursuing an M.A. in Interdisciplinary Studies. Sarah received her B.S. in Interdisciplinary Studies, with Concentrations in Geoscience, Environmental Studies, and Service-Learning, from UCF in 2020. Her undergraduate and graduate thesis research explores climate justice in the context of noneconomic losses & damages experienced by Indigenous People Groups. Between undergraduate and graduate studies, Sarah completed the two-year Science & Technology Policy Institute Science Policy Fellowship, during which she provided policy support to the White House Office of Science & Technology Policy and Federal R&D agencies. Prior to joining EEJ, Sarah was a member of the NASA DEVELOP Florida Gulf Coast University Pop-Up Project, which assessed the feasibility of using Earth Observation data to inform the Seminole Tribe of Florida's water quality management decision-making.

### Erika Lisco

Meet Erika Lisco, a current graduate student at Clark University working towards her master's in Geographic Information Science (GIS). She received her bachelor's in environmental science from the Ohio State University with a focus on water science. In her previous experiences, she served as an AmeriCorps VISTA with the County of Hawai'i working primarily in climate action with additional projects in housing and disaster recovery. She also worked on the creation of maps and data visualizations for the global course on sustainable development, Ages of Globalization, as a part of the SDGs Today team within the United Nations Sustainable Development Solutions Network (SDSN). Her interests in GIS span from leveraging sustainable practices in disaster recovery to advocating for data democratization and expanding access to GIS tools. She is passionate about using GIS to drive meaningful, inclusive change and is excited to bring these perspectives to EEJ!







# UPCOMINGEVENTS



## CLIMATE WEEK NYC

September 22-29, 2024 | New York, NY

Climate Week NYC is the largest annual climate event of its kind, bringing together over 600 events and activities across the City of New York – in person, hybrid and online. Each year, business leaders, political change makers, local decision takers and civil society representatives of all ages and backgrounds, from all over the world, gather to drive the transition, speed up progress, and champion change that is already happening.

Climate Week NYC is hosted by Climate Group, an international non-profit whose purpose is to drive climate action, fast.

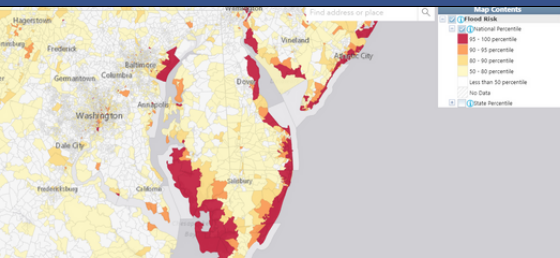
Climate Group hosts the official program during the week that brings together the most senior international figures from business, government, civil society and the climate sector.

This year, Climate Week NYC is being held from September 22-29, 2024. The event takes place every year in partnership with the United Nations General Assembly and is run in coordination with the United Nations and the City of New York.

Learn more and register for events [HERE](#).



## ADDITIONAL READINGS & RESOURCES



### EPA Office Hours: Learning the EPA EJScreen Tool

The EPA is holding a set of “Office Hours” for users of EJScreen, the EPA’s environmental justice screening and mapping tool. These office hours will be a chance for the public to talk with EPA EJScreen experts about how to use and apply the tool, among other questions. EPA will hold these sessions on a bimonthly basis. The next session is October 16, 2024 at 12 p.m. EST.

For more information, click [HERE](#).

### SCRAP TIRES WEBINAR PART 2: POLICIES AND INNOVATIVE SOLUTIONS TO ADDRESS SCRAP TIRES

The Border 2025 Goal 3 workgroup is planning a two-part webinar series on scrap tire management. This Part 2 session, with simultaneous English-Spanish interpretation, will build upon session 1 to outline state policies and regulations in Mexico, and highlight innovative projects and case studies for scrap tire reuse. The webinar is on September 30, 2024, from 2-4 p.m. (Central Time).

Register [HERE](#).



## 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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