

SATELLITE DATA FOR ENVIRONMENTAL JUSTICE



What is NASA HAQAST & SD4EJ?

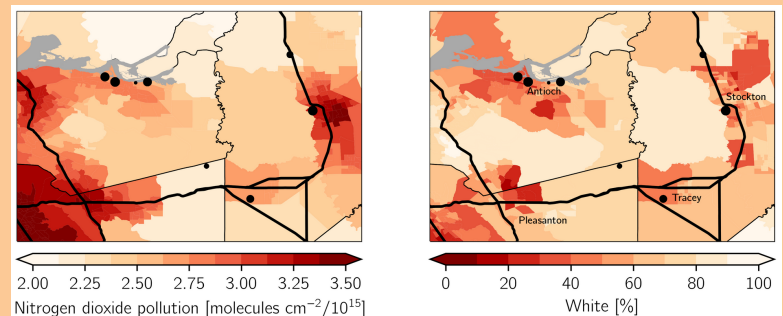
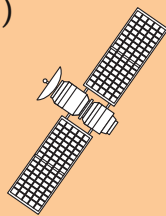
[NASA Health and Air Quality Applied Sciences Team \(HAQAST\)](#) is a collaborative team that works in partnership with public health and air quality agencies across the globe to use NASA data and tools for the public benefit. Satellite Data for Environmental Justice (SD4EJ) is a NASA HAQAST Tiger Team whose goal is to integrate satellite data into environmental justice (EJ) screening & mapping tools.

How can we use Satellite Data to Advance EJ?

Satellite data have strength in spatial coverage to comprehensively identify and target EJ communities for investments and/or remediation. Satellite data have the ability to discern differences in heat, pollution, and other environmental hazards within individual census tracts.

SD4EJ provides satellite data expertise for the following indicators and more:

- Heat/temperature
- Light at Night
- Fine particulate matter (PM2.5)
- Nitrogen dioxide (NO₂)
- Ozone (O₃)
- Formaldehyde (HCHO)



Recently-launched satellite instruments allow us to better understand the co-location of high levels of nitrogen dioxide, an air pollutant hazardous to health, and communities of color. In this image, Stockton, California and surrounding cities are featured, and large industrial facilities are shown with black dots and highways with black lines.

All are welcome to attend our **monthly team meetings** to exchange information and build a community of practice about using satellite data for EJ applications.

When: Every first Wednesday of the month

Time: 11am-12:30pm EST

Where: Zoom

Contact us to attend our monthly meetings or for more information/how to get involved!

Gaige Kerr | gaigekerr@email.gwu.edu | Principal Coordinator