



Application for NIHHIS Urban Heat Island Mapping | CAPA Heat Watch 2022

CAPA Strategies, in partnership with the National Integrated Heat Health Information System (NIHHIS), is now accepting applications from organizations interested in participating in the 2022 cohort of NIHHIS-CAPA Urban Heat Island mapping campaigns. The National Oceanic and Atmospheric Administration (NOAA) has provided funding to CAPA Strategies to support campaigns in approximately 8-10 communities in 2022. Your responses to the following questions will help us understand how your community would benefit from Urban Heat Island mapping, and will be used to prioritize support for the campaigns.

Applications for support are due by 5PM Eastern on Friday, January 14, 2022. We intend to notify applicants of the outcome by early February, 2022.

For additional information, including application review criteria, please review the contents of the following page: <https://nihhis.cpo.noaa.gov/Urban-Heat-Island-Mapping/UHI-Campaigns>

Part 1

Email

Last Name

First Name

Affiliation/Organization

Position/Title

In what city/county and state (or if outside the U.S., what city and country) do you intend to run an Urban Heat Island (UHI) mapping campaign? (e.g. Harris County, TX)

What is the approximate total area (in square miles) a UHI mapping campaign in your region would cover?

Will you be the primary contact, and your organization the lead organization for this local campaign? If not, please specify with full contact information.

For successful applicants, NOAA covers the price charged by CAPA Strategies for a basic Heat Watch campaign (~\$12K to map up to 100 sq mi, not inclusive of volunteer subsidies or refreshments; campaigns larger than this cost more).

Can your organization or partner organizations provide matching funds (a portion of the ~\$12K) to offset the cost of a campaign, and if so, at what amount? If you don't have firm funding yet but



expect to later, you may note that. Matching funds are not required, but help us reach more communities. [Note: The price reflected is for U.S. cities- the cost may vary for international cities]

During the campaign, in what ways do you anticipate local partners in your city can support mapping participants and engage community members in implementing solutions to extreme heat? (Check all that apply):

- Offering a stipend/money for gas
- Cold water
- Food
- Child care
- Community events
- Other

What in-kind support will you provide?

New in '22- Additional monitoring products:

In response to requests from campaigners in previous years, we will pilot additional monitoring products in a few cities. While the standard campaigns provide a good snapshot of how temperatures vary in a city/county on a hot day, adding stationary sensors to the campaign can provide a longitudinal look at how these spatial patterns also vary over time under varying weather conditions. Deploying stationary sensors comes with several additional responsibilities, however. Local campaign organizers will be expected to ensure they have cleared their plans to mount sensors with the city/county/police, and they will have to prepare and mount ~20 sensors (provided by CAPA Strategies) within trees or on other surfaces. They will also have to collect these sensors several weeks later and return them to CAPA Strategies for analysis. NOAA plans to cover the cost of acquiring the stationary sensors to pilot monitoring in 2 campaigns. The pilot communities will be selected based on climate, existing coverage of sensors, and other scientific factors.

Please indicate below if you would be interested in using additional monitoring products during the course of the campaign - and willing to commit the extra time and effort required to include them (see above). You may also suggest other measurements you would like to see incorporated into the campaigns in the future. (Optional)

- Stationary temperature & humidity sensors [we plan to pilot this in 2 U.S. cities in 2022]
- Air quality monitoring as part of the mobile field campaign
- Other

If you checked any of the boxes in the previous question, please tell us why you are interested in these monitoring products (i.e. do you have a specific concern in mind?)



Part 2: Prioritization Questions

Your responses to the following questions will help reviewers prioritize funding for communities to perform the Heat Watch mapping campaign. Please limit responses to each question to ~2000 characters. Incomplete or non-confirming applications may not be considered.

[Statement of Need] Please describe briefly the challenges faced by your community as a result of urban heat, noting how and why understanding the distribution of heat is important.

[Goals & Anticipated Outcomes] What are your goals for conducting a UHI campaign in your region? How do you plan to use the map and data to improve community resilience to extreme heat?

[Effective Partnerships] Describe the major partnerships you have developed or could develop to support a heat campaign in your region. For each group you list, please characterize the current status of your partnership (for example: you plan to approach them, you've received verbal confirmation of their intent to partner, you have a formal commitment of volunteer time and/or funding from them).

[Volunteer Engagement & Support] How do you plan to recruit, engage, and support diverse volunteers for the campaign with your partners?

New in '22: Justice40 Initiative

Justice40 - The NIHHIS Urban Heat Island mapping program is now a covered program under the Biden Administration's Justice40 initiative. As such we are required to track and report on the allocation of benefits to Environmental Justice (EJ) communities. Tracking and reporting requirements have not yet been finalized, but we anticipate that communities involved in this program in 2022 will be required to assist with tracking and reporting, and that communities will use readily available demographic information (CDC SVI, EIG's Distressed Communities Index, or EJ Screen) to ensure adequate coverage of EJ communities. Environmental Justice will be another factor that we consider in prioritizing applications. You can read more about this at [\[https://nihhis.cpo.noaa.gov/Urban-Heat-Islands/Mapping-Campaigns\]](https://nihhis.cpo.noaa.gov/Urban-Heat-Islands/Mapping-Campaigns)

[Environmental Justice] How are you planning to use this campaign and its results to enhance environmental justice initiatives in your community?

Geographic and Urban Diversity

This portion will be evaluated based on the location of the campaign. We consider this to ensure broad coverage of the mapping program to get a representative sample of different climates and urban forms.

Is there additional information you'd like to share regarding your plans for a UHI mapping campaign? Please be brief; this question will not be used for prioritization.