



# Climate Program Office Review

May 24-26, 2022

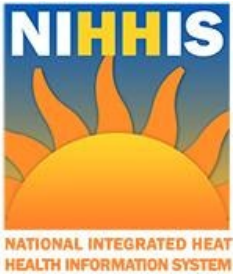
Pre-Recorded Presentation

Supporting Review Activity Area

#4: Integrated Information Systems, Risk Areas Initiative

## **NIHHIS Overview**

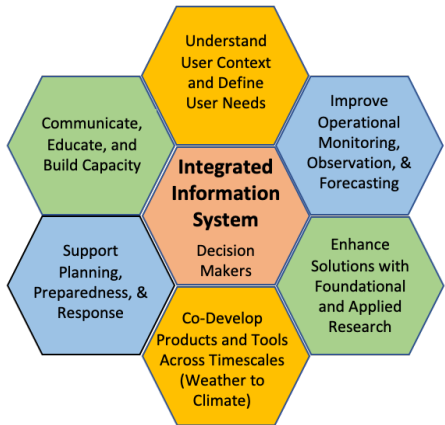
Juli Trtanj, NOAA One Health and Integrated Climate  
Research Lead



# Overview

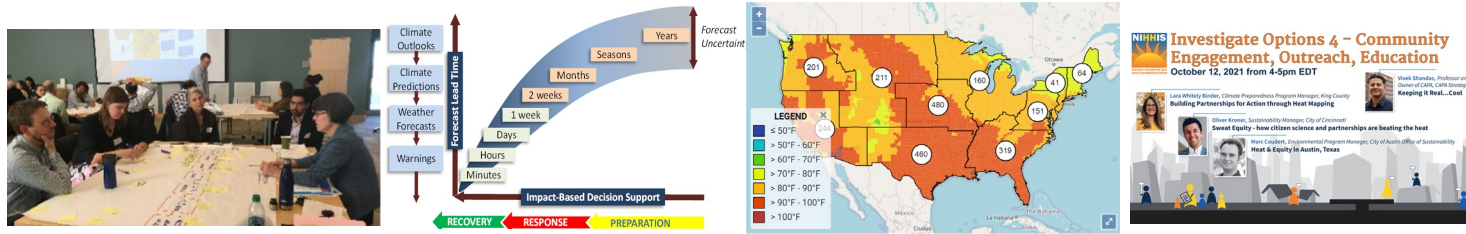


- **Purpose:** To inform the panel about the Climate and Health Program's major activity—The National Integrated Heat Health Information System (NIHHIS)
- **Context:** NIHHIS is an integrated information system housed under the Director's Office in CPO, and part of the Climate and Health Program. NIHHIS is an integrated approach to providing expertise and decision-support services, on multiple time scales, designed to **build resilience and reduce heat-related illness and death.**



- **NIHHIS** was **established in 2015** under the National Security Council Infrastructure Working Group and launched via White House announcement
- Present focus stems from **the NOAA Strategic Plan, CPO's Climate and Health Program Strategy, and the NOAA One Health Strategy**
- **H.R.5296 /S.2510 - Preventing HEAT Illness and Deaths Act of 2021** introduced in 2021, would formalize NIHHIS and authorize \$200M
- NIHHIS is a covered program under the **Justice40 Initiative**
- CPO provides ~\$850K/year for labor and program activities
- 3 NIHHIS Staff members (2 CPO, 1 UCAR)
- NIHHIS consists of federal partners and interagency working groups, state, local, tribal and non-governmental partners, academic institutions, and more.

The program provides five key functions in service to the nation:



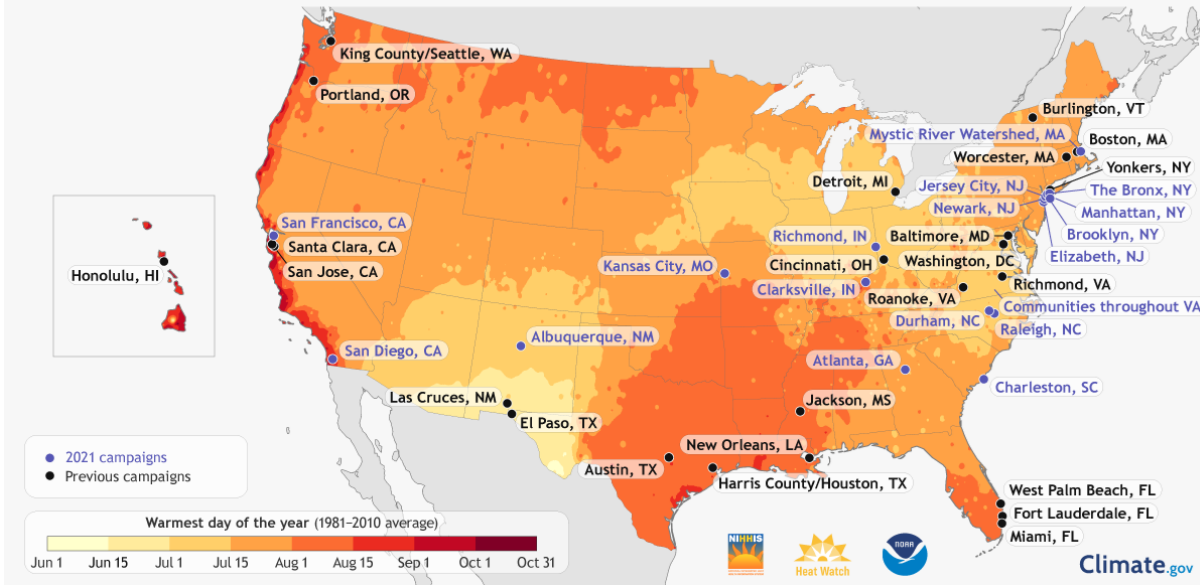
<p><b>Define demand</b> through sustained relationships to understand context and need</p>	<p>Co-develop and provide <b>integrated information</b> across time scales</p>	<p><b>Understand, observe, monitor, surveil, forecast, and predict</b></p>	<p><b>Communicate and engage</b> across agencies, NGO, academia and private sector</p>	<p>Adaptive actions: <b>co-learning, sharing information, fostering equitable and just practices</b></p>
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# Key Accomplishments (FY17-21)



## Urban Heat Island Mapping

### NOAA Urban Heat Island Mapping Campaigns: All Locations, 2017-2021



## Extreme Heat Risk Initiative Awards:

Heat Plan Integration for Resilience Scorecard  
*University of Arizona*

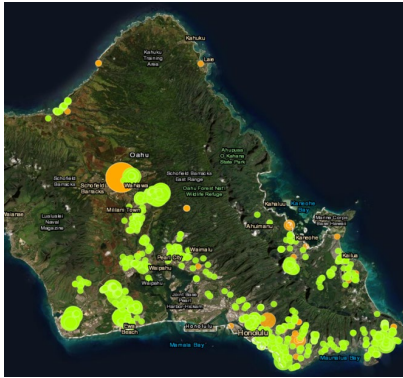
Seeing Heat Risk Through an Equity Lens  
*Johns Hopkins University*

Urban Climate Science for Heat Decision-Making  
*University of Texas at Austin*

Exposure-based Extreme Heat Vulnerability Mapping  
*University of Vermont*

Improving Temperature Simulations Near Water  
*Desert Research Institute*

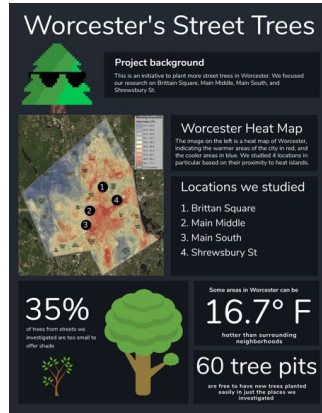
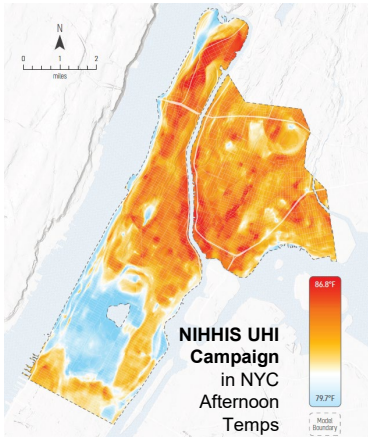
# Key Accomplishments (FY17-21)



**NIHHIS Urban Heat Island Mapping Campaigns are citizen science, community led projects that inform decision-makers and actions:**

Clockwise from upper-left:

- 10,000 Trees Honolulu (NGOs)
- Houston Resilience Plan (city & county government)
- Worcester Polytechnic Institute Bachelor of Science Qualifying Student Project (educational institutions)
- Afternoon temperature report from the 2021 NYC UHI campaign





# Key Accomplishments (FY17-21)



Heat Watch Campaign Progress Update for July 28

NOAA Climate.gov @NOAAClimate - May 20  
ICYMI: @NIWSCPC released the summer outlook. Are scorchers likely for your area? #HeatHealth climate.gov/news-features/...

REVIEW PAPER | Published: 02 February 2019

Activity modification in heat: critical assessment of guidelines across athletic, occupational, and military settings in the USA

[Yuri Hosokawa](#), [Douglas J. Casa](#), [Juli M. Trtnaj](#), [Luke N. Beval](#), [Patricia A. Deuster](#), [Sarah M. Giltz](#), [Andrew J. Grundstein](#), [Michelle D. Hawkins](#), [Robert A. Huggins](#), [Brenda Jacklitsch](#), [John F. Jardine](#), [Hunter Jones](#), [Josh B. Kazman](#), [Mark E. Reynolds](#), [Rebecca L. Stearns](#), [Jennifer K. Vanos](#), [Alan L. Williams](#) & [W. Jon Williams](#)

NIHHIS Interagency Working Group delivers information and products to decision makers across all timescales.

*Accomplishments include:*

- Developed the NIHHS Portal (left)
- Led 2 consecutive major national heat season communications campaigns
- Hosted 2 workshops and developed a paper with OSHA, NIOSH, EPA, NOAA, DOD and the Korey Stringer Institute on activity modification guidelines



# Key Institutional Accomplishments (FY17-21)



Started drafting 5-year NIHHIS strategic plan (2021)

Developed the Climate and Health Strategy for CPO

Novel partnerships with private sector (*ESRI, Global Cool Cities, Extreme Heat Resilience Alliance, Wellcome Trust, PAHO*)

New federal partnerships (NPS, VA)

Briefings to Congress

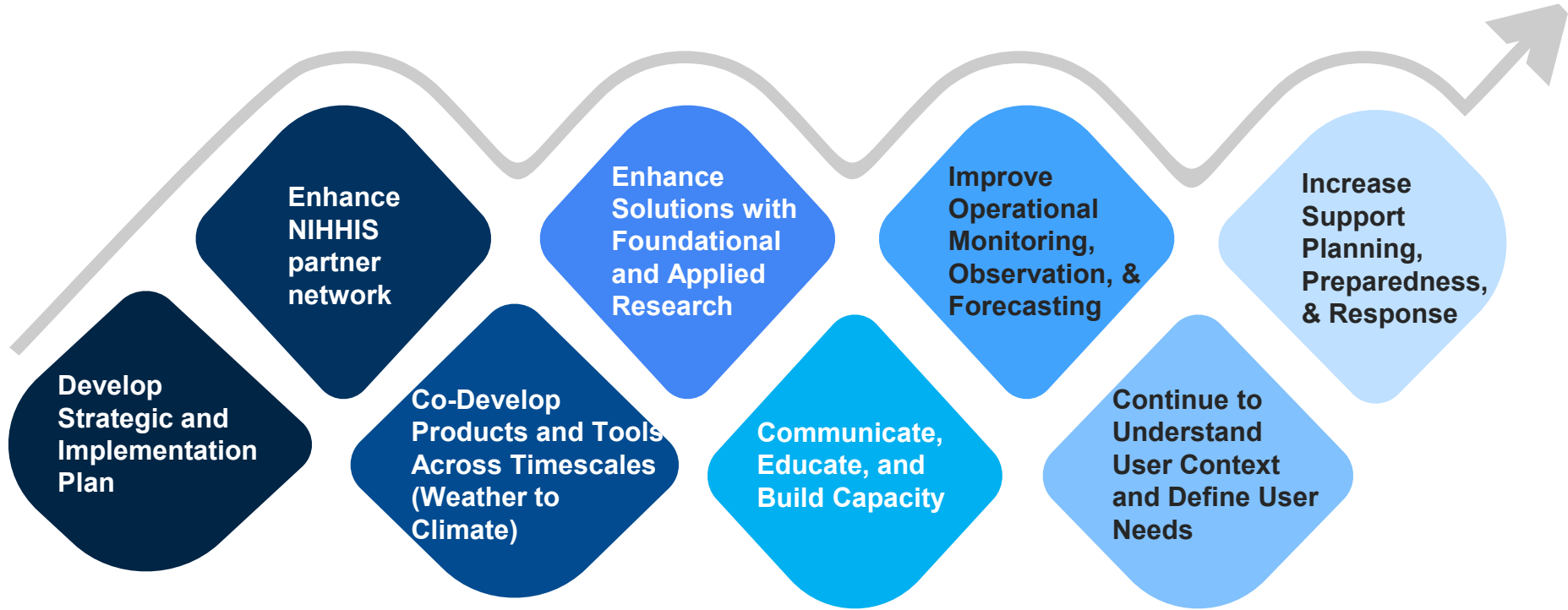
Leadership and presence in the White House Interagency Group on Extreme Heat

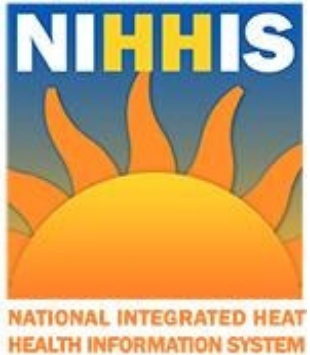
Additional leadership includes:

- Launched Global Heat Health Information Network Workshop
- Part of the Heat & COVID-19 task force
- Presence in President's Task Force for Environmental Health
- International outreach in India, Chile, Grenada, Public Health England, Germany
- AMS & AGU conferences



# Strategic Lookahead





# Thank you!

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NIHHIS Portal: <https://nihhis.cpo.noaa.gov/>

National Integrated Heat Health  
Information System Youtube Page



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