



City of Dallas

Dallas Urban Heat Island Mapping Study

**Parks, Trails & Environment
Committee**

September 5, 2023

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Office of Environmental Quality & Sustainability



August 5, 2023



Study Participants



- 7th year of the study, mapping over 70 cities
- NOAA (National Oceanic and Atmospheric Administration)
- NIHHIS (National Integrated Heat Health Information System)
- CAPA Strategies
- City of Dallas, Office of Environmental Quality
- Report from CAPA Strategies & NOAA in about 70 days (mid October)



Purpose & Benefits of UHI Study



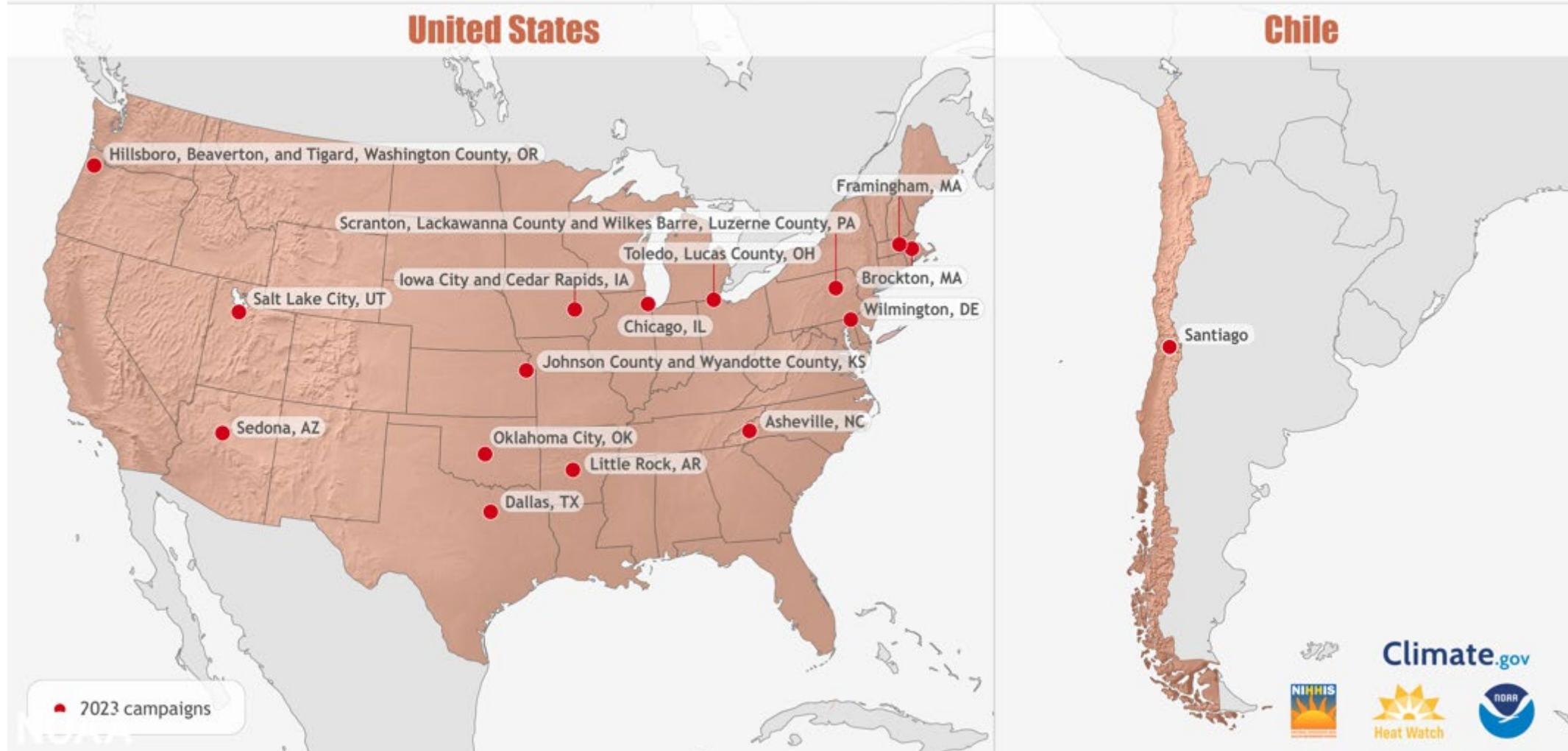
- Purpose: Looking for equitable ways to implement cooling solutions in our communities, and identify the hotspots
- The sensors record temperature, humidity, time and the volunteers' location every second
- Helps local decision-makers take actions to reduce the health impacts of extreme heat, which often target the most vulnerable
- Tells us how to prepare for extreme heat, and provides possible solutions: such as:
 - ✓ Enhanced tree planting strategies,
 - ✓ The location of new public shelters for cooling relief,
 - ✓ Develop heat action plans
 - ✓ Educate residents and policymakers
 - ✓ Inform new research



2023 Cohort

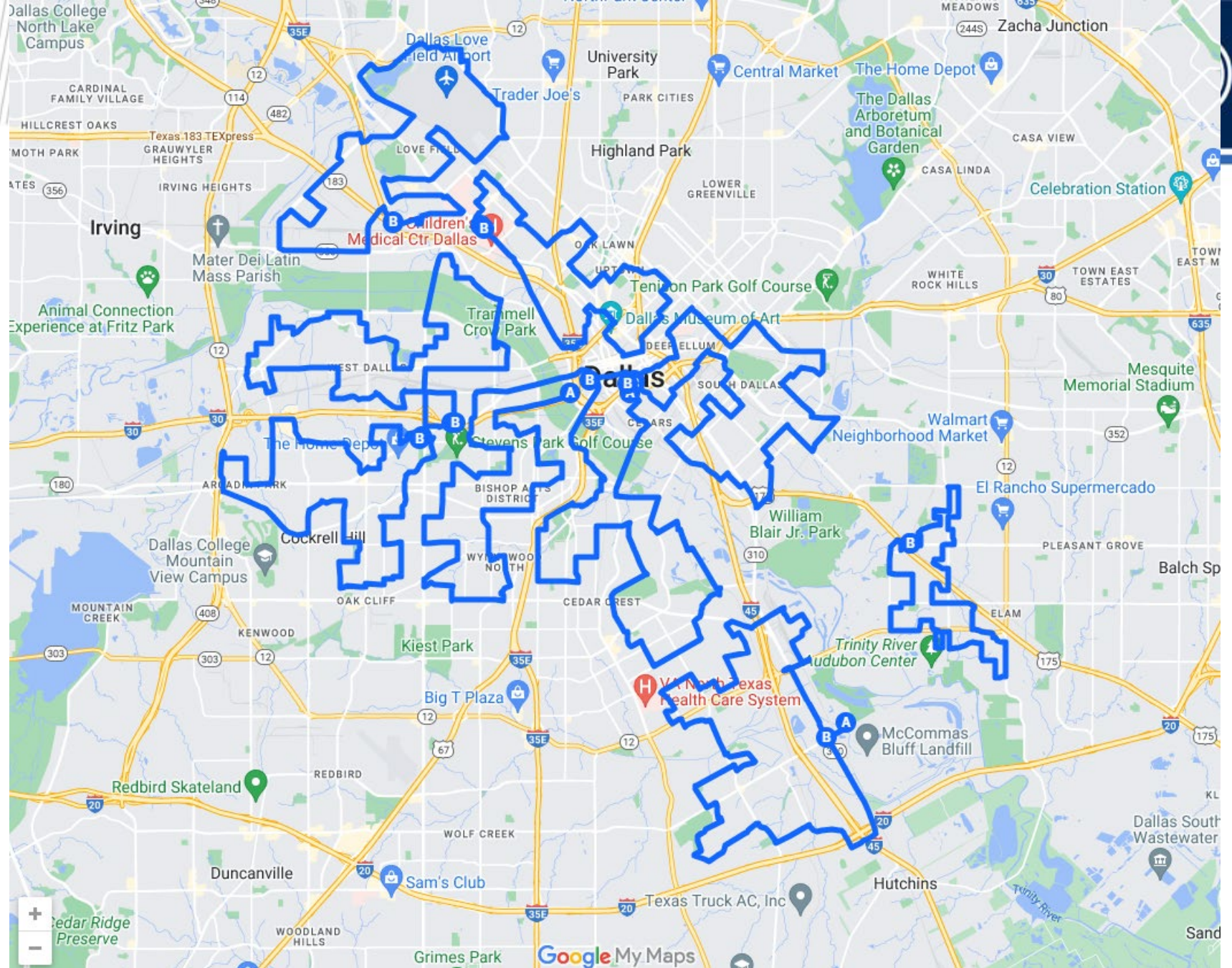


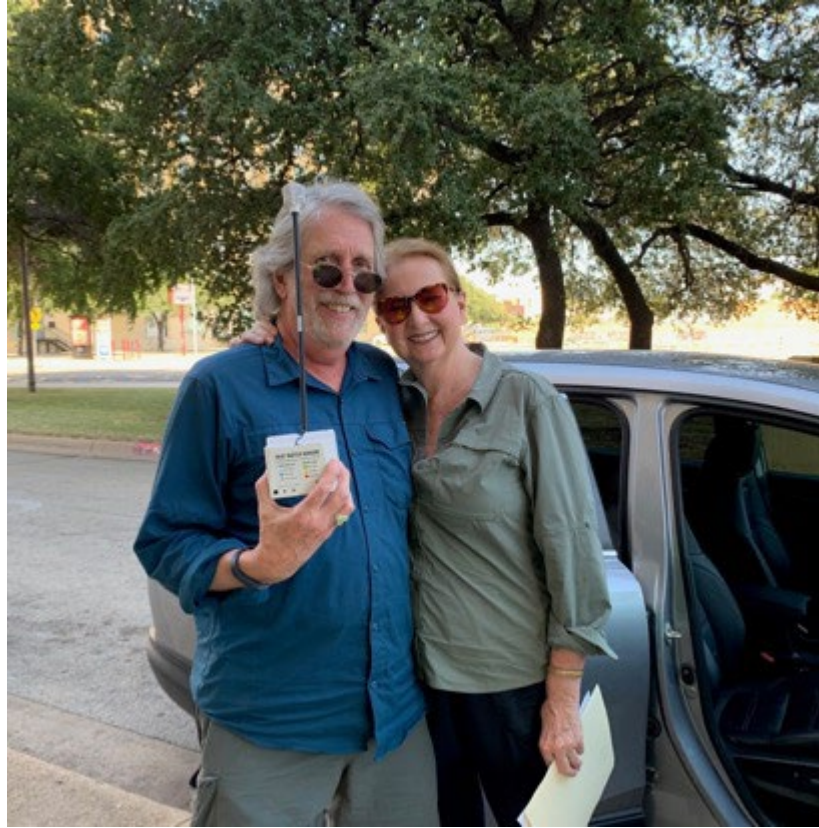
NOAA Urban Heat Island Mapping Campaigns: 2023 Locations



City of Dallas Study Area

- Nine routes – 70 volunteers
- Each Route ~ 20 miles
- Driver & navigator for each route
- Data recorded for one hour
- Each route driven three times on the day of the study
- First trip 6:00 am to 7:00 am
- Second trip 3:00 pm to 4:00 pm
- Third trip 7:00 pm to 8:00 pm





Our Volunteers

Includes couples, individuals, students, city staff, even commissioners

Media coverage:

<https://www.cbsnews.com/texas/news/dallas-leaders-volunteers-team-with-noaa-to-uncover-citys-hot-spots/?intcid=CNM-00-10abd1h>



Contact Information



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Dallas Environmental
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