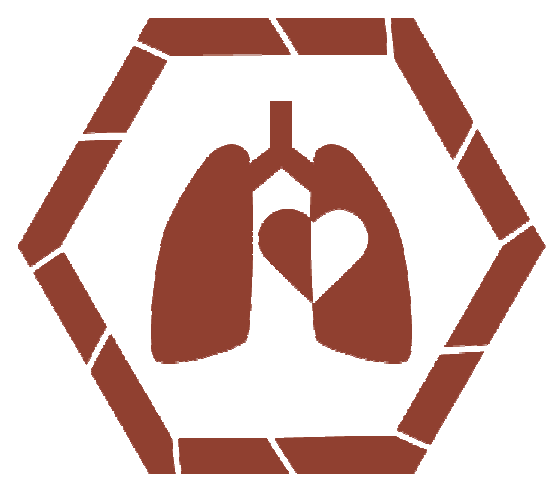
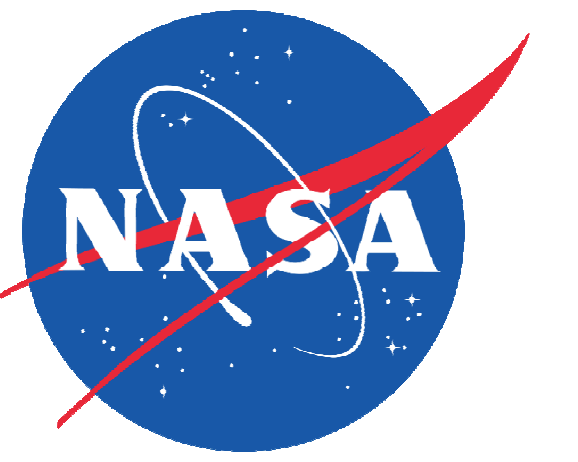




The NASA DEVELOP National Program: Science Serving Society



About DEVELOP



DEVELOP bridges the gap between NASA Earth Science and society, building capacity in both its participants and end-user organizations to better prepare them to handle the environmental challenges that face society.

*DEVELOP is a dual-capacity building program:
Individuals and Institutions*

Who Participates in DEVELOP?



DEVELOP Project Characteristics

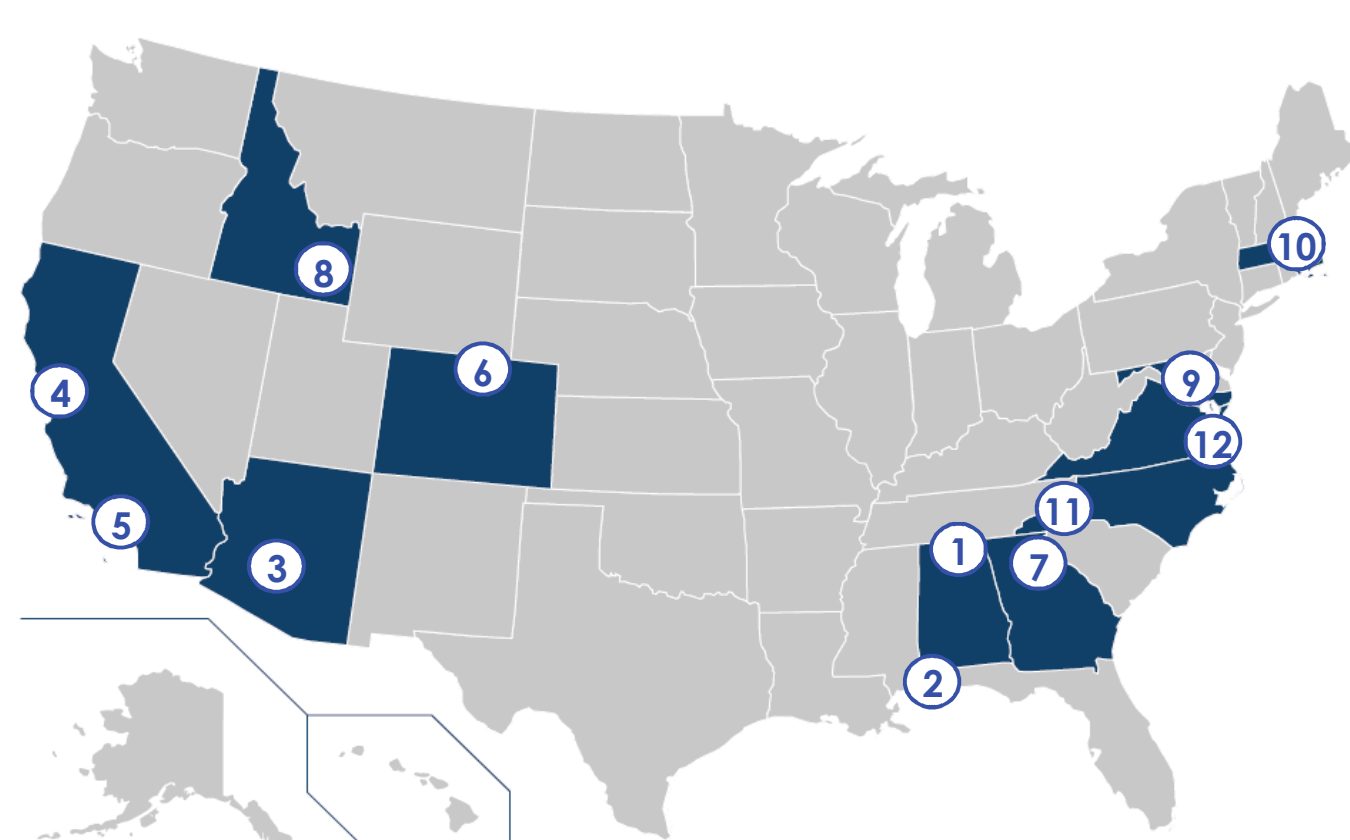
55-65 projects are conducted each year – at their core they share these characteristics:

- ▶ Highlight the applications and capabilities of **NASA Earth observations**
- ▶ Address **community concerns** relating to decision-making for real-world environmental issues
- ▶ Partner with organizations who can benefit from using NASA Earth observations to **enhance decision-making** by providing decision support tools
- ▶ Align with at least one of the eight NASA Applied Sciences Program's thematic **Application Areas**
- ▶ Research is conducted by **interdisciplinary teams** under the scientific guidance of DEVELOP Science Advisors and Mentors from NASA and partner organizations
- ▶ Create a comprehensive set of **deliverables**
- ▶ Each individual project is implemented in a **10-week term**, with a maximum project length of 3 terms

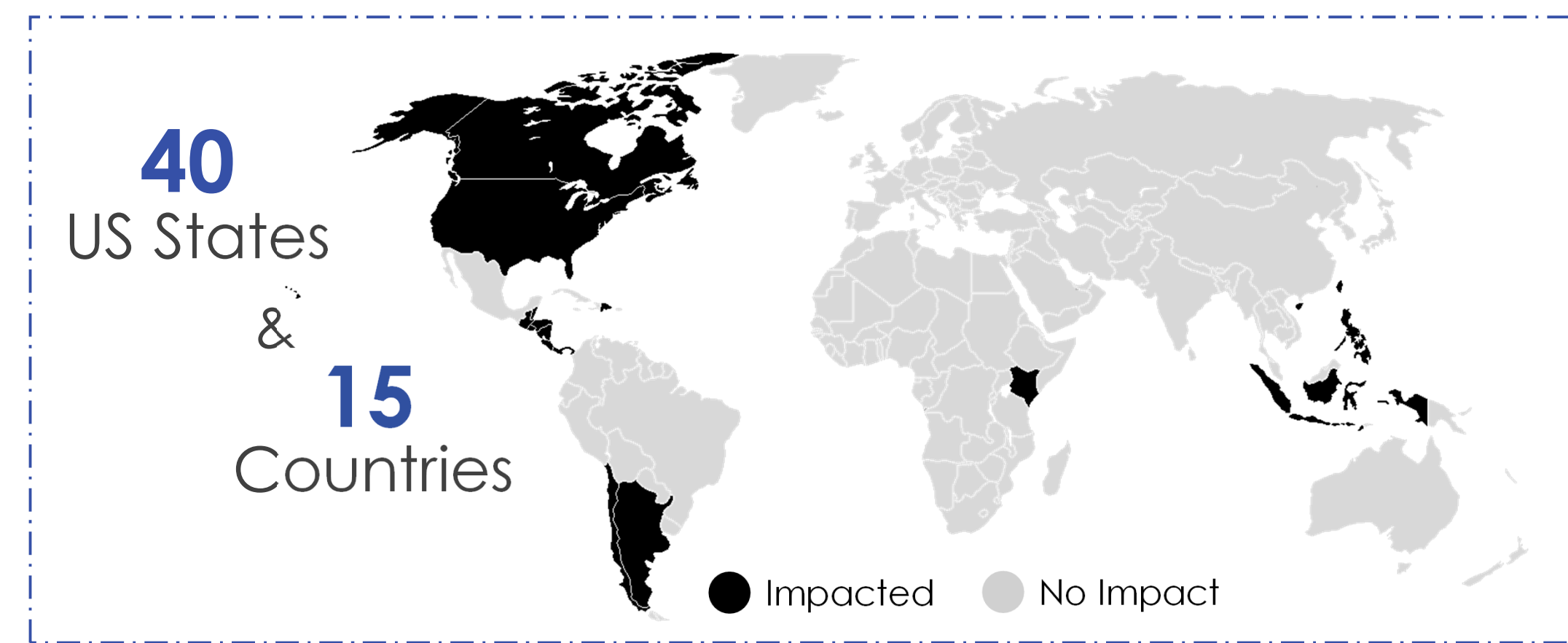
DEVELOP Locations

Locations

- 1 Alabama – Marshall (Huntsville, AL)
- 2 Alabama – Mobile (Mobile, AL)
- 3 Arizona – Tempe (Tempe, AZ)
- 4 California – Ames (Moffett Field, CA)
- 5 California – JPL (Pasadena, CA)
- 6 Colorado – Fort Collins (Fort Collins, CO)
- 7 Georgia – Athens (Athens, GA)
- 8 Idaho – Pocatello (Pocatello, ID)
- 9 Maryland – Goddard (Greenbelt, MD)
- 10 Massachusetts – Boston (Boston, MA)
- 11 North Carolina – NCEI (Asheville, NC)
- 12 Virginia – Langley (Hampton, VA)



DEVELOP 2019 Overview



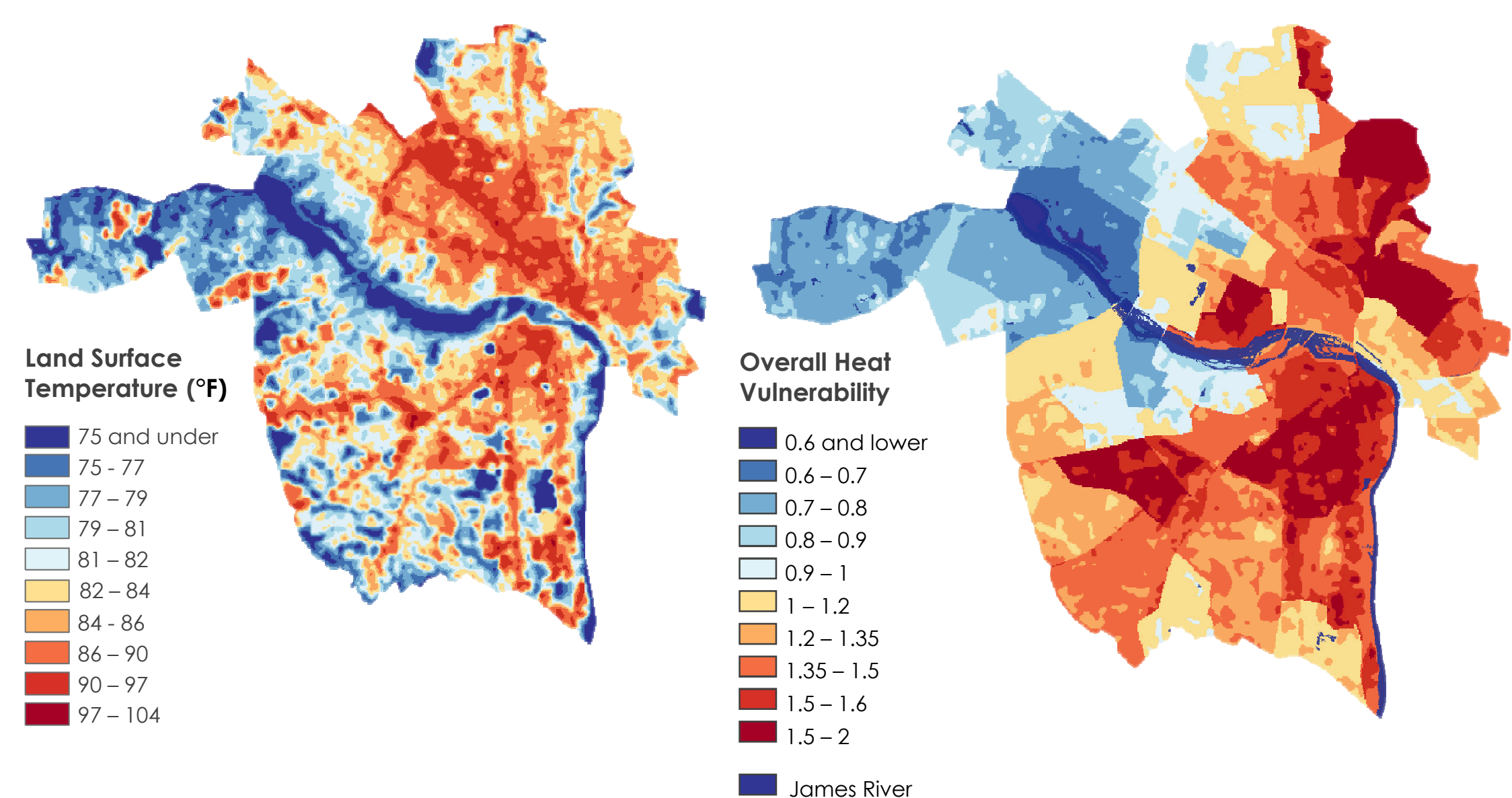
225 Participants

56 Feasibility Studies

135 Partner Organizations

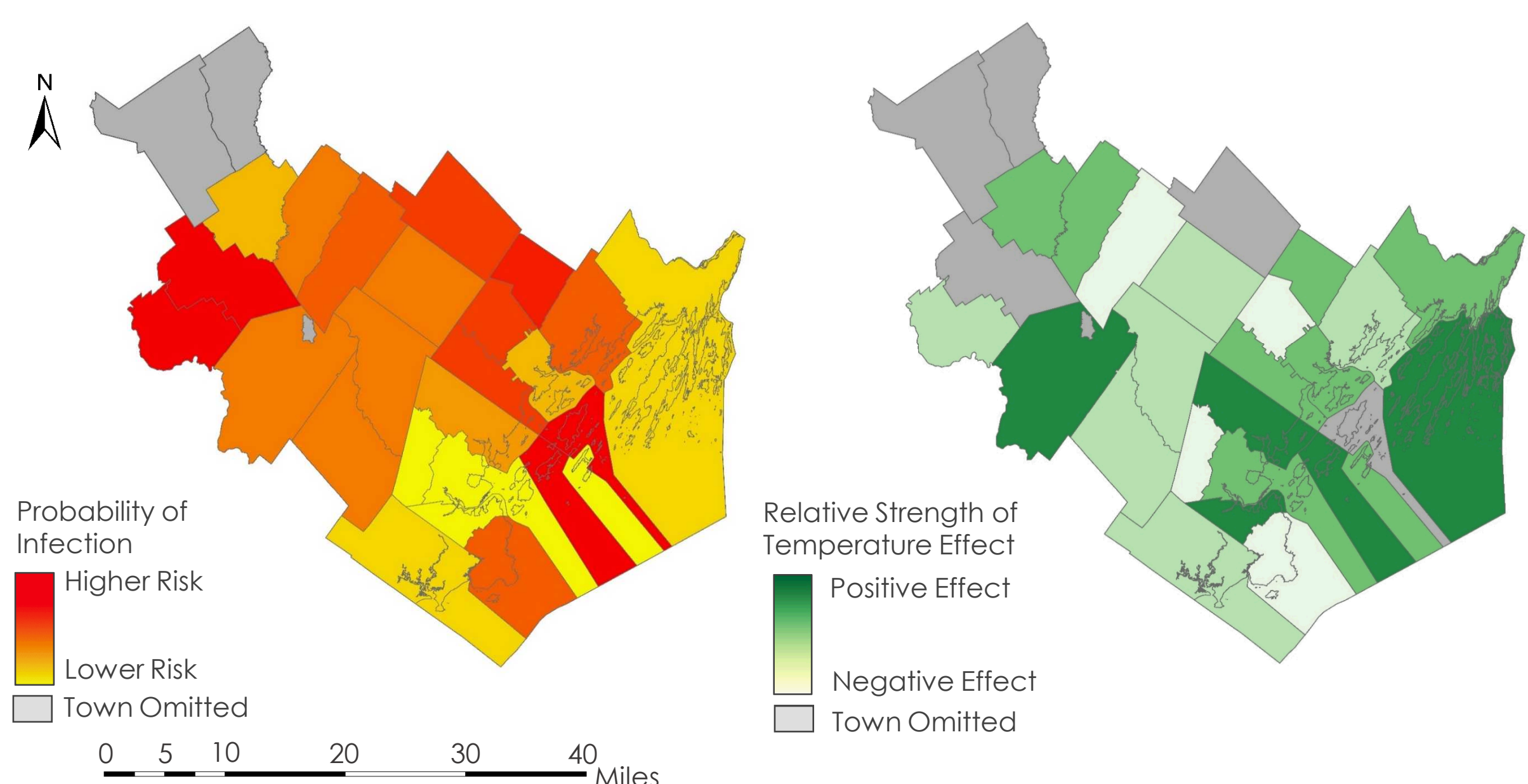
Example 1: Richmond Health & Air Quality

Partnering with a local non-profit, Groundwork RVA, the team analyzed maps of land surface temperature, land cover change, and heat vulnerability. Overall heat vulnerability was assessed as the census tract level for the city of Richmond, Virginia, using the following themes: age, health, minority status and socioeconomic status.



Example 2: Southern Maine Health & Air Quality

This project partnered with the Maine Medical Center Research Institute and the Maine Vector-borne Disease Working group to evaluate land cover and tick habitat suitability examine tick-borne illness risk in southern Maine. The higher amount of edge features between forest and urban areas was indicative of higher infection risk.



Want to Learn More?

- ▶ <https://develop.larc.nasa.gov>
- ▶ NASA-DL-DEVELOP@mail.nasa.gov

DEVELOP

NASA DEVELOP National Program

DEVELOP Health & Air Quality Applications