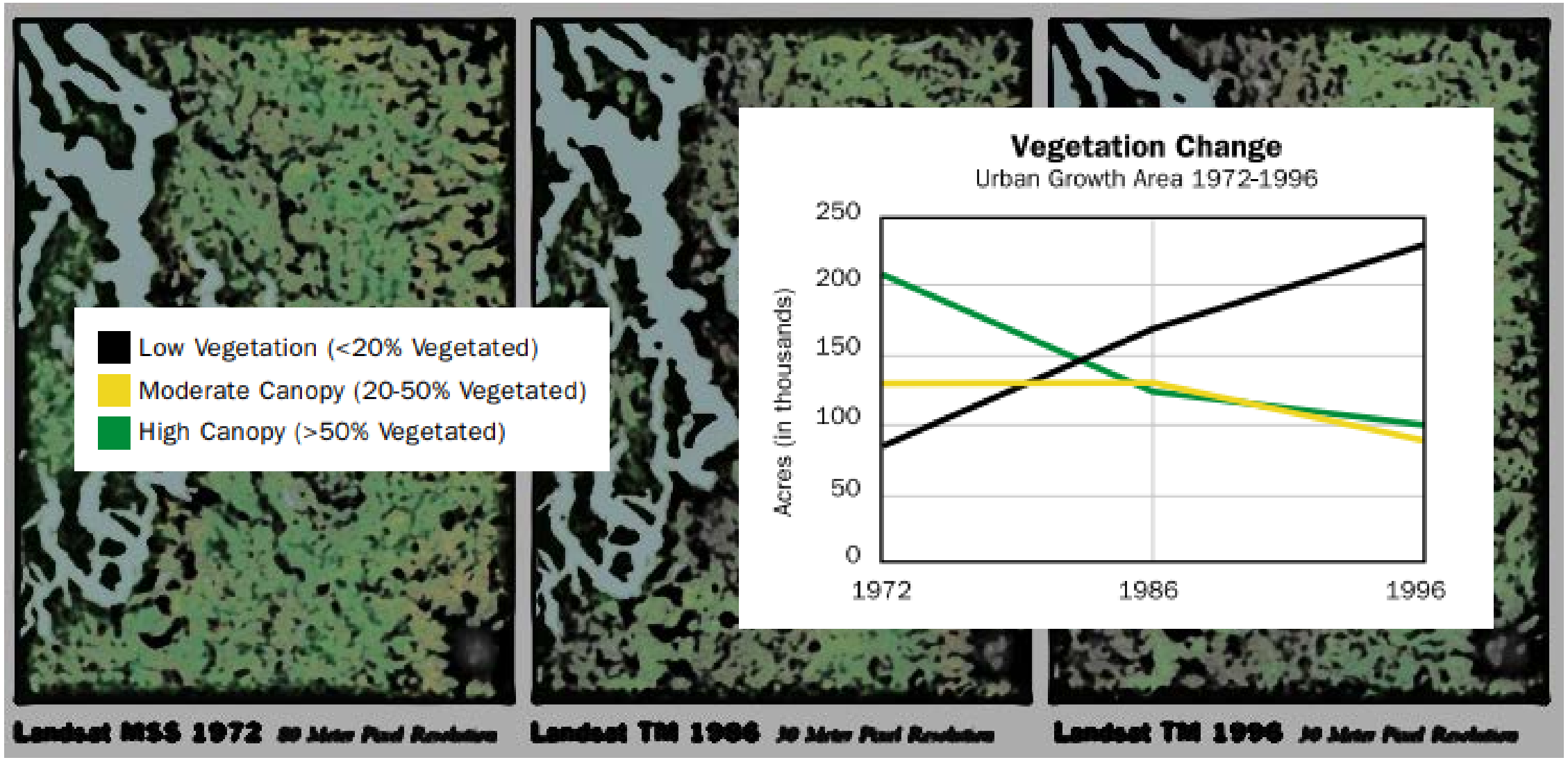
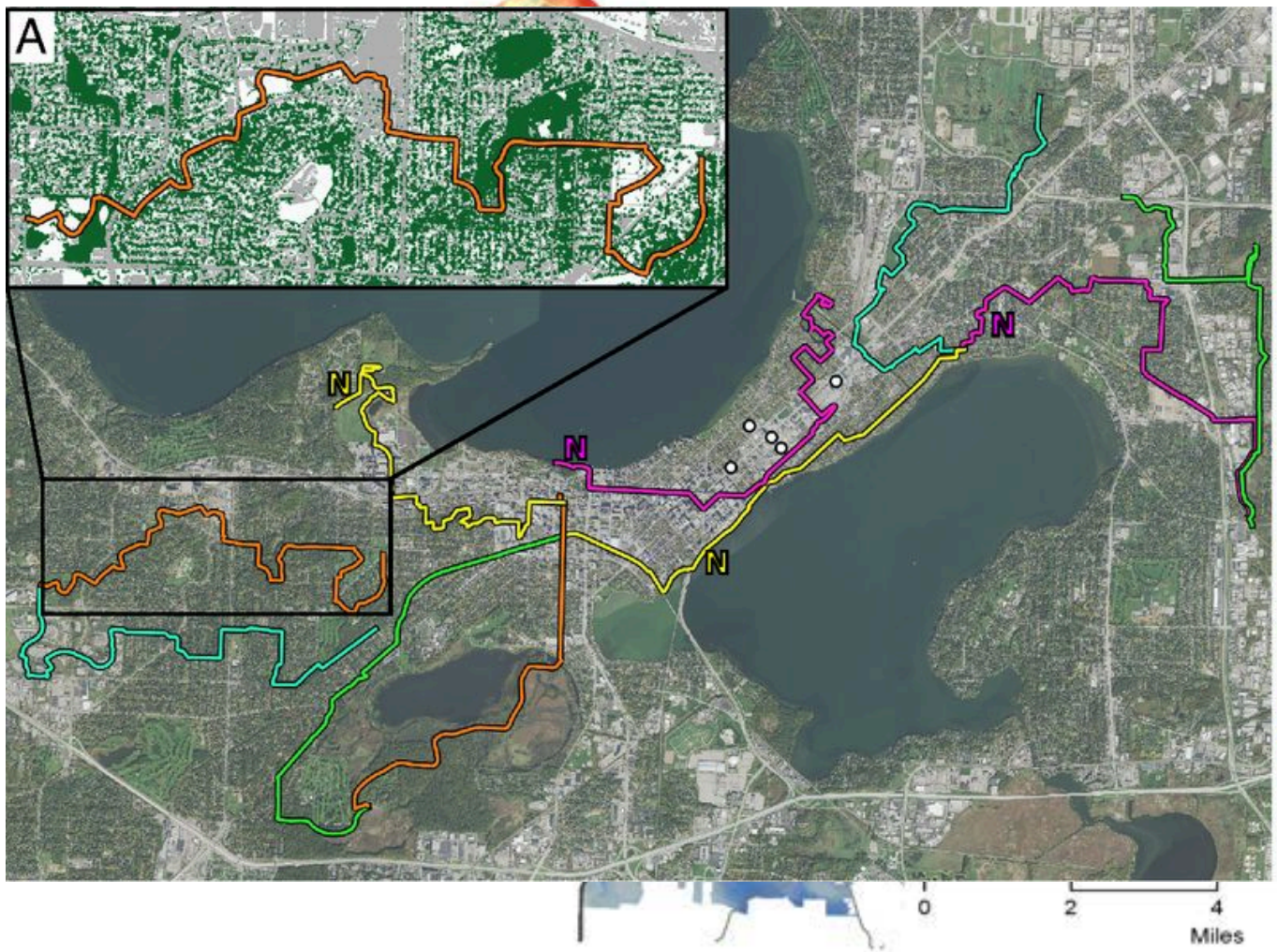
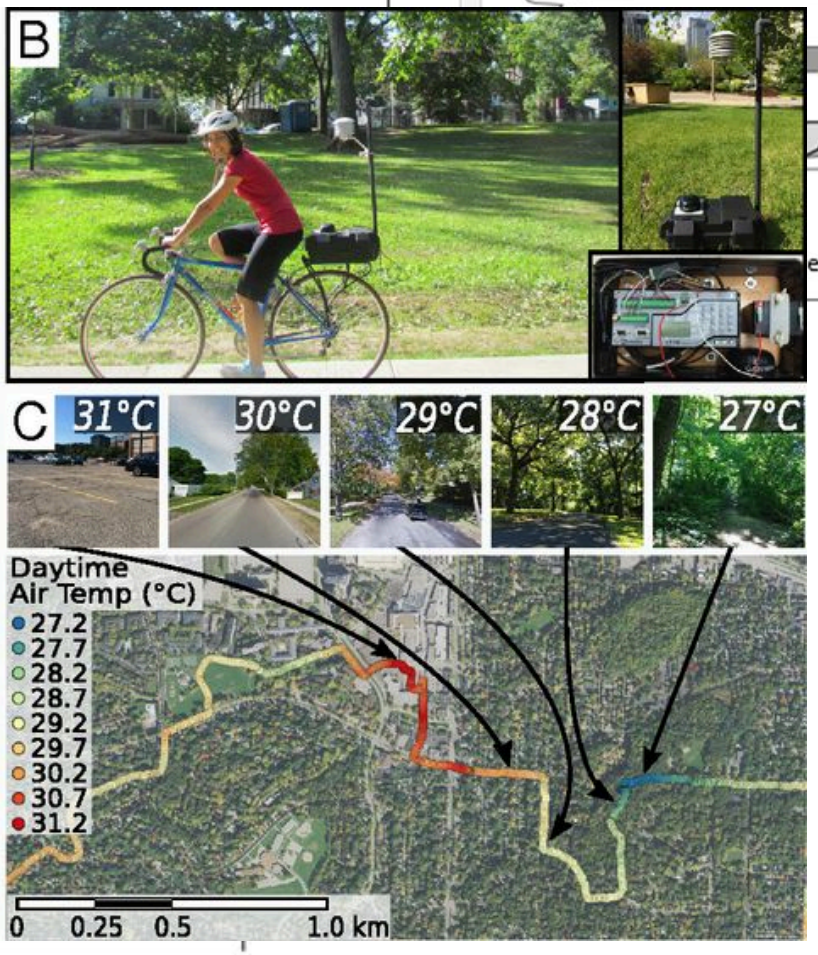
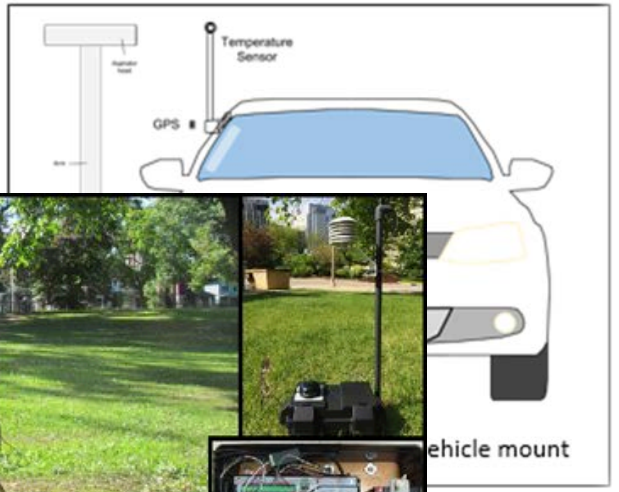

Low Vegetation (<20% Vegetated)
Moderate Canopy (20-50% Vegetated)
High Canopy (>50% Vegetated)
Vegetation Change
Urban Growth Area 1972-1996
Acres (in thousands)
250
200
150
100
50
0
1972
1986
1996
Landsat MSS 1972
Landsat TM 1986
Landsat TM 1996

forest canopy and water cools urban heat islands

City of Seattle


A
N
N
N
N
0
2
4
Miles


B
C
31°C
30°C
29°C
28°C
27°C
Daytime
Air Temp (°C)
27.2
27.7
28.2
28.7
29.2
29.7
30.2
30.7
31.2
0
0.25
0.5
1.0 km
8


Temperature Sensor
GPS
ehicle mount

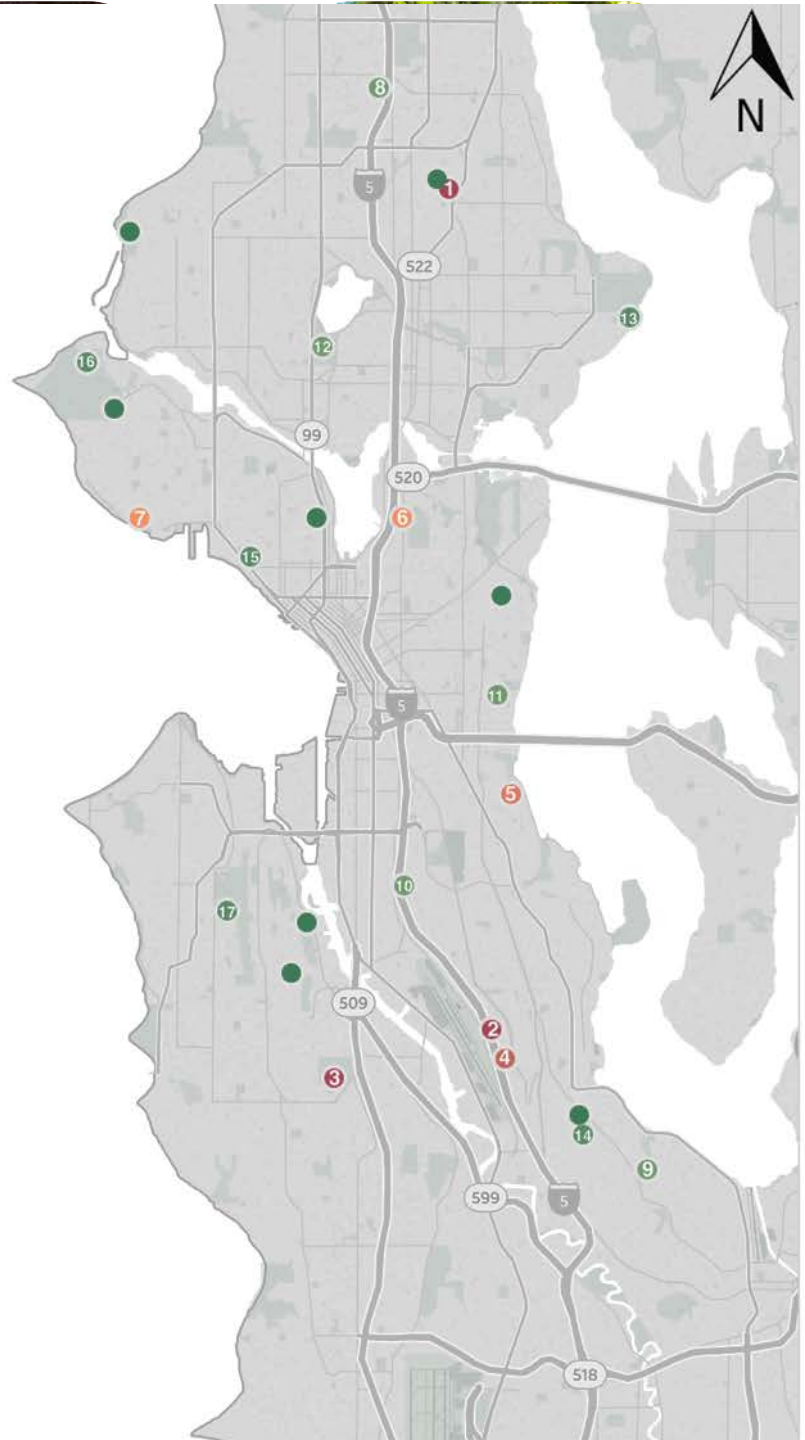
Equity Impacts of Climate Change

"Climate change victimizes the victimized. It oppresses the oppressed.... It cuts along class lines, racial lines, generational lines and socioeconomic lines. So the worse off you are, the more marginalized you are, the worse you're going to suffer from what's coming."

- Nathaniel Rich, author of Losing Earth: A Recent History

As, Al, Cd, Co, Cr, Cu, Fe, Mo, Ni, Pb

Dot map indicates sample locations with elevated moss tissue concentrations for several of the ten most toxic metals in the dataset. Numbers in filled circles link locations to the element list below.



Results show hot-spots of heavy metal pollution in epiphytic mosses linked transportation sector such as exhaust emissions, brake and tire attrition, and lubricant degradation

Element list (selected locations):

1. Al, As, Cr, Cu, Fe, Ni, Co, Pb (Kingfisher 2)
2. Mo, Al, Fe, Co, Cr, Cu, As, Cd (East Duwamish Greenbelt 1)
3. As, Pb , Mo, Al, Co, Cr, Cu, Ni(Westcrest)
4. Cr, Al, Co, As, Ni, Mo (East Duwamish Greenbelt 2)
5. Ni, Cr, Cu, Al, Fe (Mt. Baker)
6. Pb, Mo, Ni, Cu (St. Marks Greenbelt)
7. Al, Fe, Co, Pb (Magnolia)
8. Co, Cd (Northacres)
9. As, Mo (Lakeridge)
10. Cu, Pb (Maywood Playfield)
11. Ni, Cu (Frink)
12. Cr, Cd (Woodland)
13. Cd (Magnuson South)
14. Mo (Kubota Gardens 2)
15. Pb (Kinnear)
16. Cd (Discovery Park 1)
17. As (Camp Long)

*Dark green circles indicate that none the concentrations were among the top 6 concentrations.

City of Seattle