

5. Relative Environmental Exposure Map

IV. Combined Scores by Census Tract

1. Hazard Scores Multiplied by Combined Exposure Scores
 - a. Flood Exposure Scores
 - b. Earthquake Exposure Scores
 - c. Hail Exposure Scores
 - d. Hurricane Exposure Scores
 - e. Snow Exposure Scores
 - f. Combined Exposure Scores

2. Exposure Scores Multiplied by Combined Hazard Scores
 - a. Critical Facilities Hazard Scores
 - b. Social Hazard Scores
 - c. Economic Hazard Scores
 - d. Environmental Hazard Scores

V. Detailed Hazard/Exposure Combinations by Census Tract

1. Schools at Earthquake Risk
2. Elderly Population at Snow Risk

APPENDIX C: Hazard, Exposure, and Combined Score Maps

I. Hazard Scores by Census Tract

1. Relative Hazard Map Comparison
2. Relative Flood Hazard Map
3. Relative Hail Hazard Map
4. Relative Hurricane Hazard Map
5. Relative Earthquake Hazard Map
6. Relative Snow Hazard Map
7. Relative Temperature Extreme Hazard Map
8. Relative Combined Hazard Map

II. Exposure Scores by Census Tract

1. Combined Relative Exposure Maps
2. Relative Critical Facilities Exposure Map
3. Relative Social Exposure Map
4. Relative Economic Exposure Map
5. Relative Environmental Exposure Map
6. Relative Combined Exposure Map

III. Exposure and Hazard Scores by Community

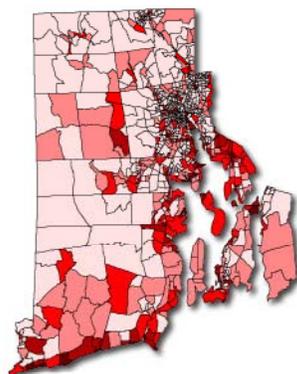
1. Combined Relative Exposure Maps
2. Relative Critical Facilities Exposure Map
3. Relative Social Exposure Map
4. Relative Economic Exposure Map

Relative Hazard Map Comparison

Illustrates the Distribution of Relative Hazards Through-Out Rhode Island



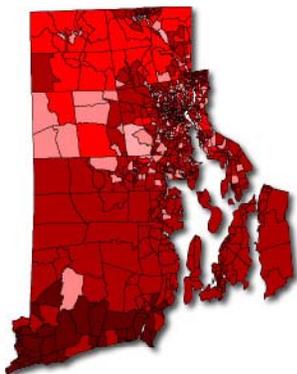

Earthquake Hazard Scores



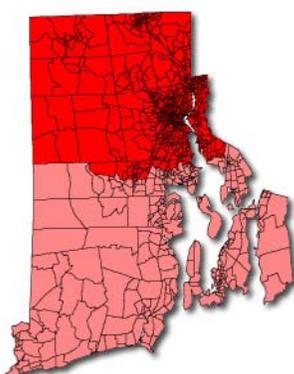

Flood Hazard Scores




Hail Hazard Scores



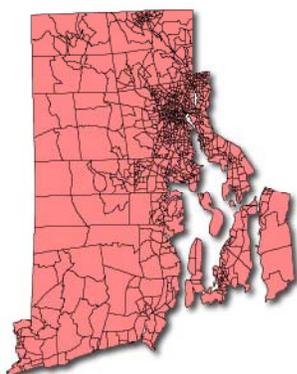

Hurricane Hazard Scores



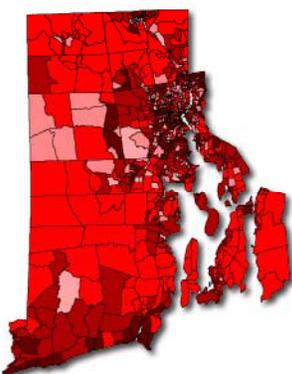

Snow Hazard Scores



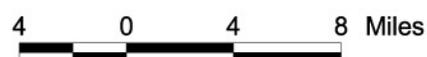

Temperature Extremes
Hazard Scores




Tornado Hazard Scores

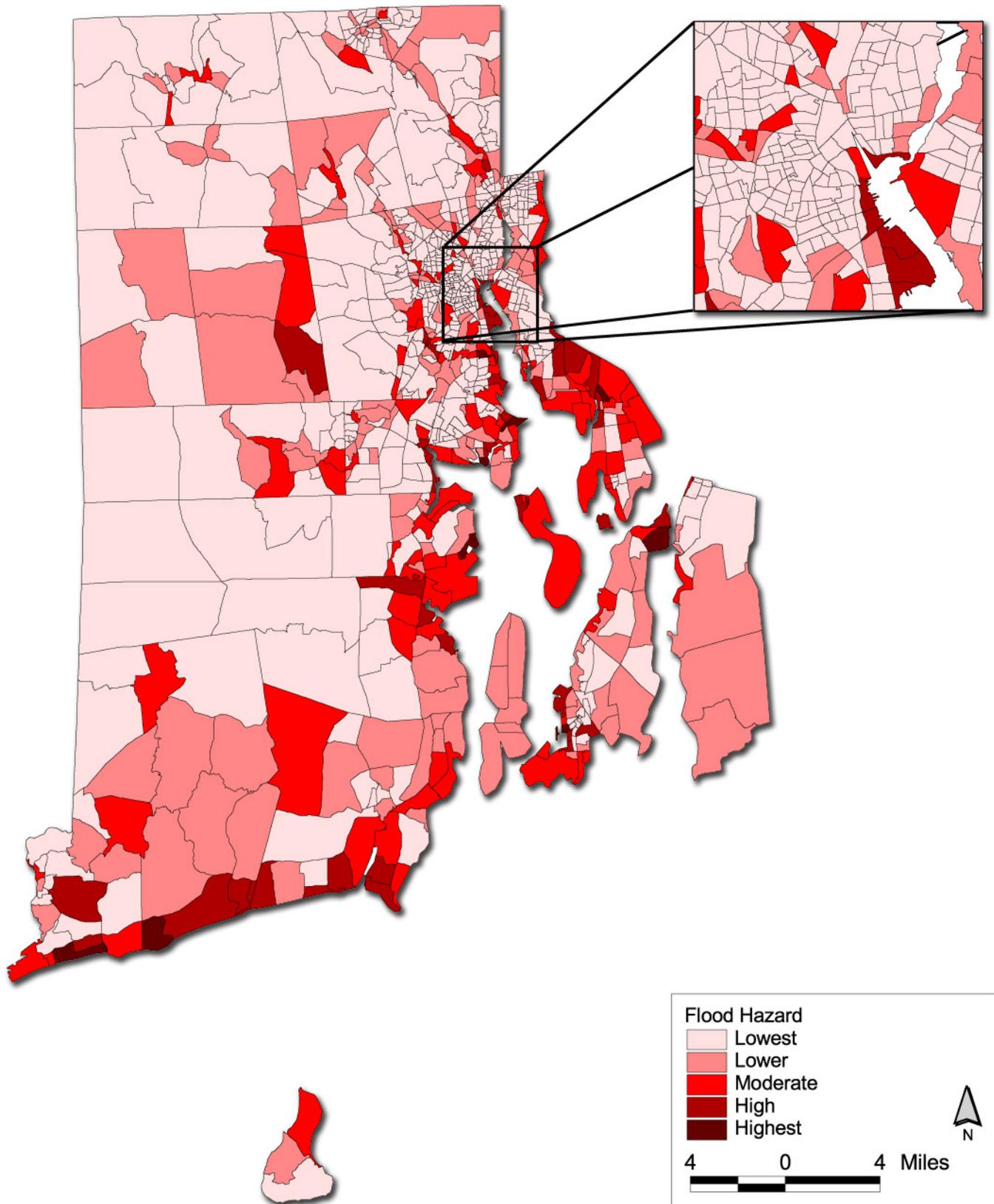



Combined Hazard Scores



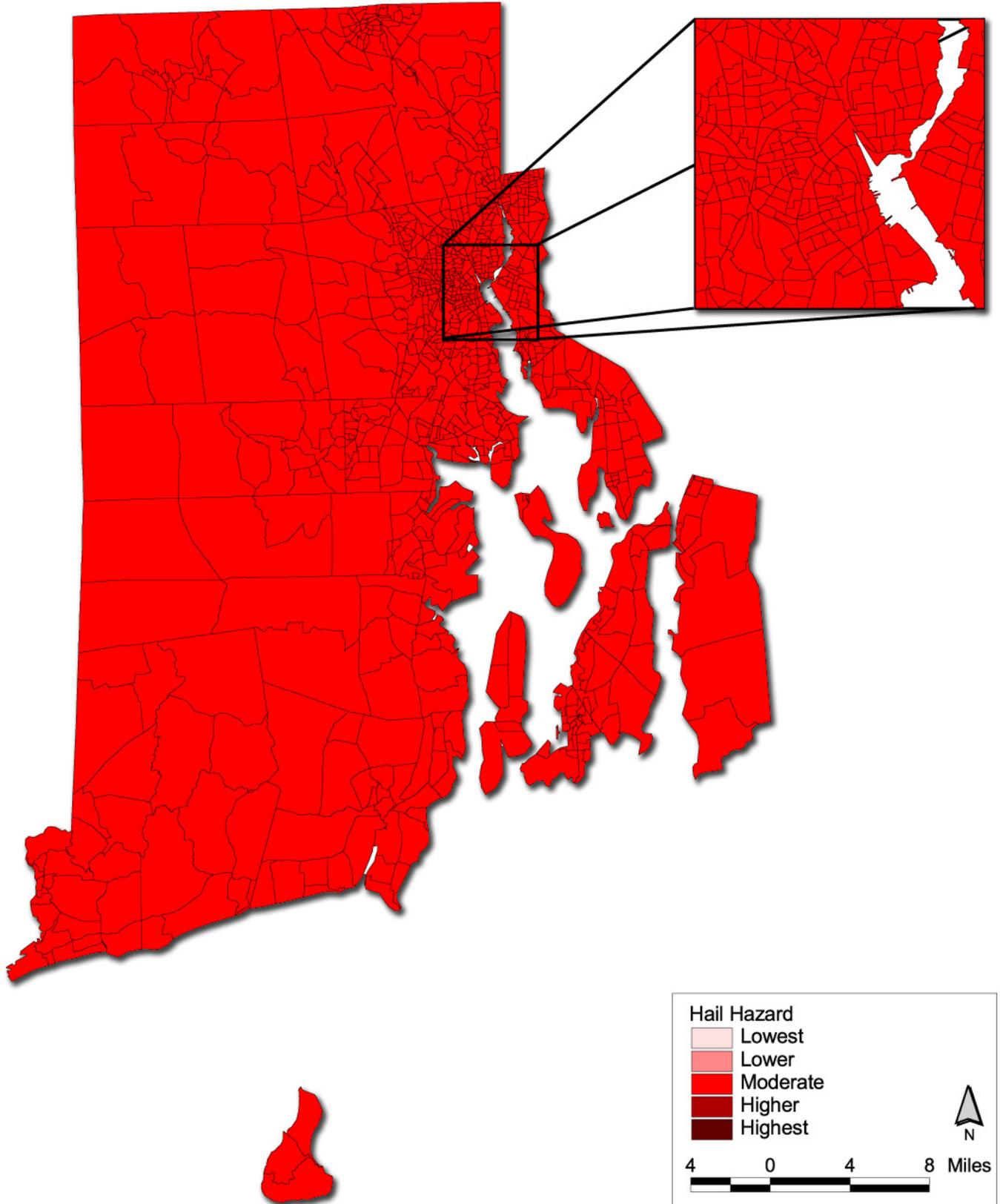
Relative Flood Hazard Map

Based on NFIP Flood Zones AE through X500



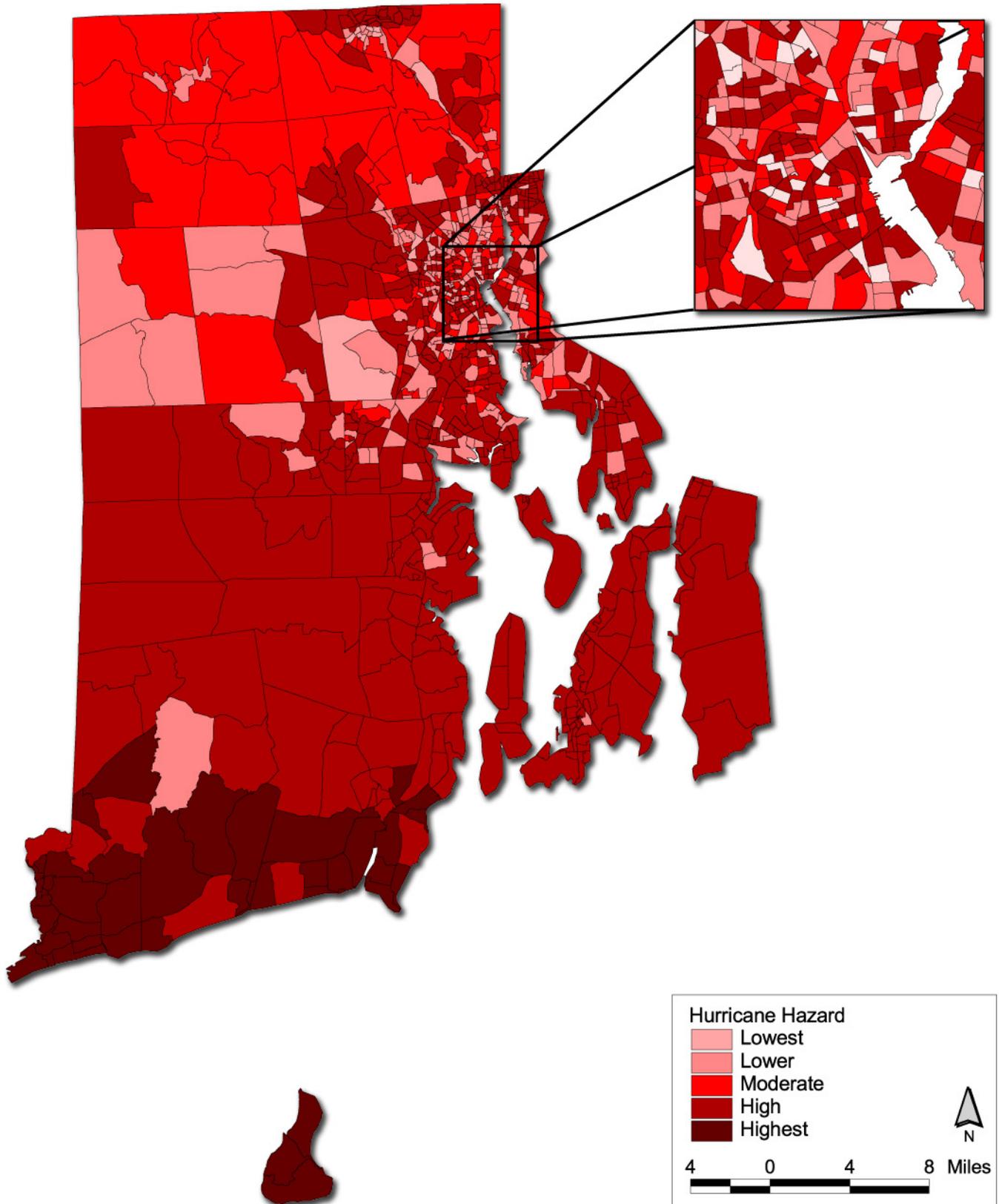
Relative Hail Hazard Map

Based on Particle Size in Inches



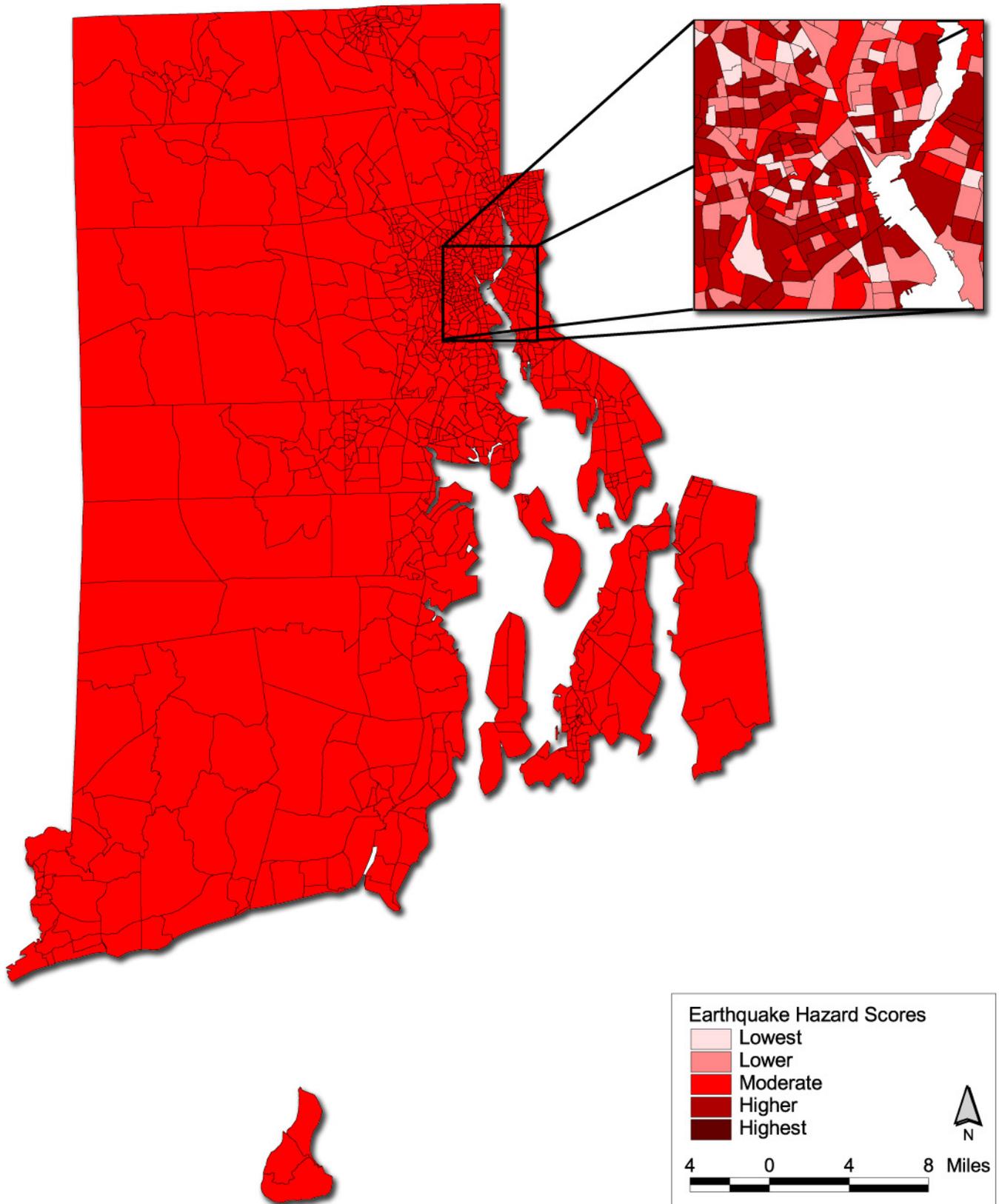
Relative Hurricane Hazard Map

Based on Saffir Simpson hurricane windspeeds



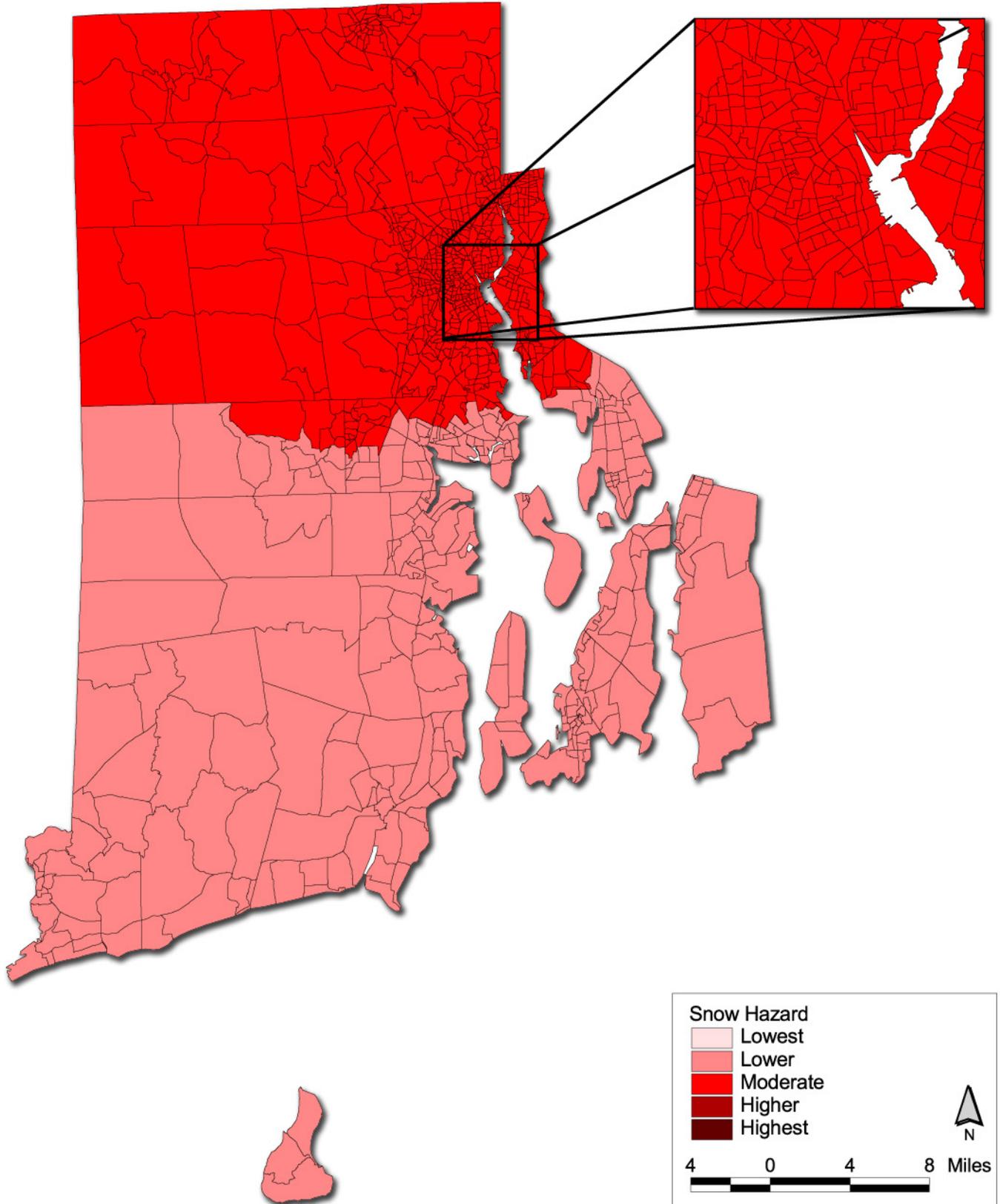
Relative Earthquake Hazard Map

Based on MMI Spectral Acceleration (G-force/1 sec)



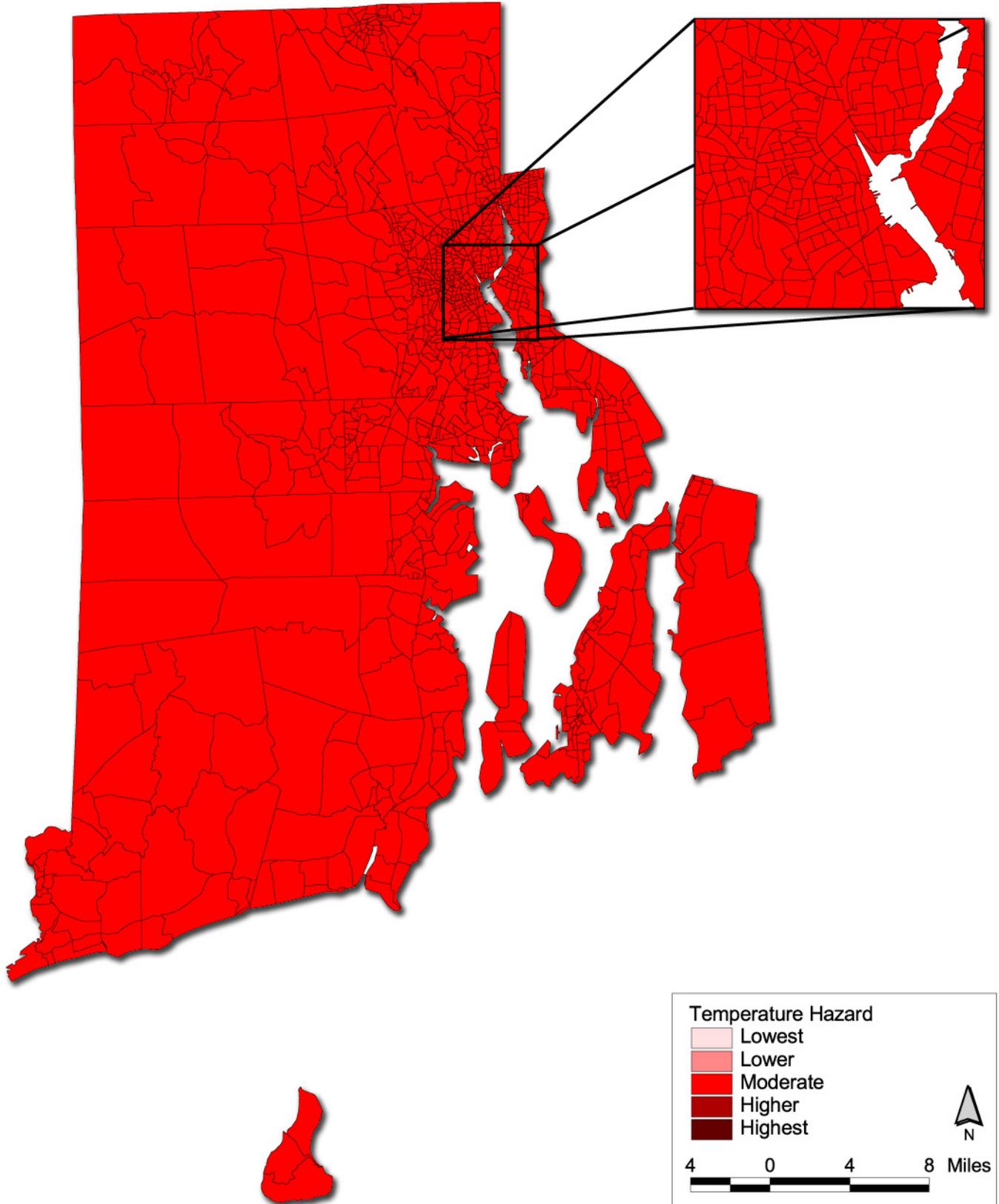
Relative Snow Hazard Map

Based on average annual depth in inches



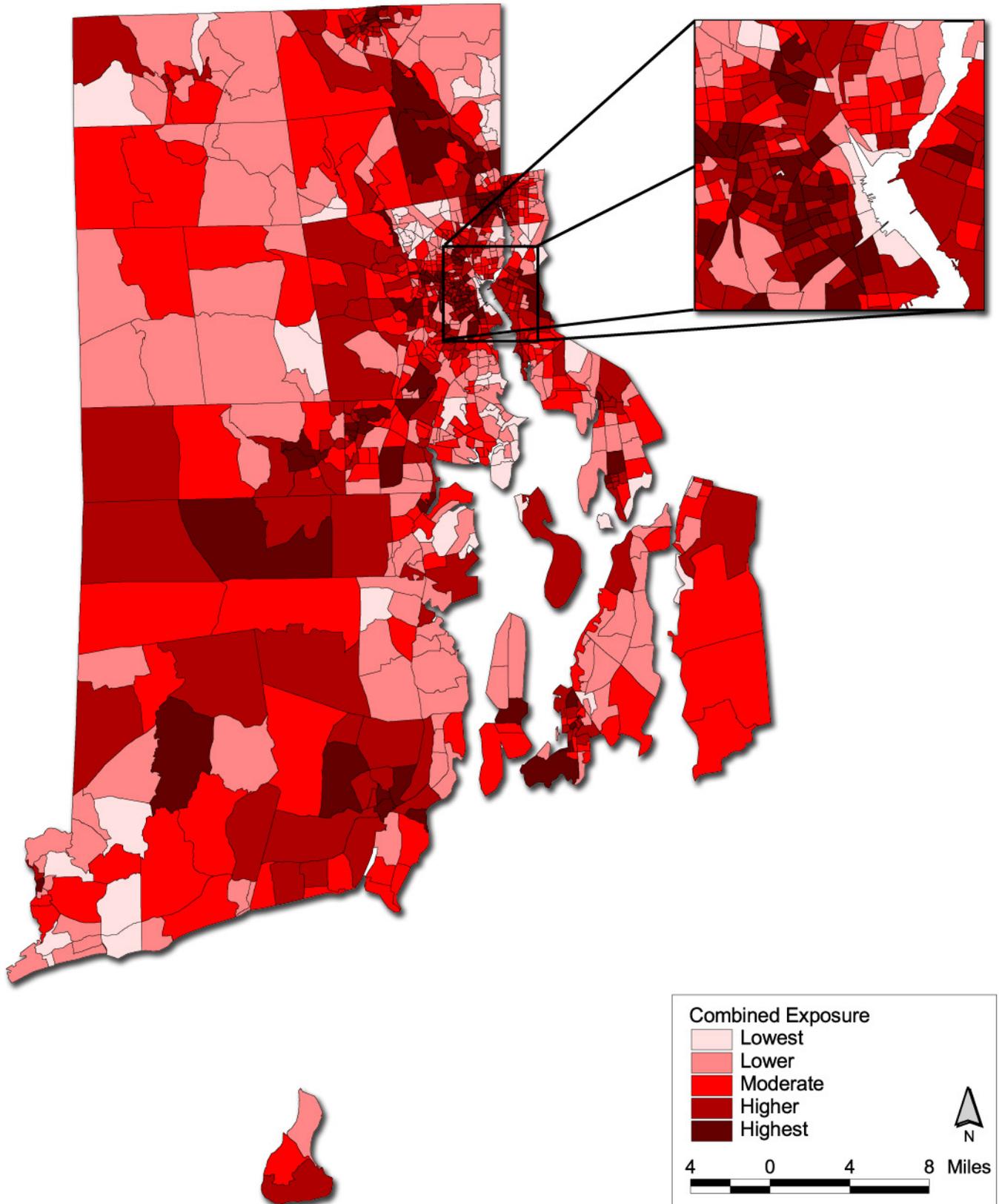
Relative Temperature Hazard Map

Based on heating degree days minus cooling degree days



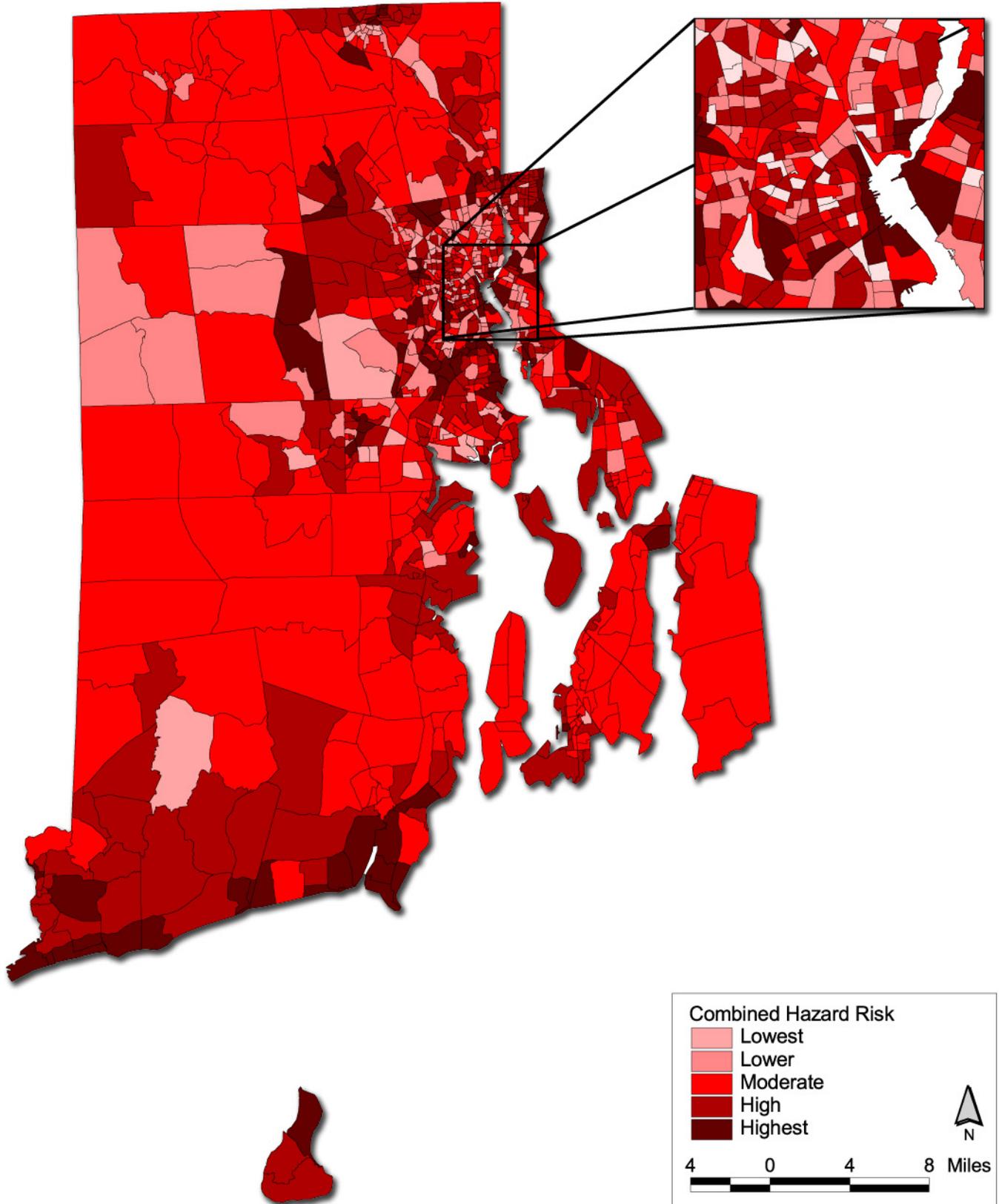
Combined Relative Exposure Map

Based on combined critical facilities, social, environmental, and economic exposure scores.



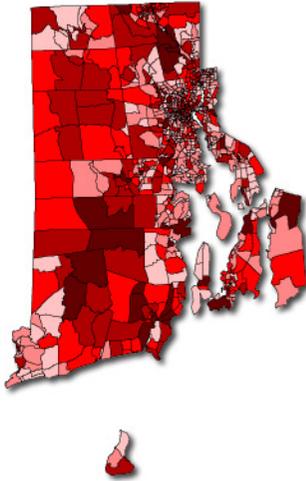
Combined Relative Hazard Map

Sum of all hazard scores

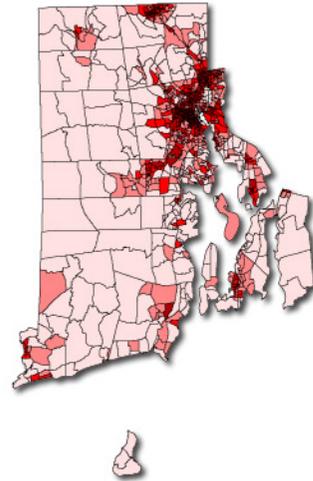


Combined Relative Exposure Maps

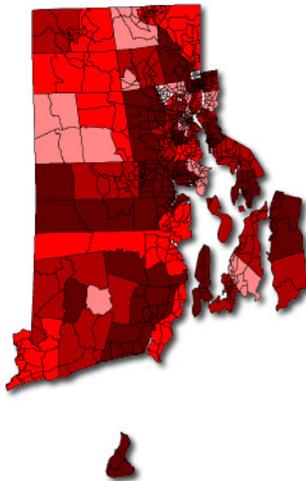
Including Critical Facilities, Social, Economic, Environmental, and Combined Exposure Maps



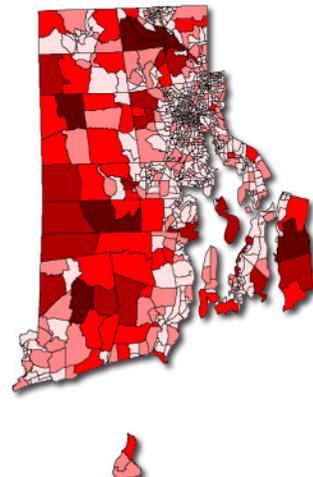
Critical Facilities Scores



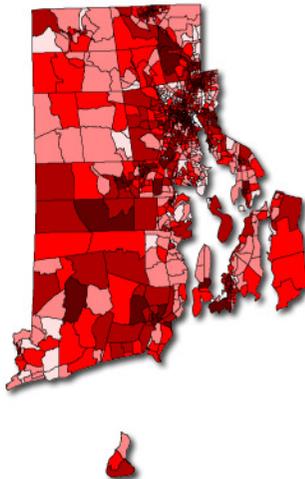
Social Exposure Scores



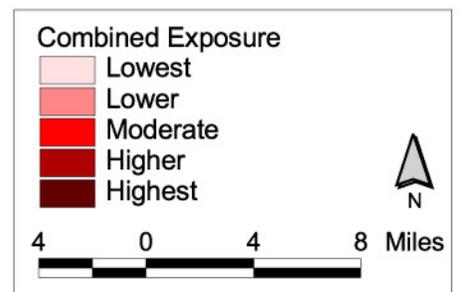
Economic Exposure Scores



Environmental Exposure Scores

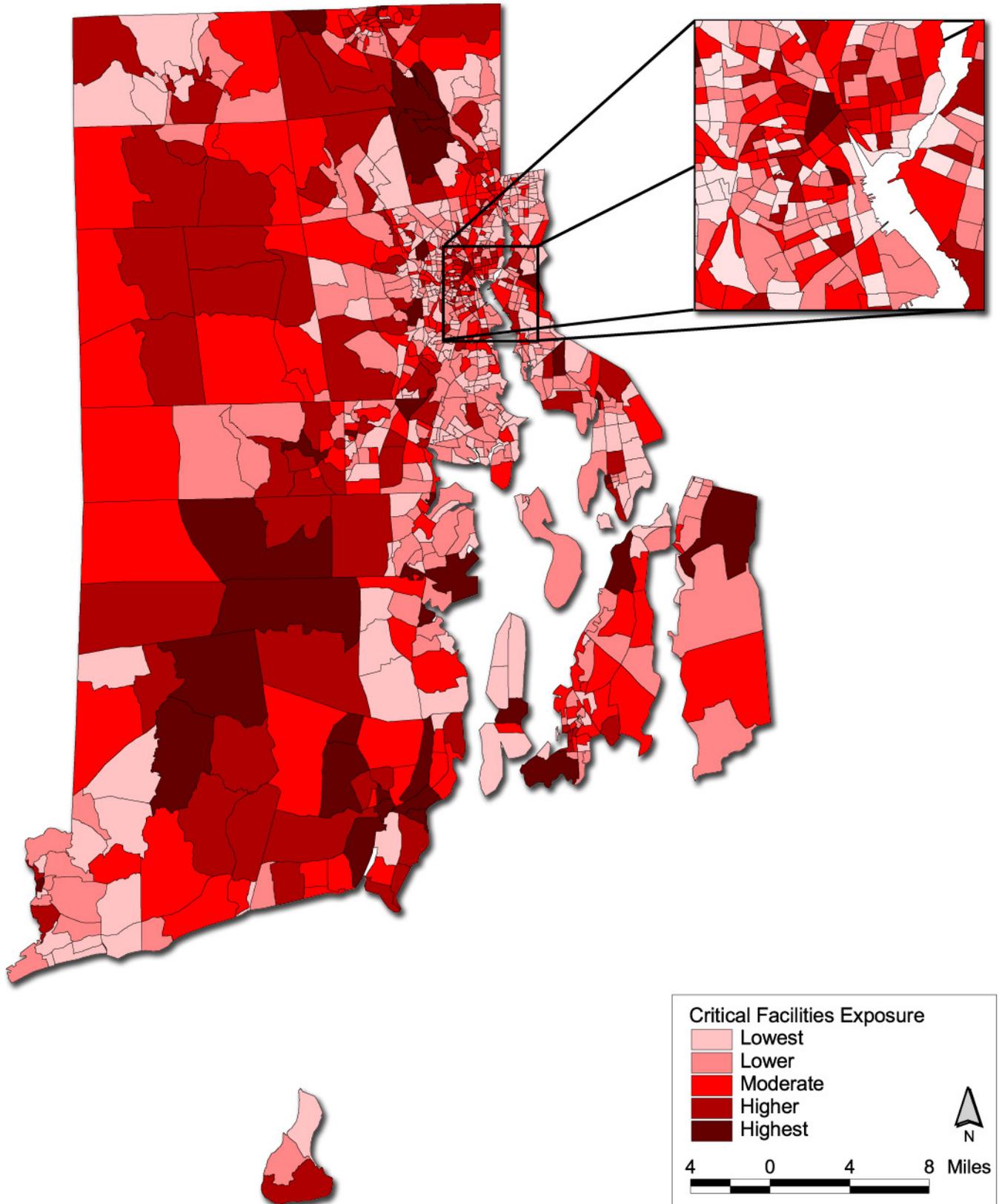


Combined Exposure Scores



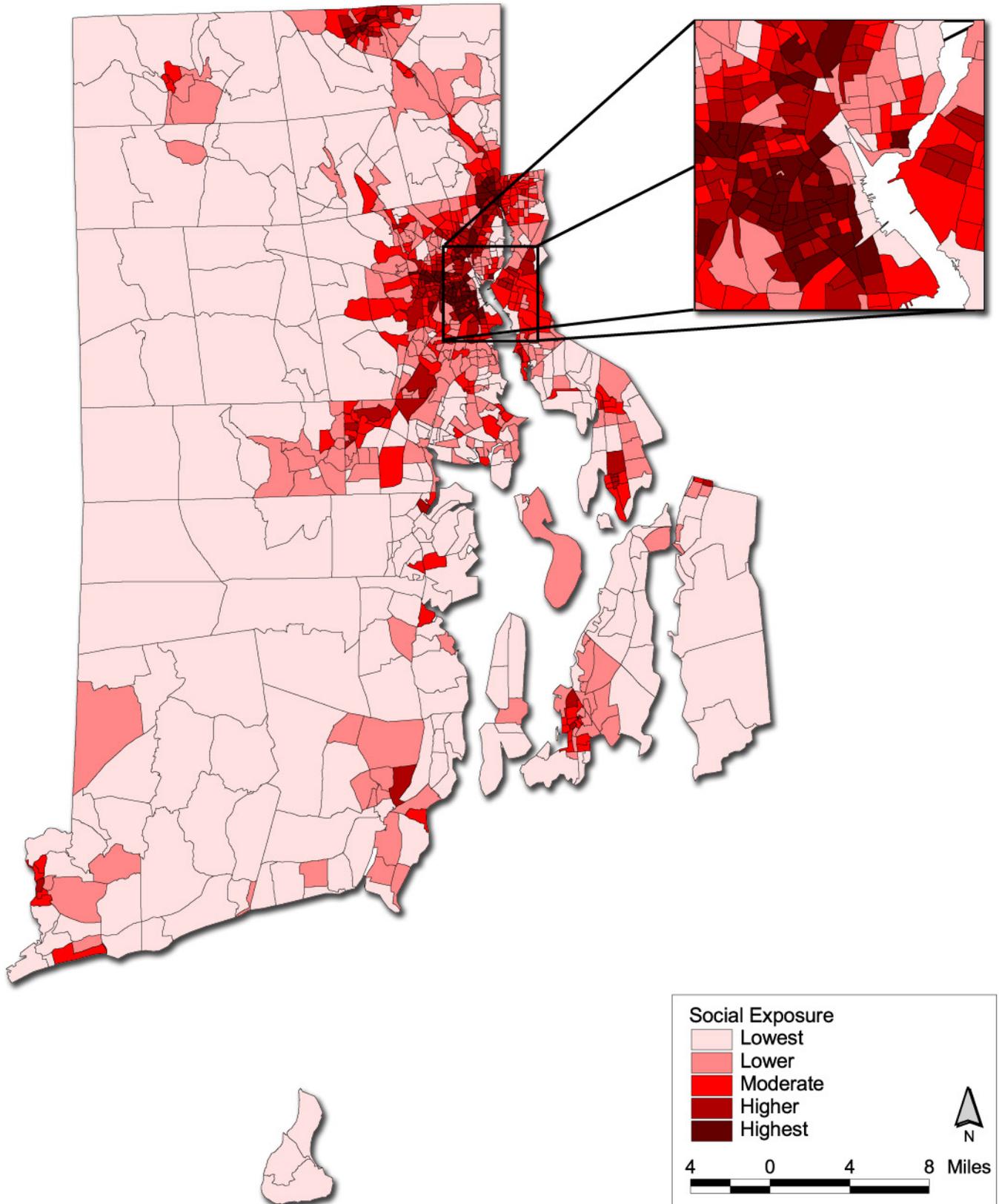
Relative Critical Facilities Exposure Map

Including marinas, fire & rescue stations, police stations, water treatment facilities, railroad & airport depots, and government facilities.



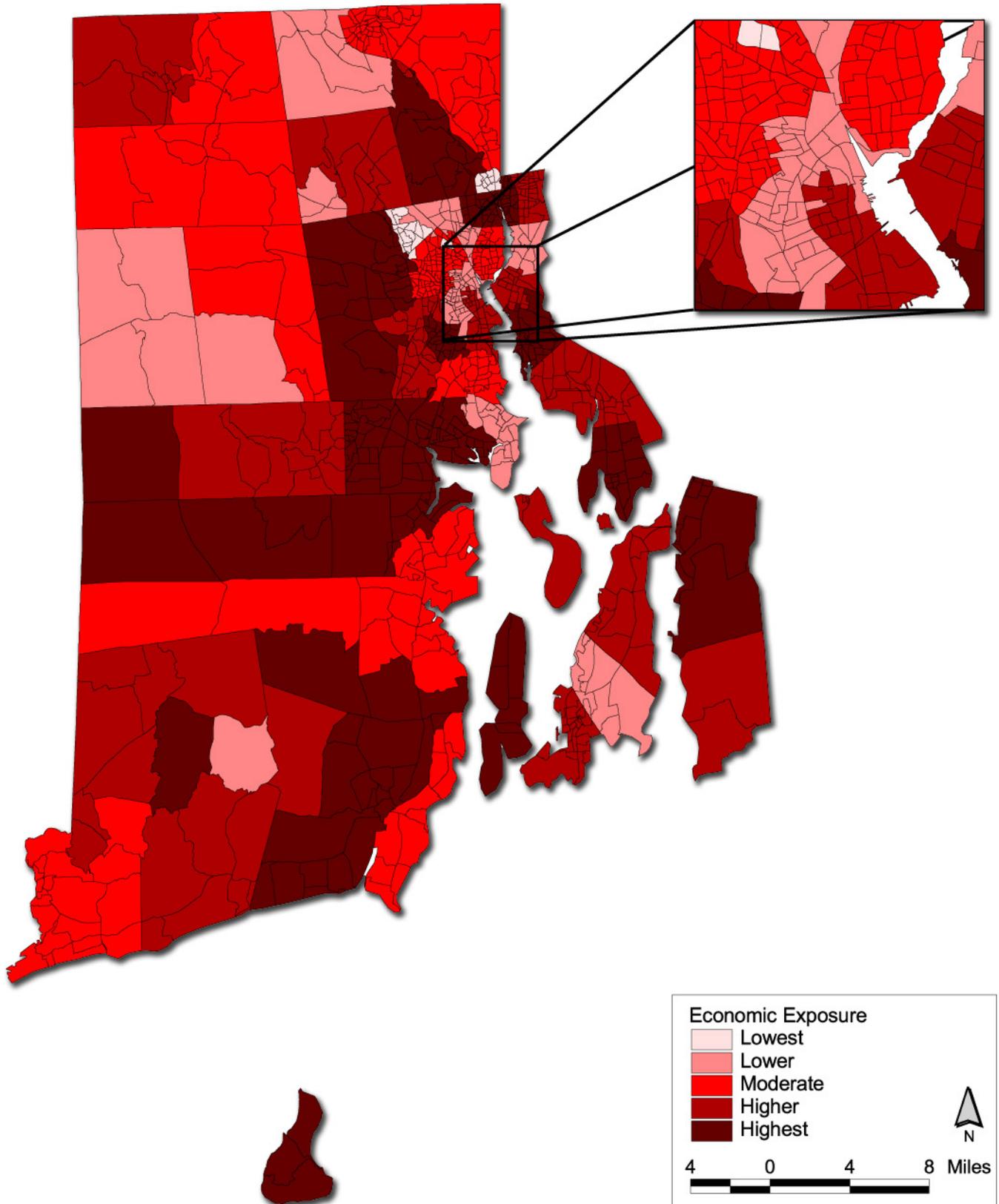
Relative Social Exposure Map

Including population density, elderly, no high school education, public assistance, those without vehicles, renters, disabled, and non-english speaking populations.



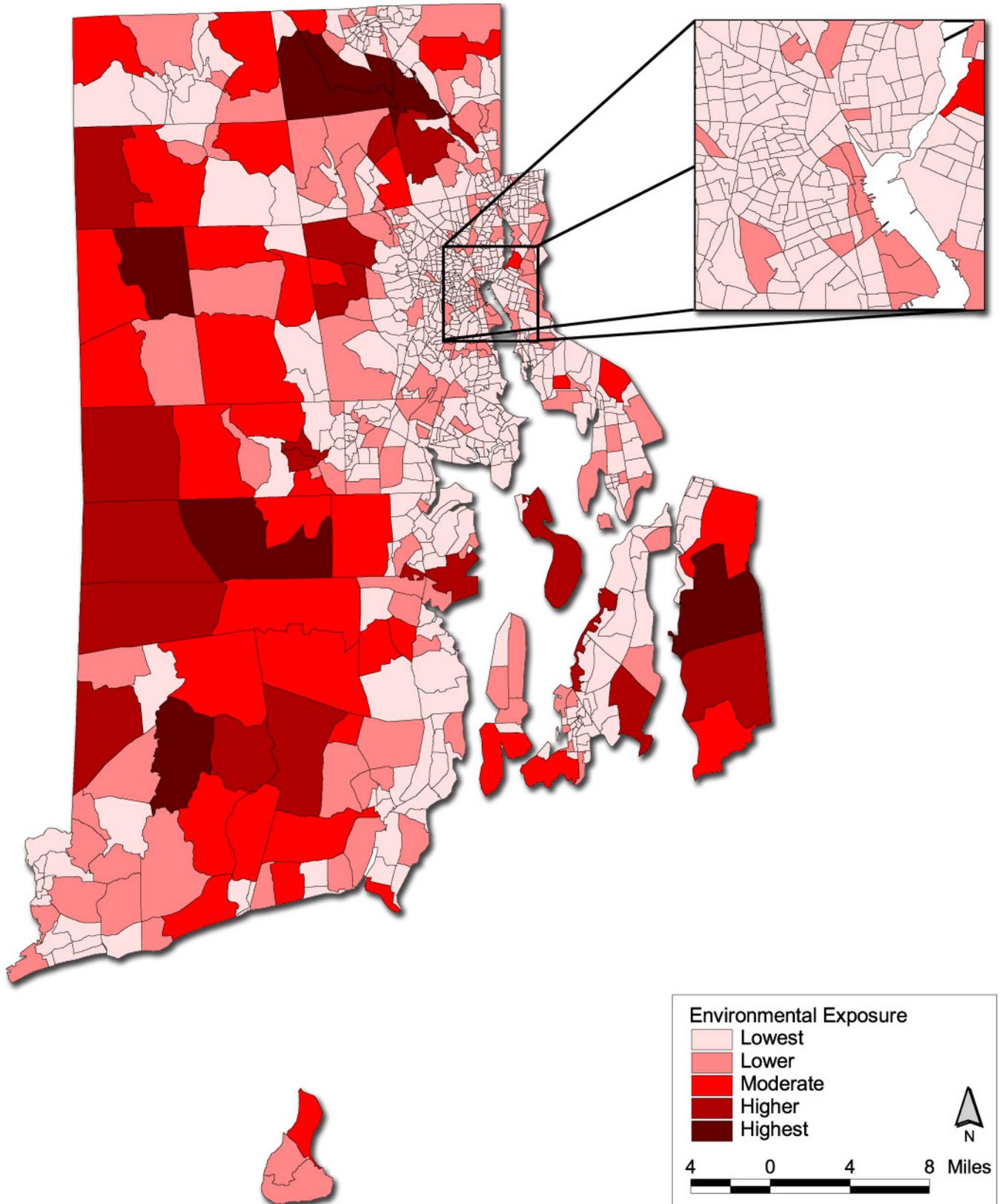
Relative Economic Exposure Map

Including construction, light manufacturing, wholesale, hotels/motels, agriculture, professional/technical services, retail, financial, and domestic property values.



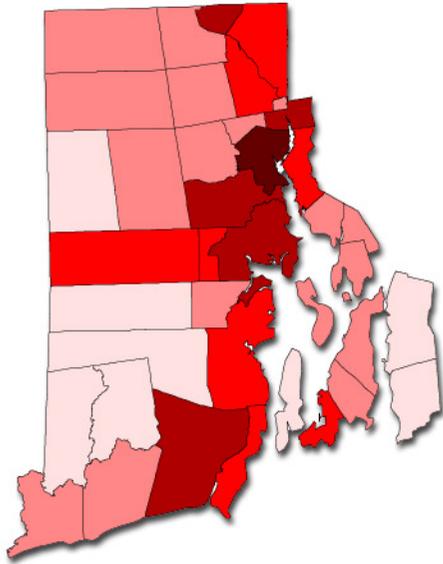
Relative Environmental Exposure Map

Including CIRCLIS sites, areas of scenic beauty, and rare species habitats

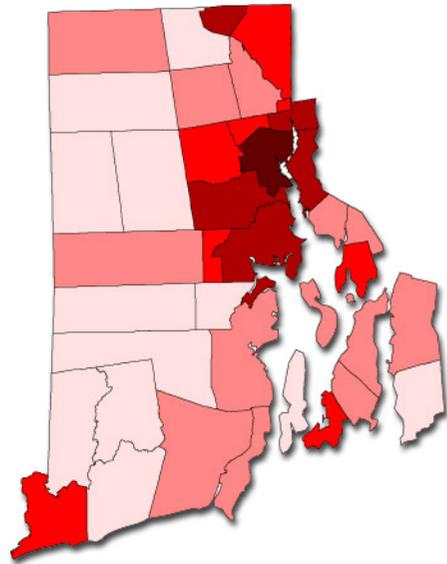


Combined Community Exposure Maps

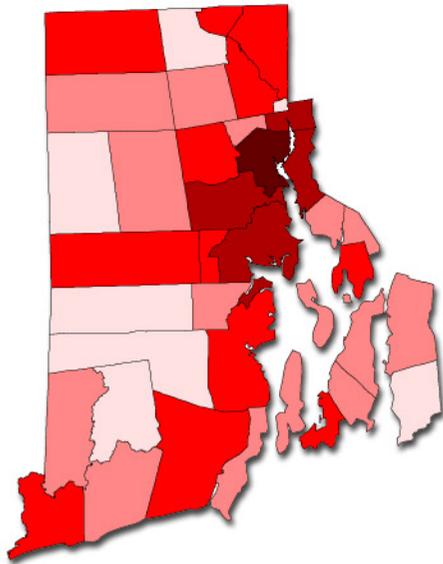
Including Critical Facilities, Social, Economic, Environmental, and Combined Exposure Maps



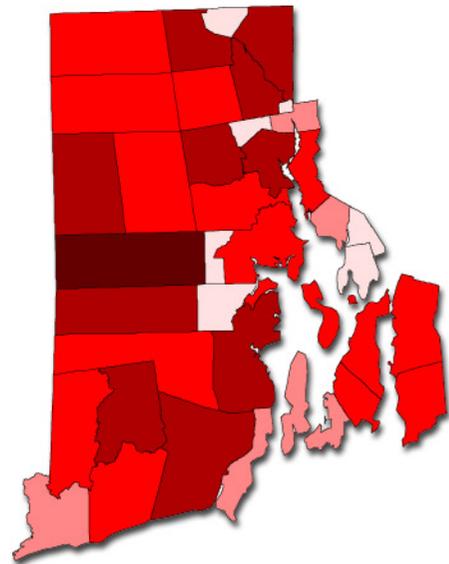
Critical Facilities



Social Exposure



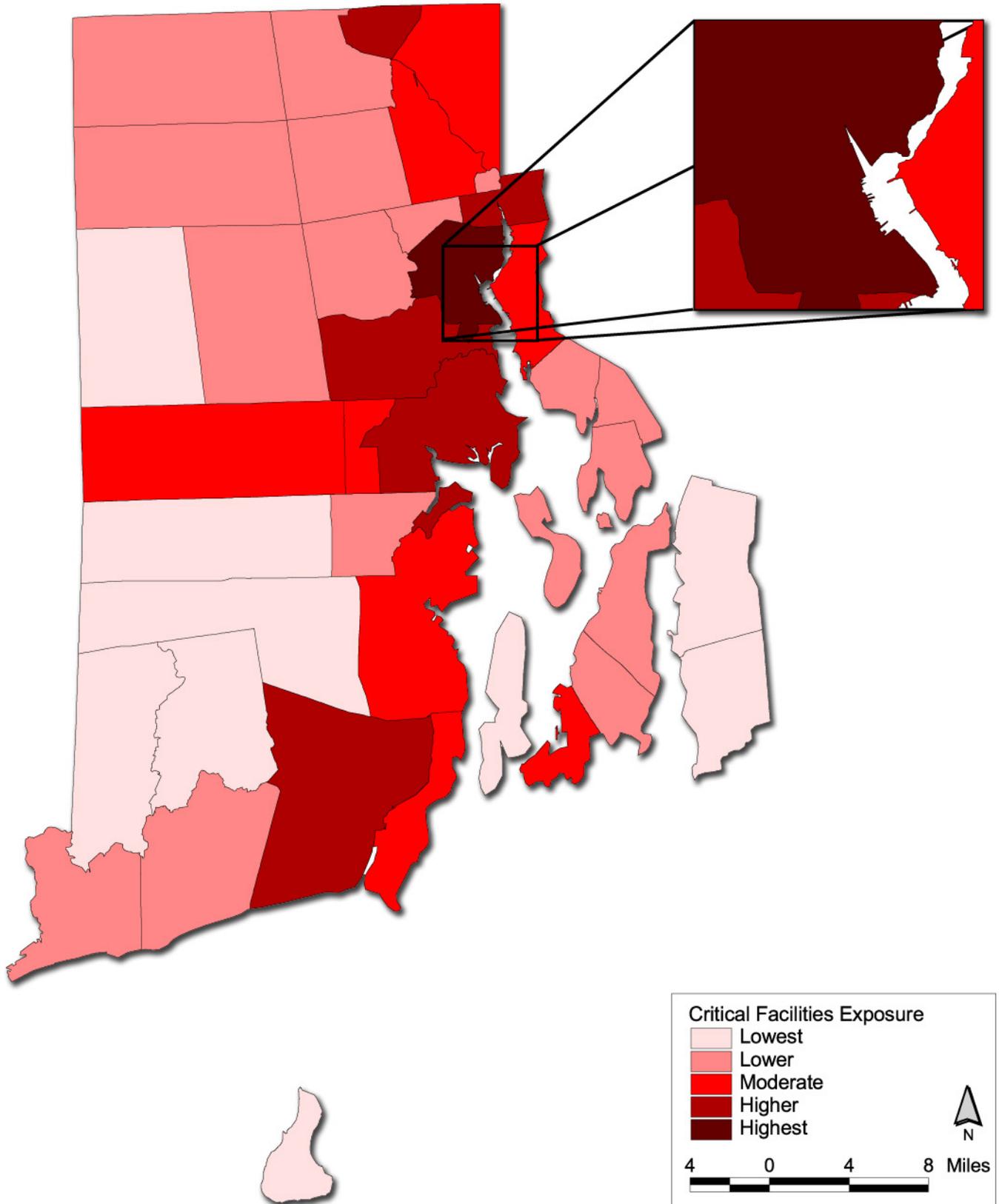
Economic Exposure



Environmental Exposure

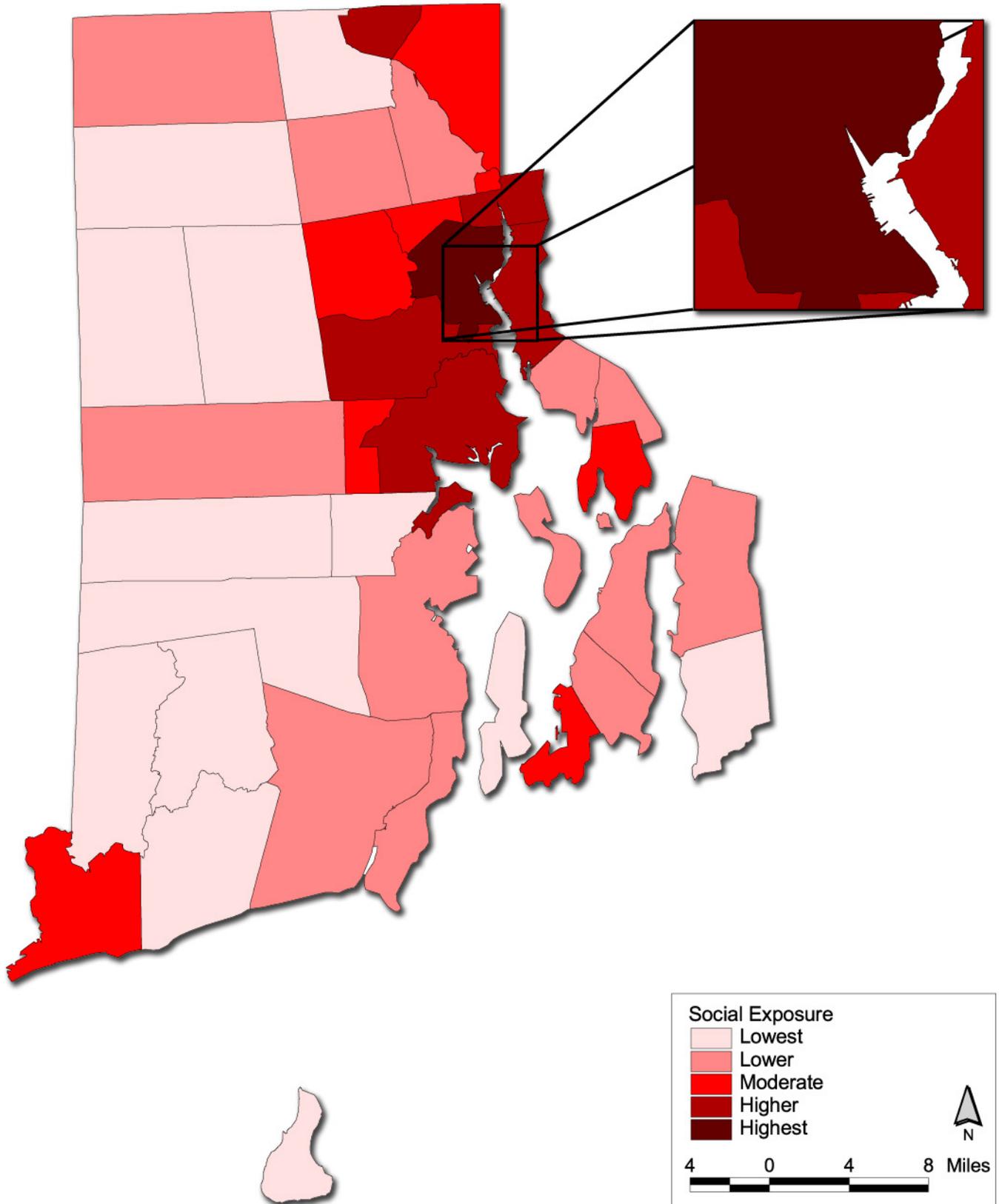
Community Critical Facilities Exposure Map

Including marinas, fire & rescue stations, police stations, water treatment facilities, railroad and airport depots, and government facilities.



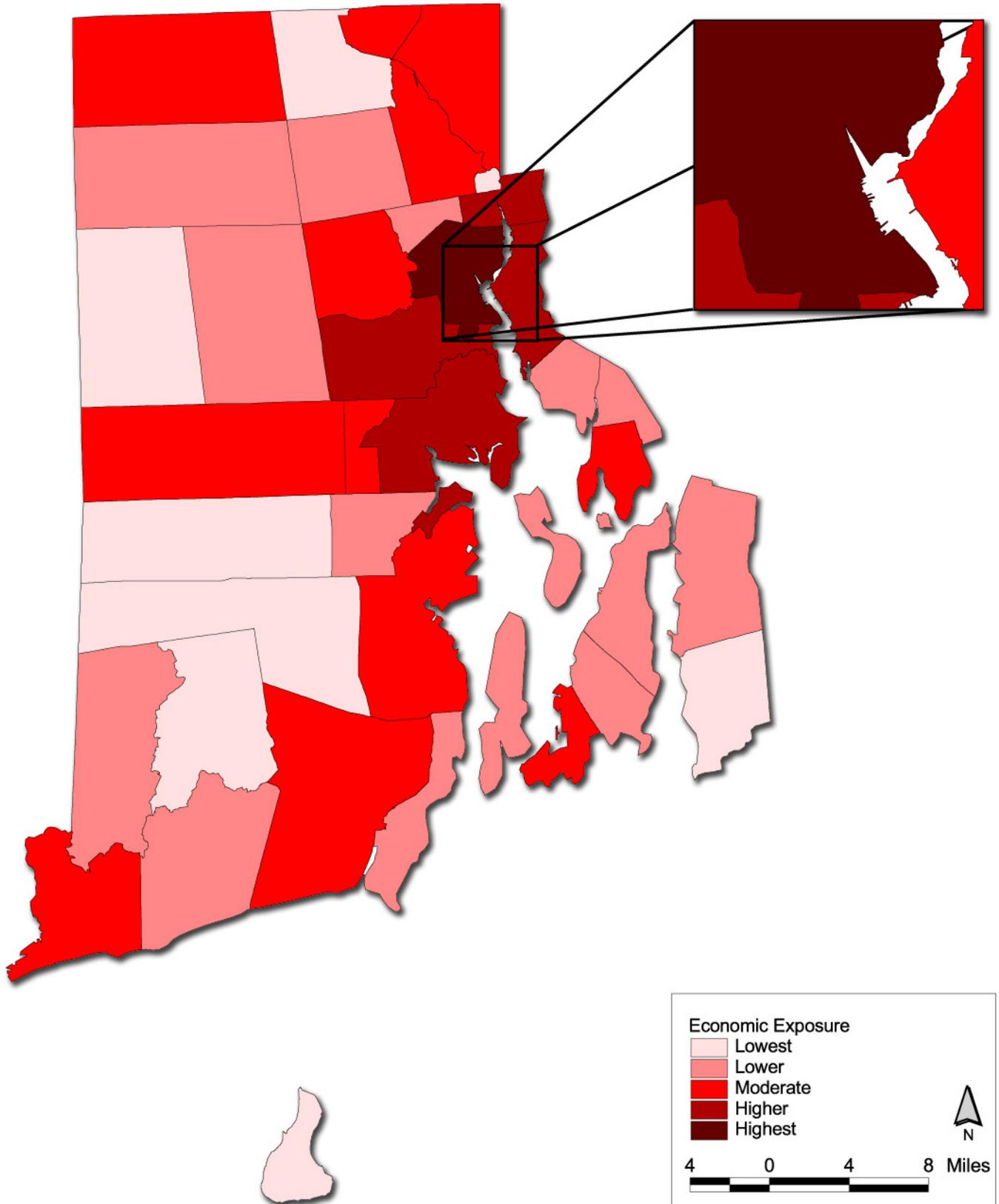
Community Social Exposure Map

Including population density, elderly, no high school education, public assistance, those without vehicles, renters, disabled, and non-english speaking populations.



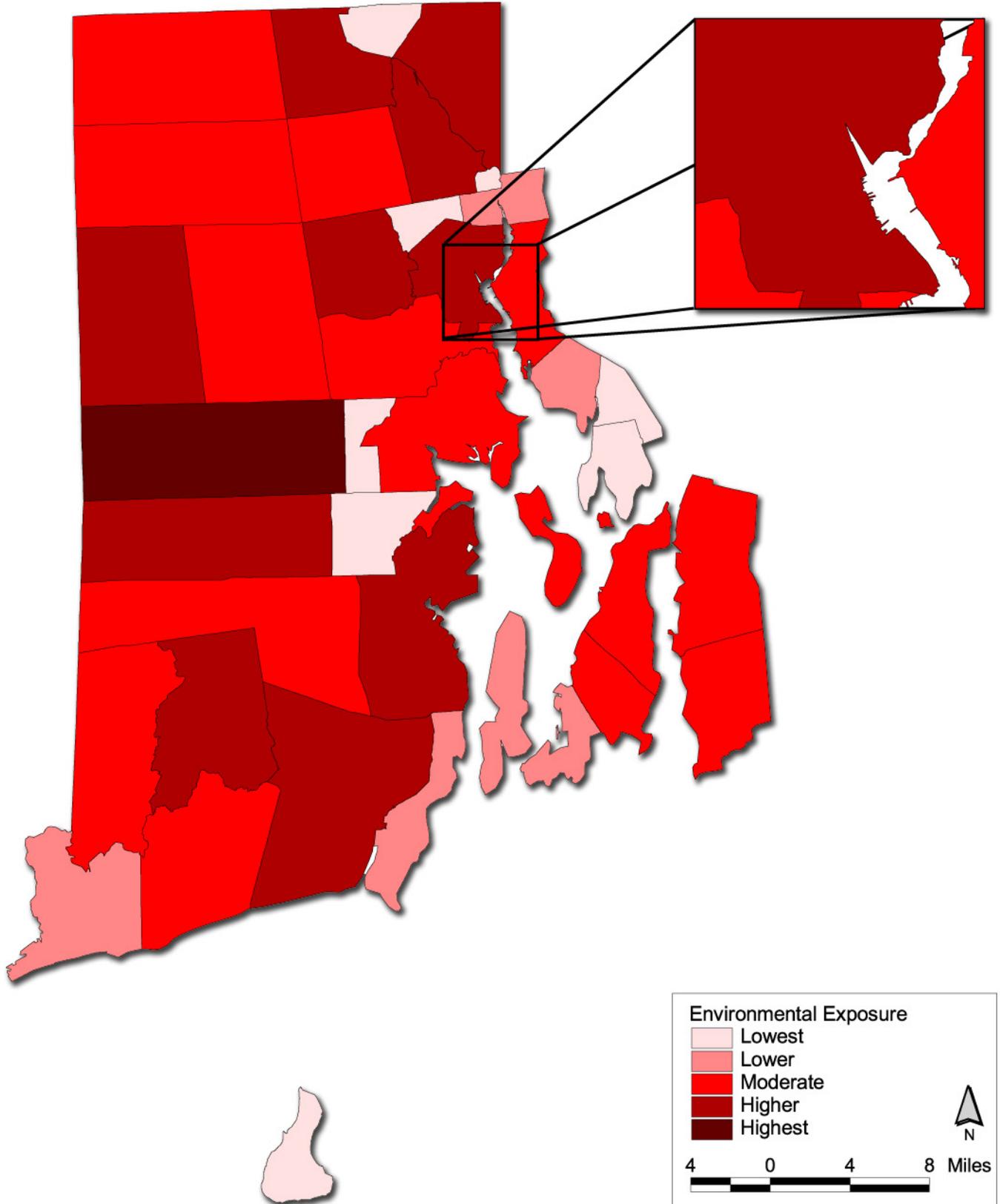
Community Economic Exposure Map

Including construction, light manufacturing, wholesale, hotels/motels, agriculture, professional/technical services, retail, financial, and domestic property values.

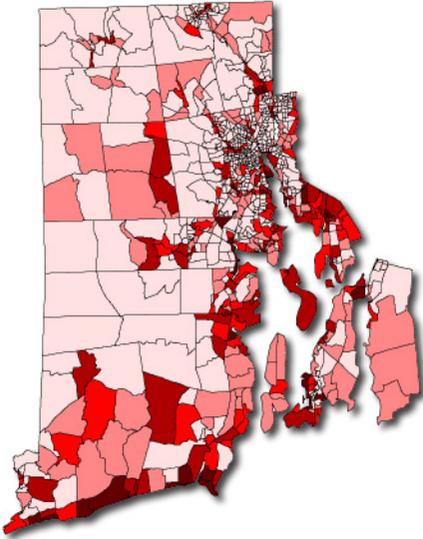


Community Environmental Exposure Map

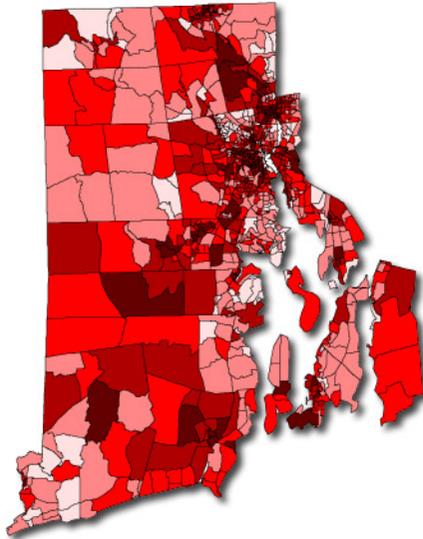
Including CIRCLIS sites, areas of scenic beauty, and rare species habitats



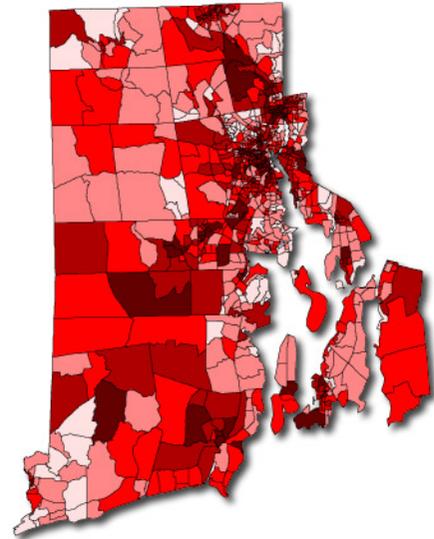
Hazard Scores Multiplied by Combined Exposure Scores



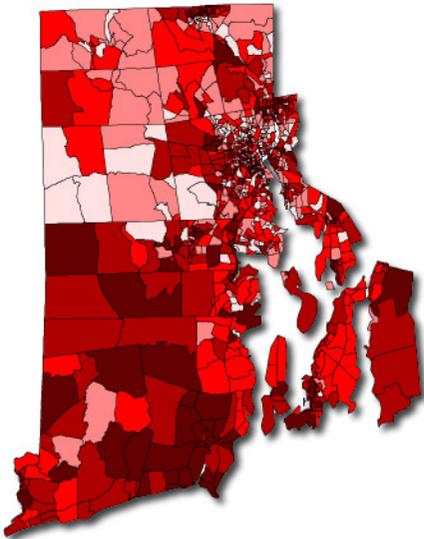
Flood Exposure Scores



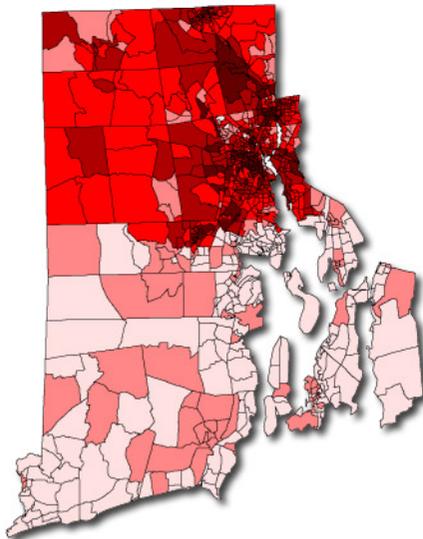
Earthquake Exposure Scores



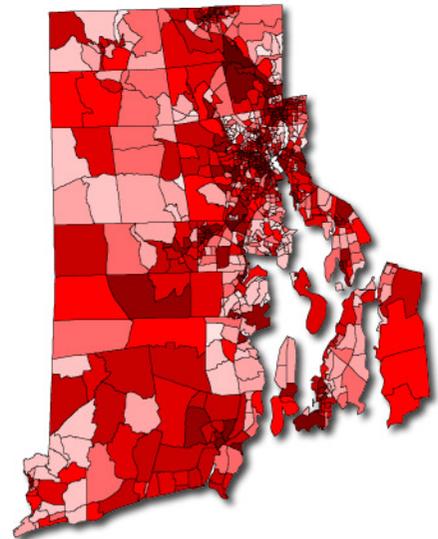
Hail Exposure Scores



Hurricane Exposure Scores



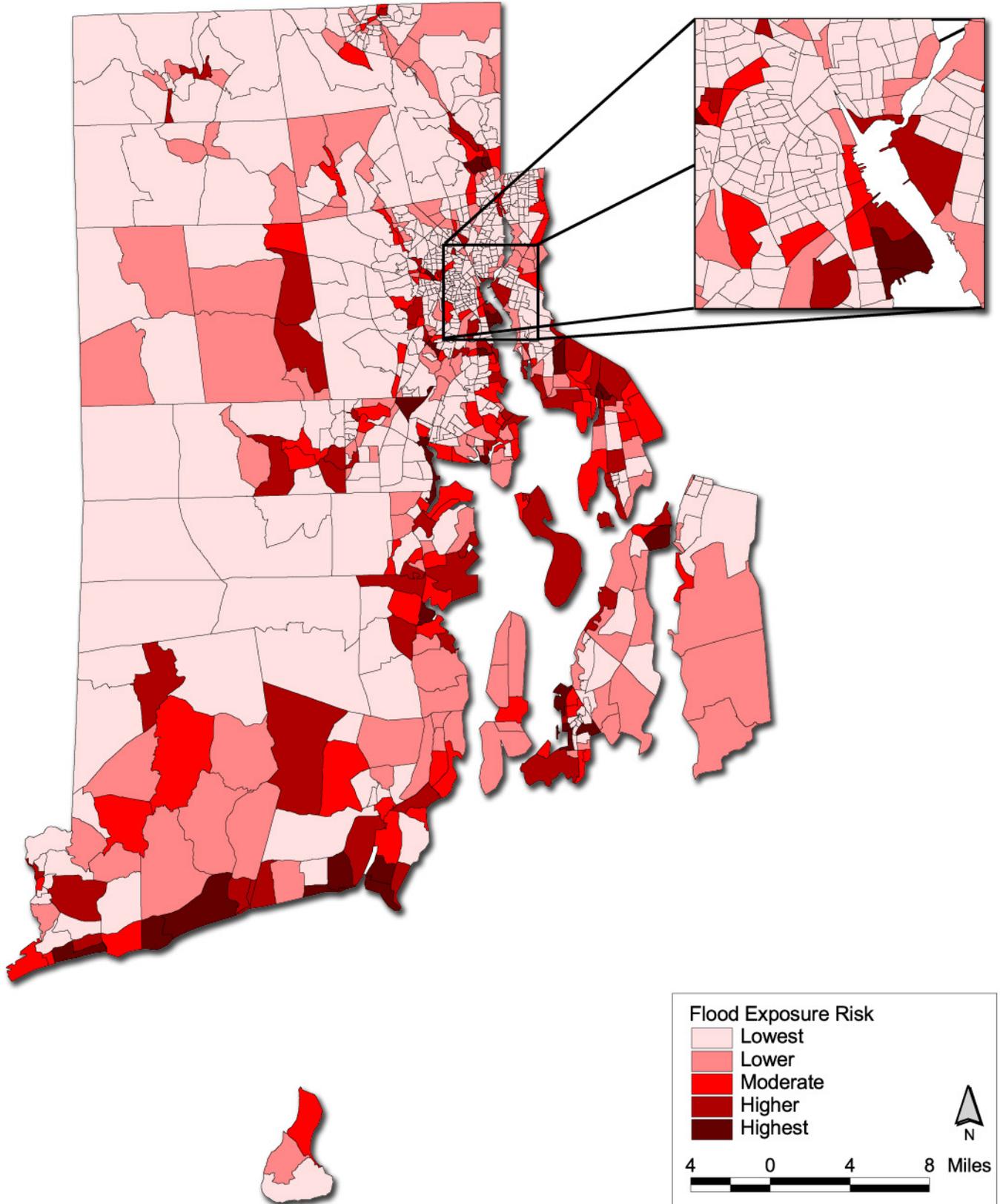
Snow Exposure Scores



Combined Hazard Times
Combined Exposure

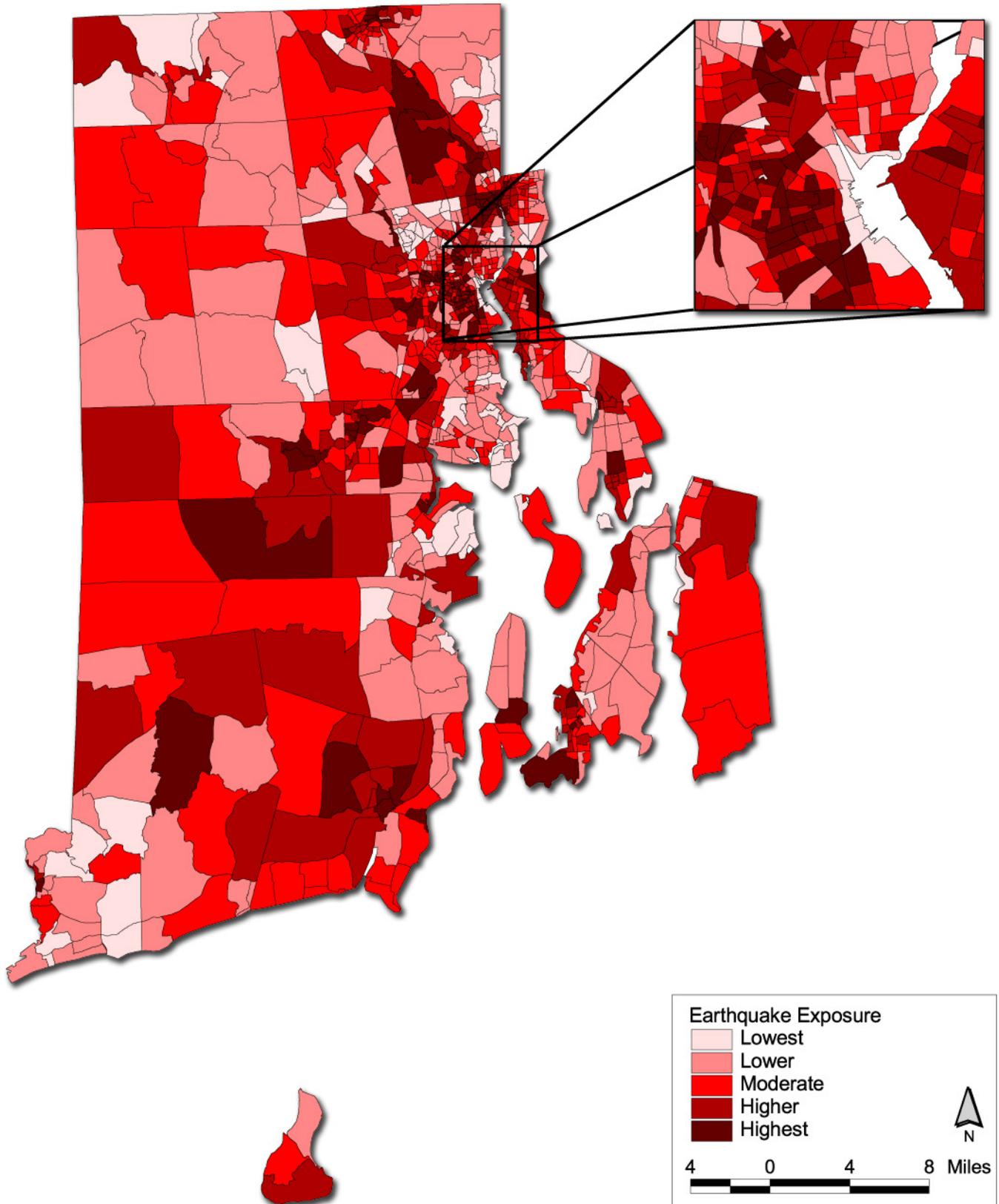
Flood Exposure Map

Derived by multiplying flood hazard scores with combined exposure scores



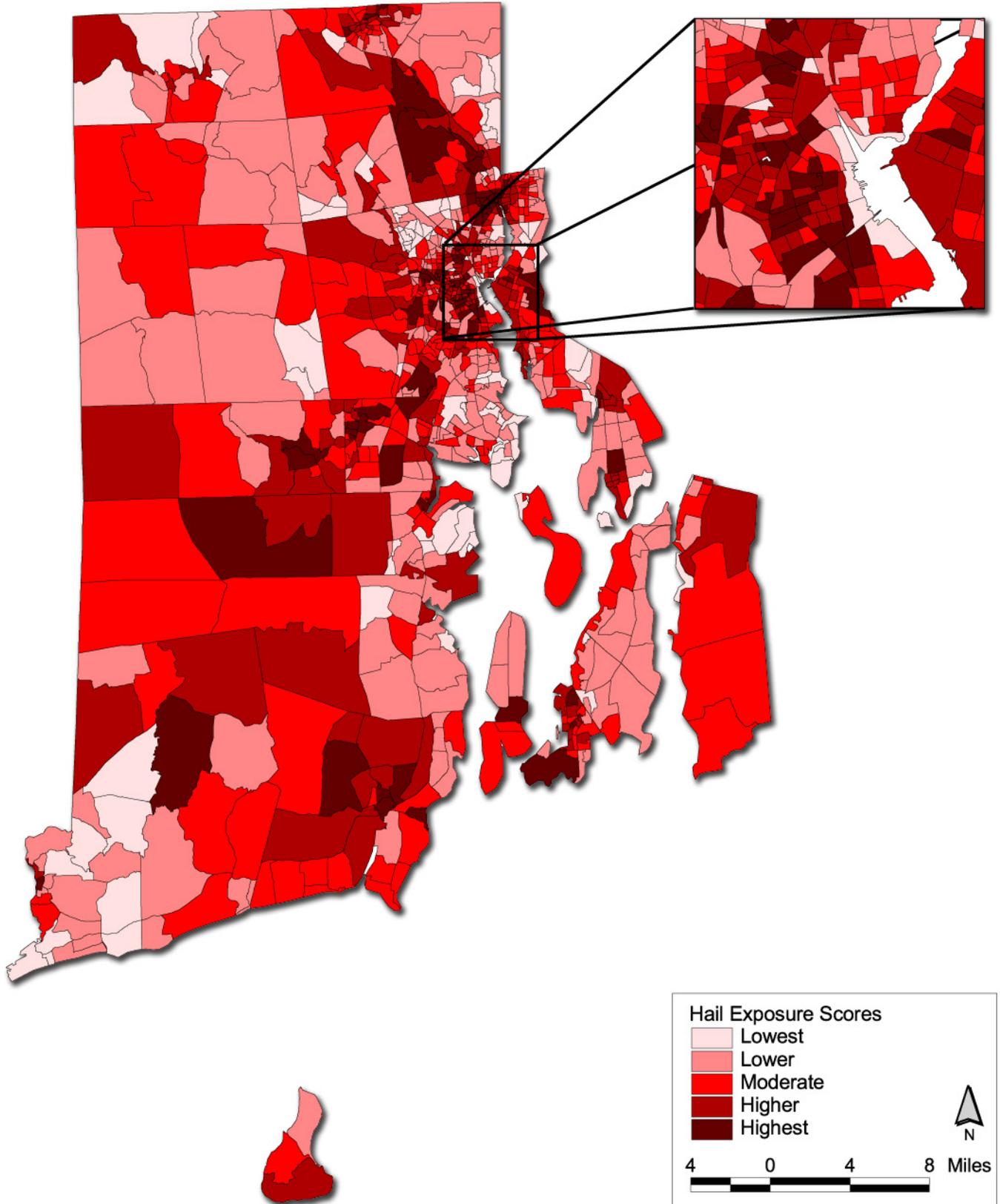
Earthquake Exposure Map

Derived by multiplying earthquake hazard scores with combined exposure scores.



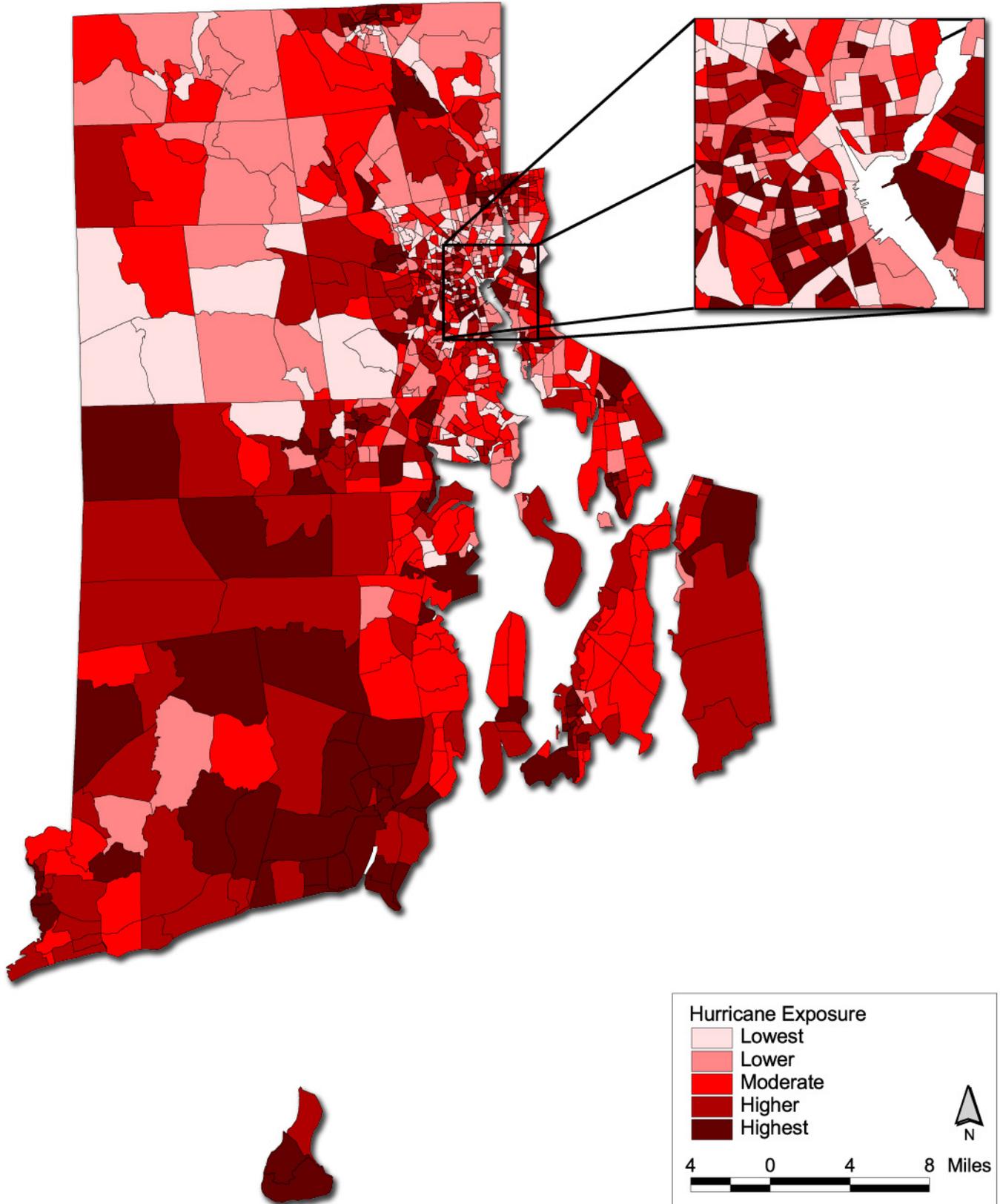
Hail Exposure Map

Derived by multiplying hail hazard scores with combined exposure scores



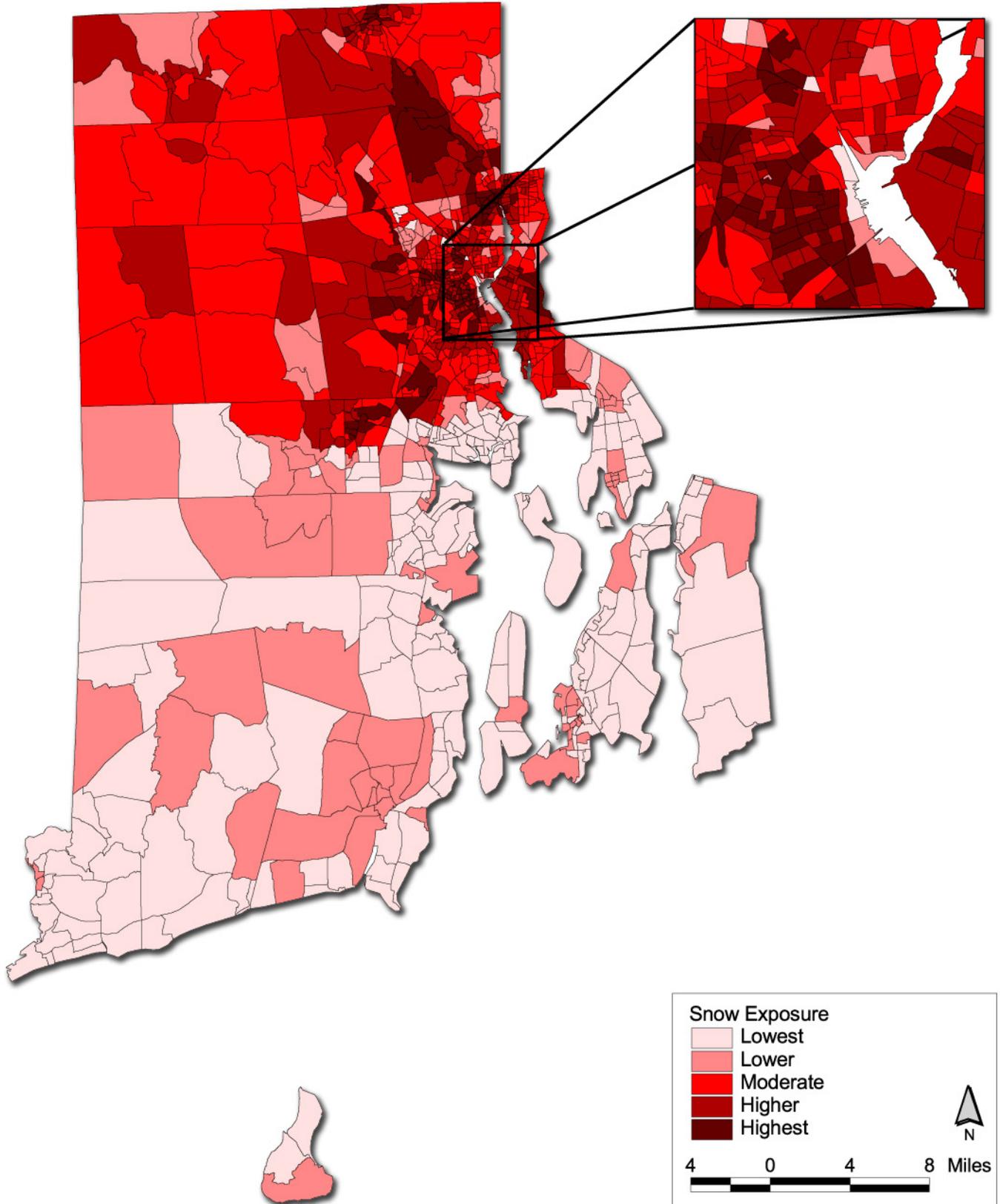
Hurricane Exposure Map

Derived by multiplying hurricane hazard scores with combined exposure scores



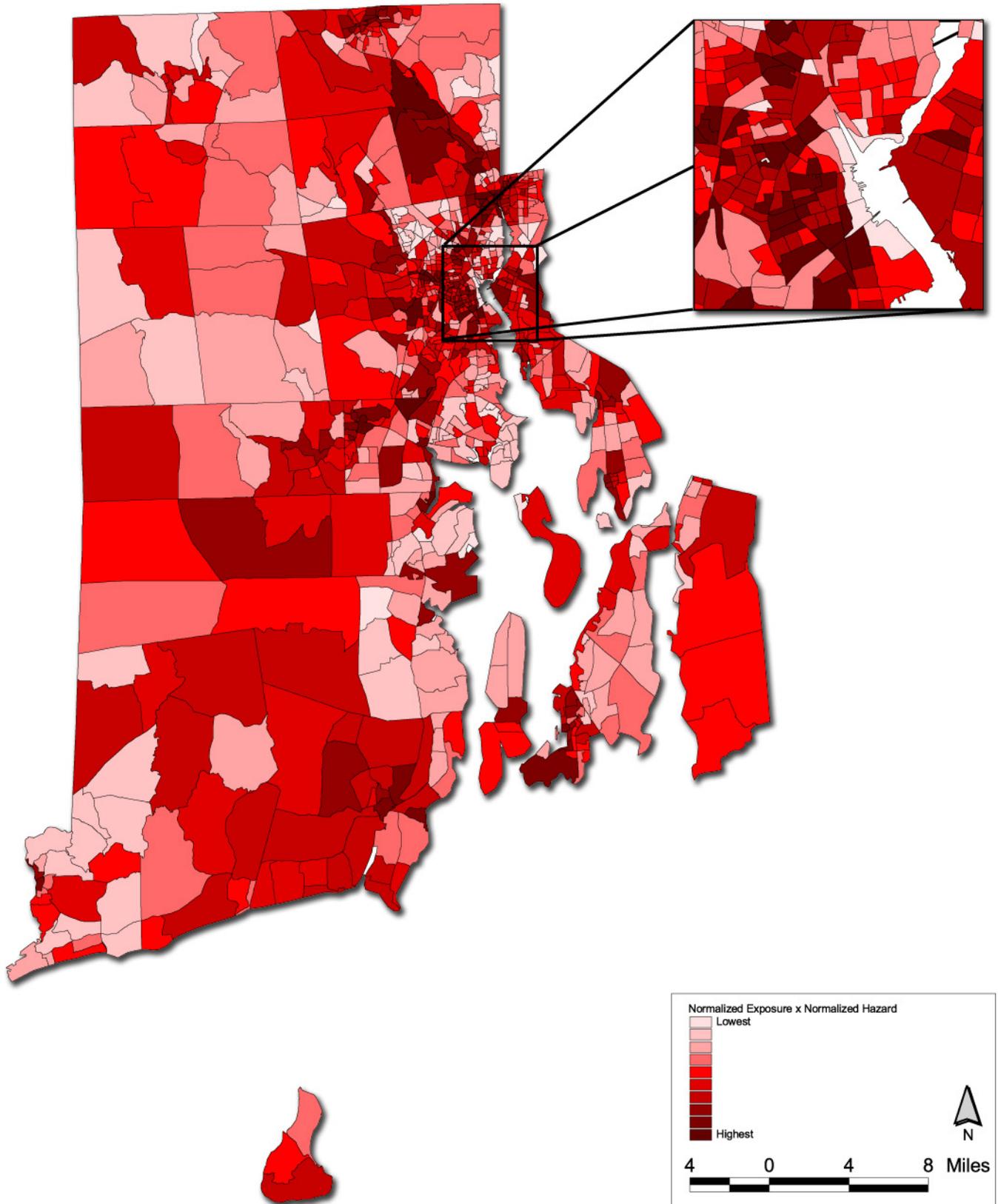
Snow Exposure Map

Derived by multiplying snow hazard scores with combined exposure scores

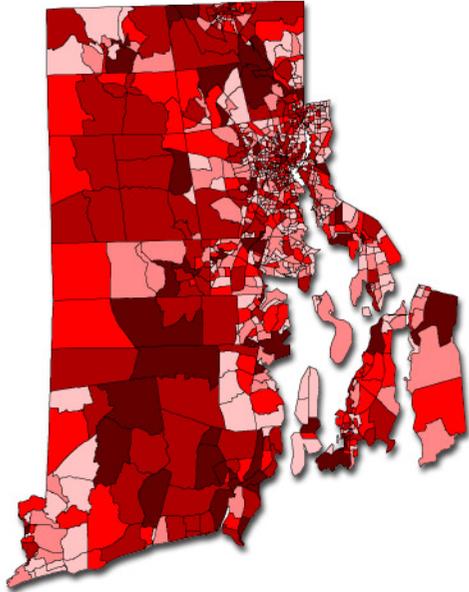


Hazard Times Exposure

Derived by multiplying combined hazard scores with combined exposure scores

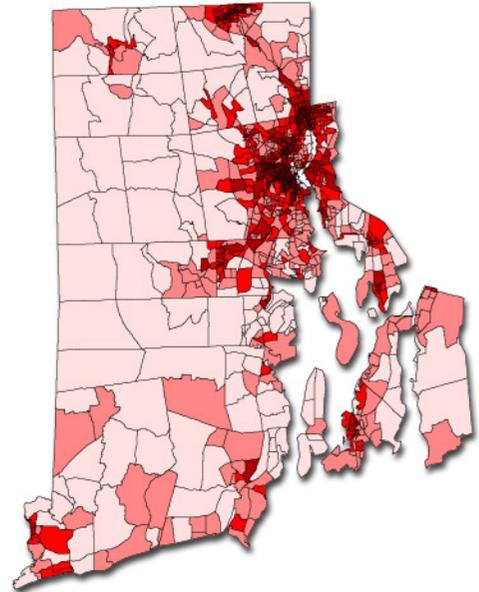


Exposure Categories Multiplied by Combined Hazard Categories



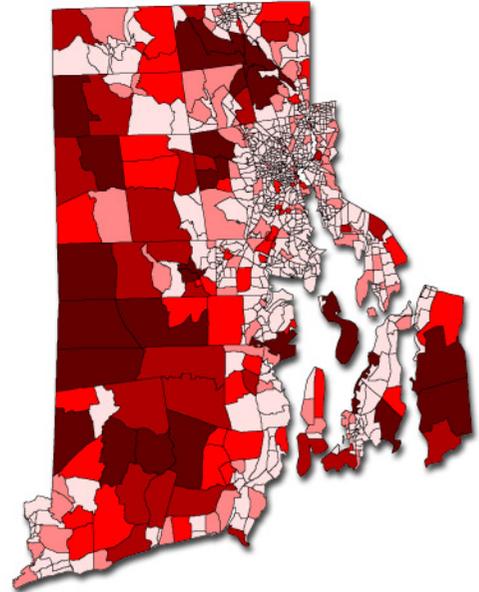
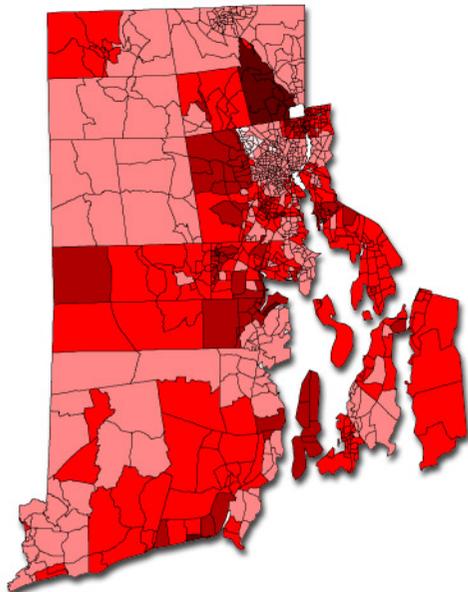
Critical Facilities Hazard Scores

Economic Hazard Scores



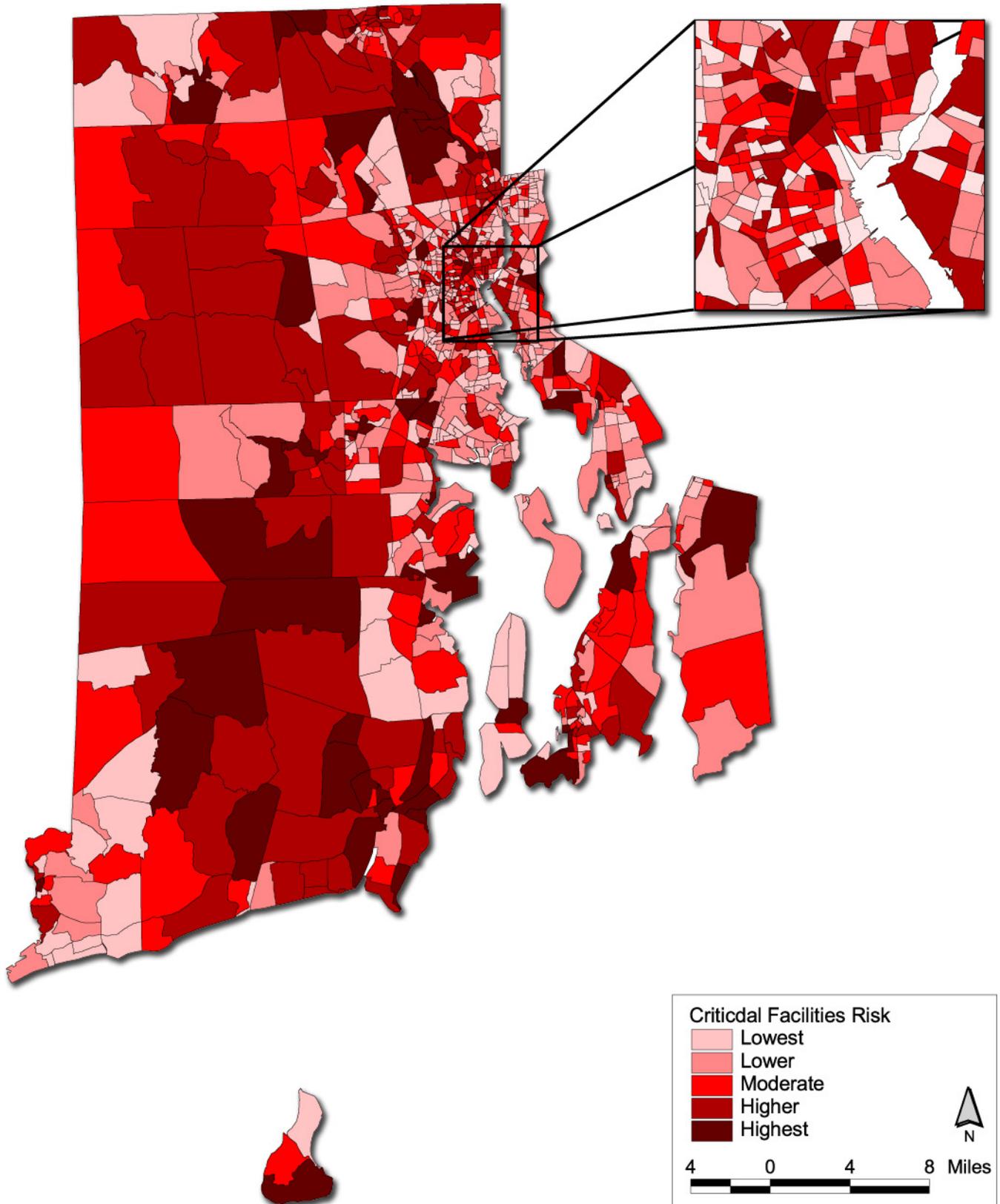
Social Hazard Scores

Environmental Hazard Scores



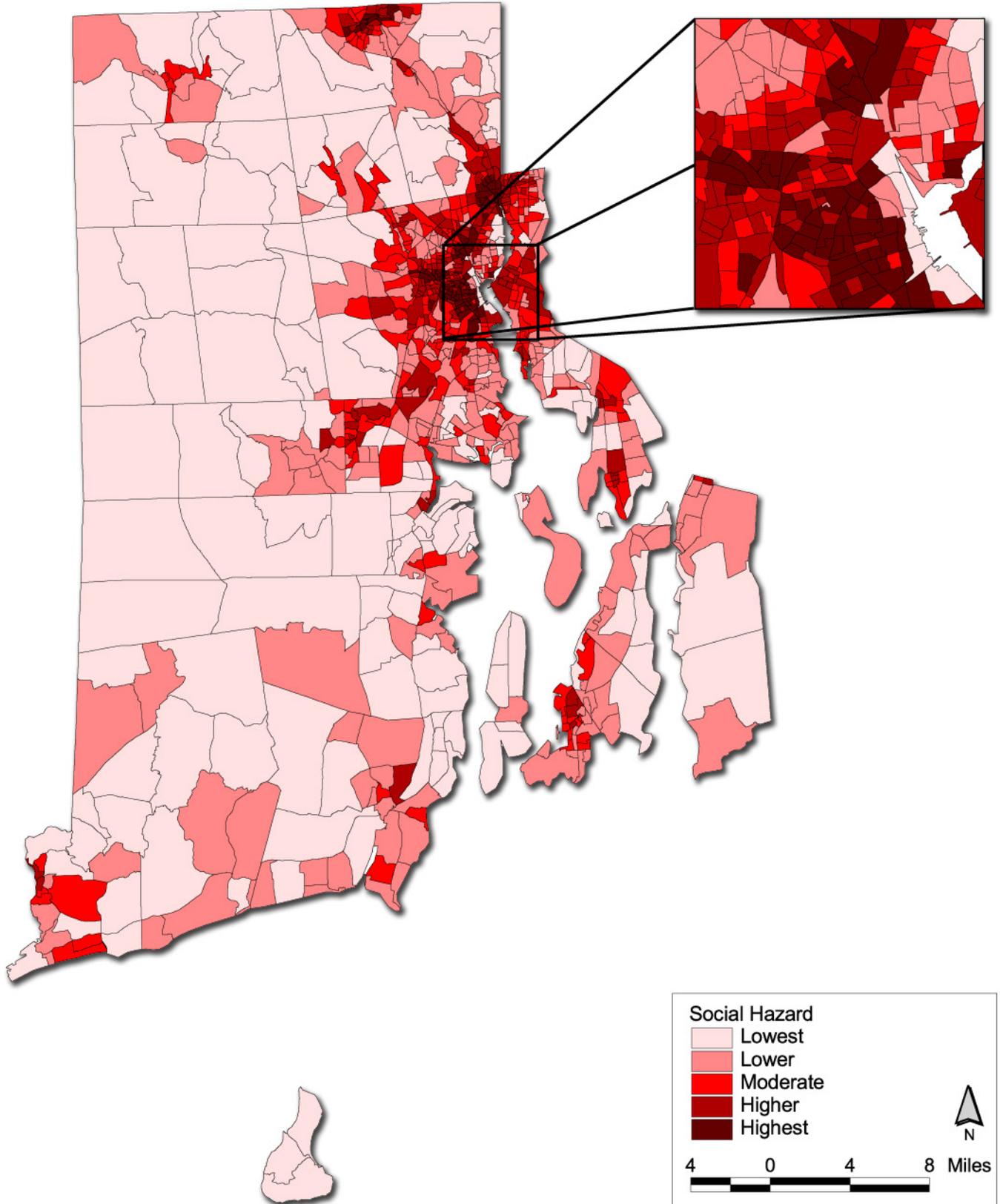
Combined Hazard to Critical Facilities

Derived by multiplying critical facilities exposure scores by combined hazard score.



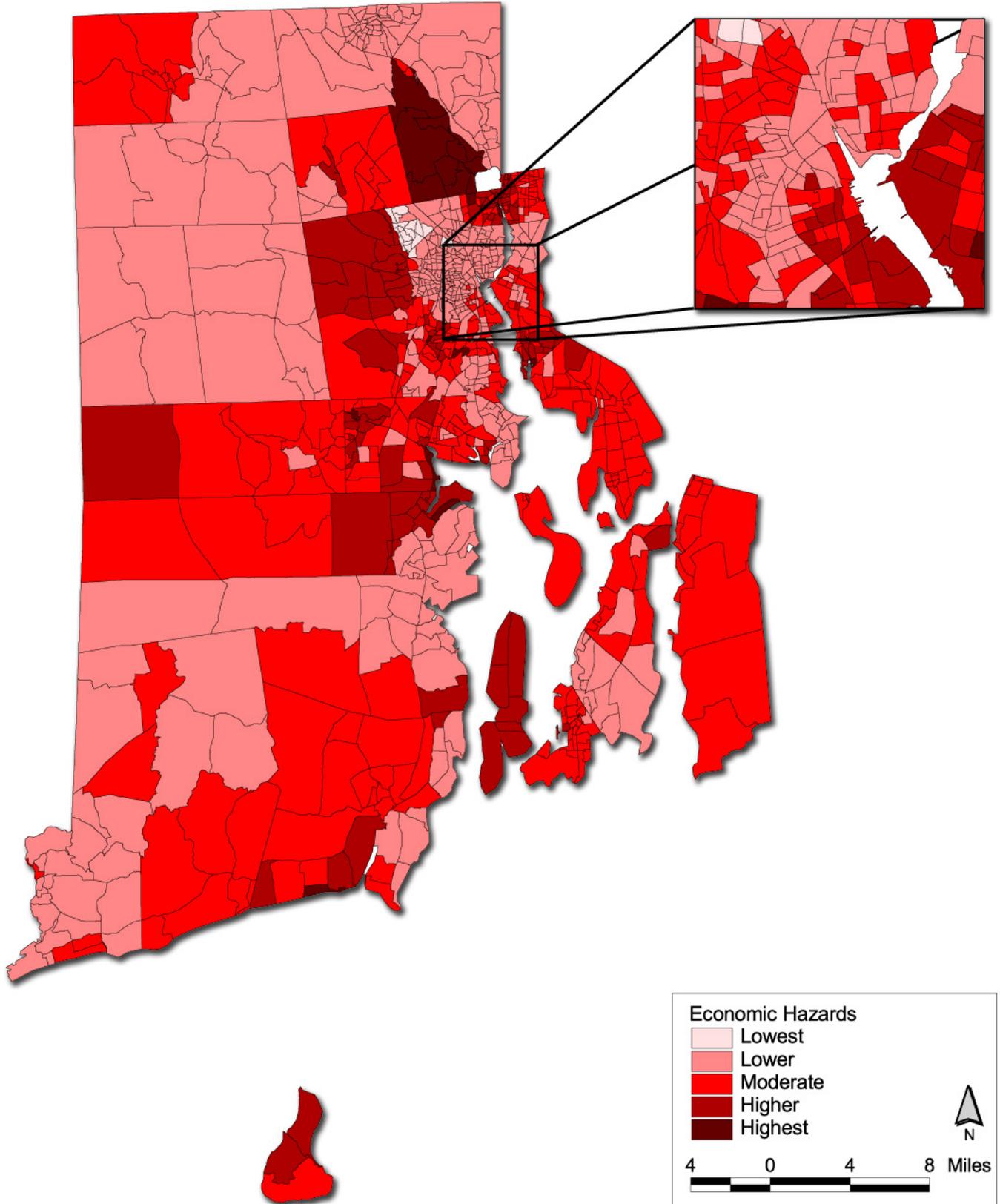
Social Hazard Map

Derived by multiplying social exposure scores with combined hazard scores



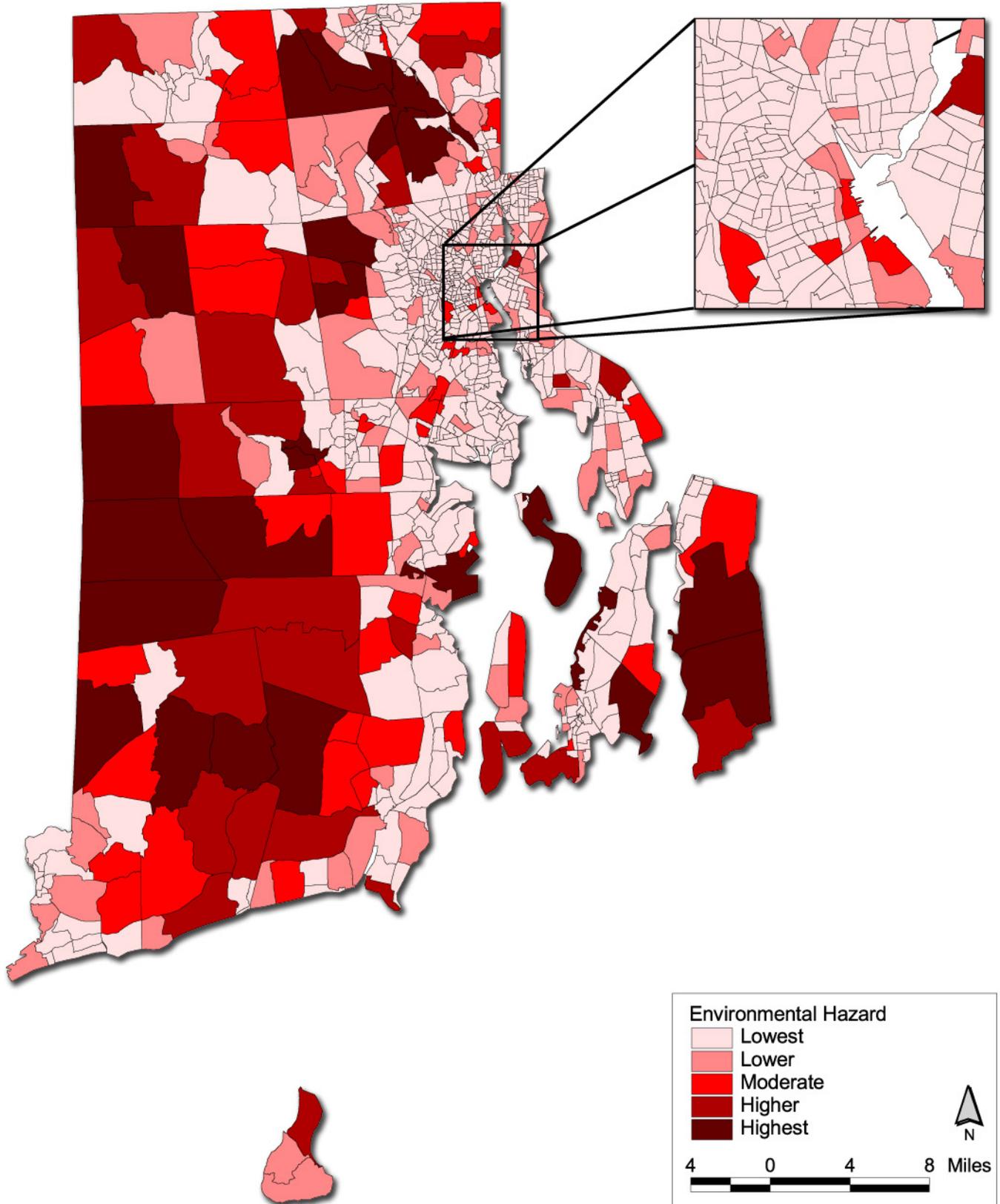
Economic Hazard Map

Derived by multiplying economic exposure scores with combined hazard scores



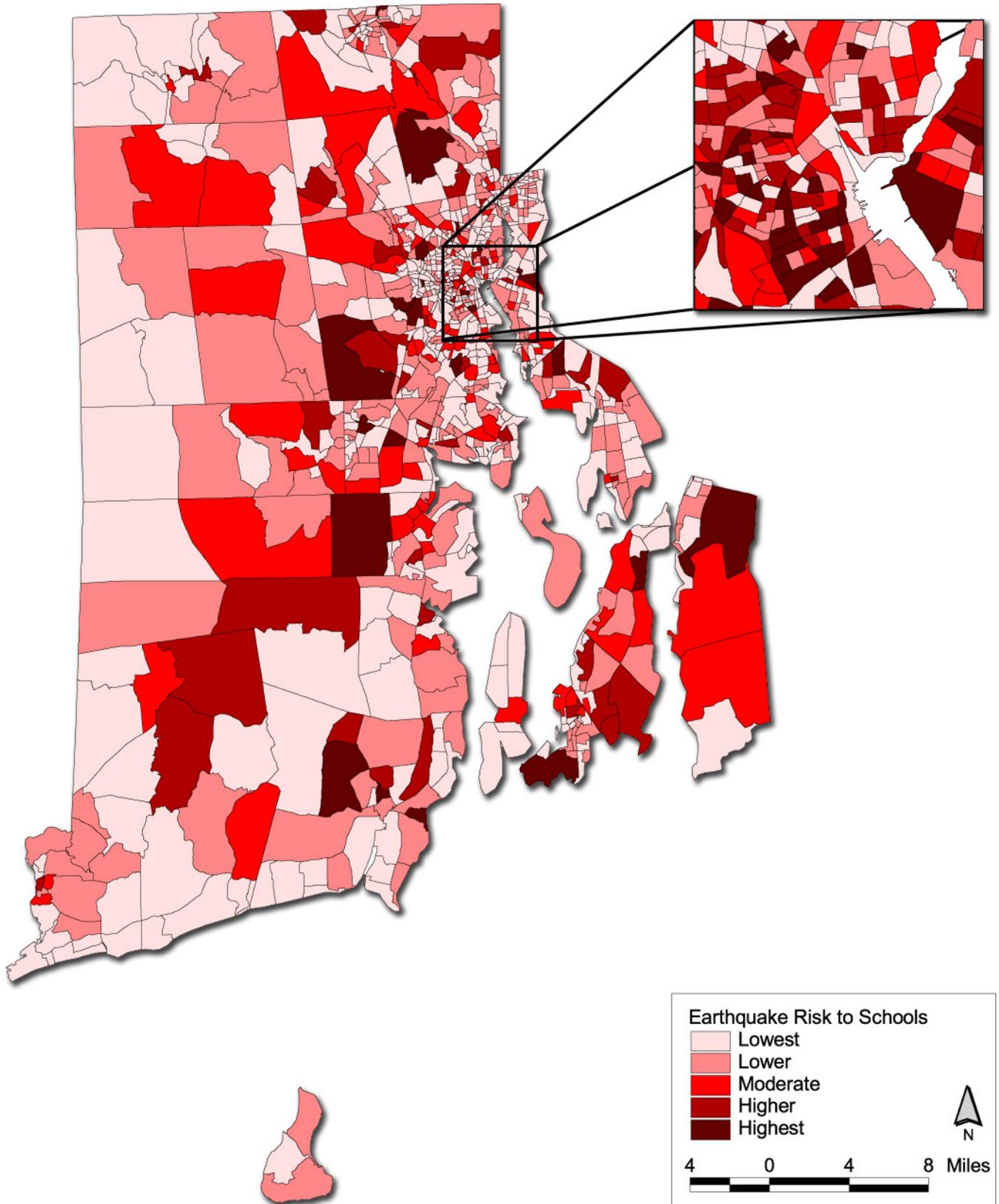
Environmental Hazard Map

Derived by multiplying environmental exposure scores with combined hazard scores



Schools at Earthquake Risk

Derived by multiplying critical facilities school exposure scores by combined hazard scores



Elderly Populations at Snow Risk

Derived by multiplying elderly population exposure scores with snow hazard scores

