



North Atlantic Coast Comprehensive Study: Resilient Adaptation to Increasing Risk

Planning Reaches Mapbook

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PLANNING REACHES MAPBOOK

NORTH ATLANTIC COAST COMPREHENSIVE STUDY:
RESILIENT ADAPTATION TO INCREASING RISK



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PLANNING REACHES MAPBOOK

On October 29, 2012, the remnants of Hurricane Sandy in the form of a post-tropical cyclone made landfall near Brigantine, NJ. Because of its tremendous size, the storm drove catastrophic storm surge into the New Jersey and New York Coastlines. As part of the extensive recovery effort, the U.S. Army Corps of Engineers (USACE) was authorized to complete the North Atlantic Coast Comprehensive Study (NACCS) by the Disaster Relief Appropriations Act of 2013, Public Law 113-2, enacted on January 29, 2013.

I. Purpose

The NACCS study area is the Atlantic coastline, back bay shorelines, and estuaries within portions of the USACE North Atlantic Division. A total of 39 planning reaches were delineated to offer smaller units than State entities presented in the NACCS Appendix D – State and District of Columbia Analyses (USACE, 2015). The NACCS Planning Reaches Mapbook presents a compilation of figures at the planning reach scale for each of the jurisdictions represented in the NACCS Appendix D – State and District of Columbia Analyses. The following sections present the map series for the corresponding planning reaches for each respective state, including the following: Planning Reaches, Federal Projects Included in the Post-Hurricane Sandy Landscape Condition, State Projects Included in the Post-Hurricane Sandy Landscape Condition (if state data was available), USACE High Scenario Future Mean Sea Level Change Inundation, USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase, Impacted Area Category 1-4 Water Levels, Impacted Area 1-Percent Flood plus 3 Feet Water Surface, Impacted Area 10-Percent Flood Water Surface, Population and Infrastructure Exposure Index, Social Vulnerability Characterization Exposure Index, Environmental and Cultural Resources Exposure Index, Composite Exposure Index, Risk Assessment, Shoreline Types, and Natural and Nature-Based Features (NNBF) Measures Screening. The States of New Hampshire and Connecticut, along with the District of Columbia, include only one planning reach, so information presented in the NACCS Appendix D – State and District of Columbia Analyses for those states are not included in the Planning Reaches Mapbook.

II. States and Planning Reaches

The following subsections present various figures associated with the map series presented in the NACCS Appendix D – State and District of Columbia Analyses for each corresponding state (USACE, 2015).

a. Commonwealth of Massachusetts

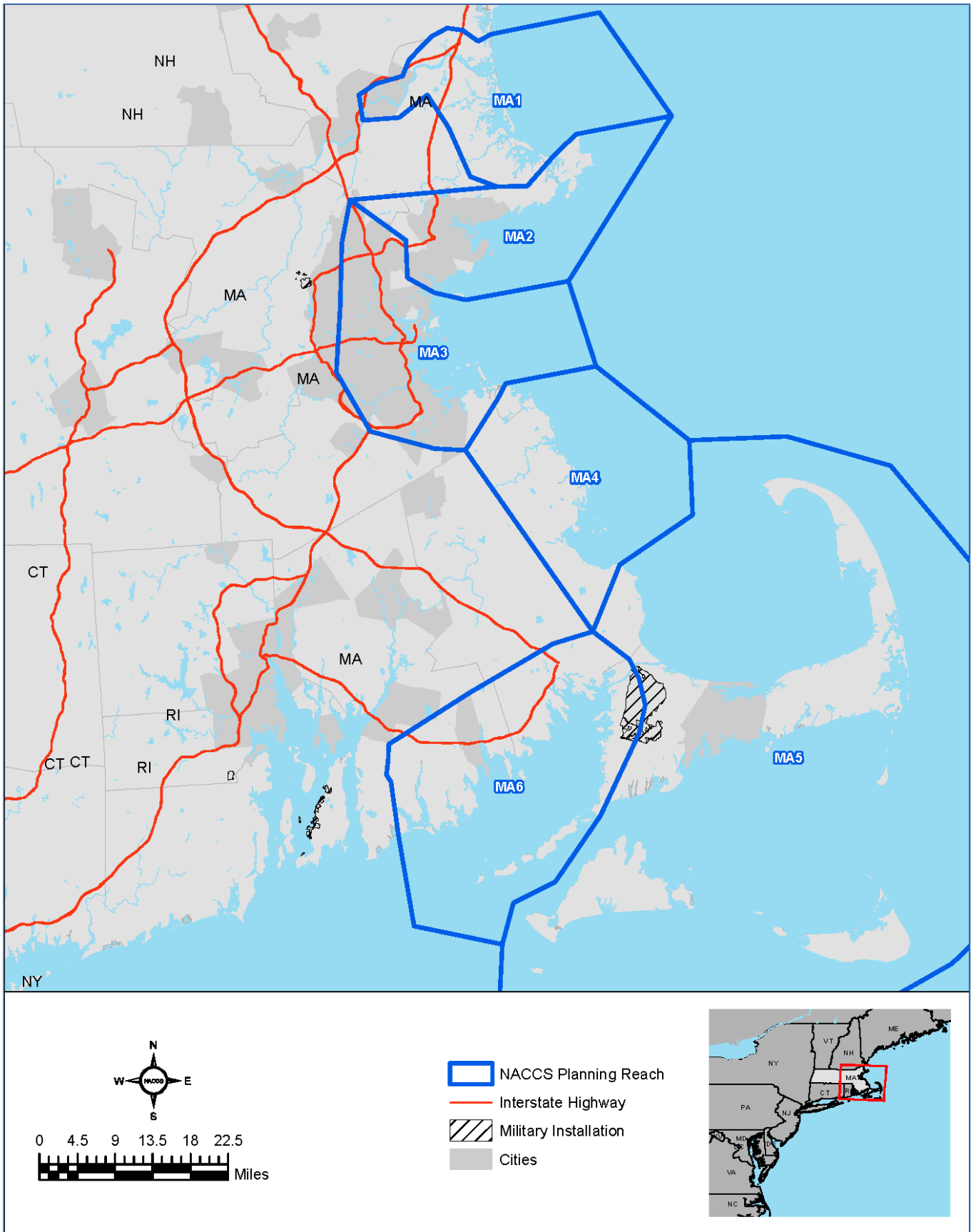


Figure 11a-1: Planning Reaches for the Commonwealth of Massachusetts

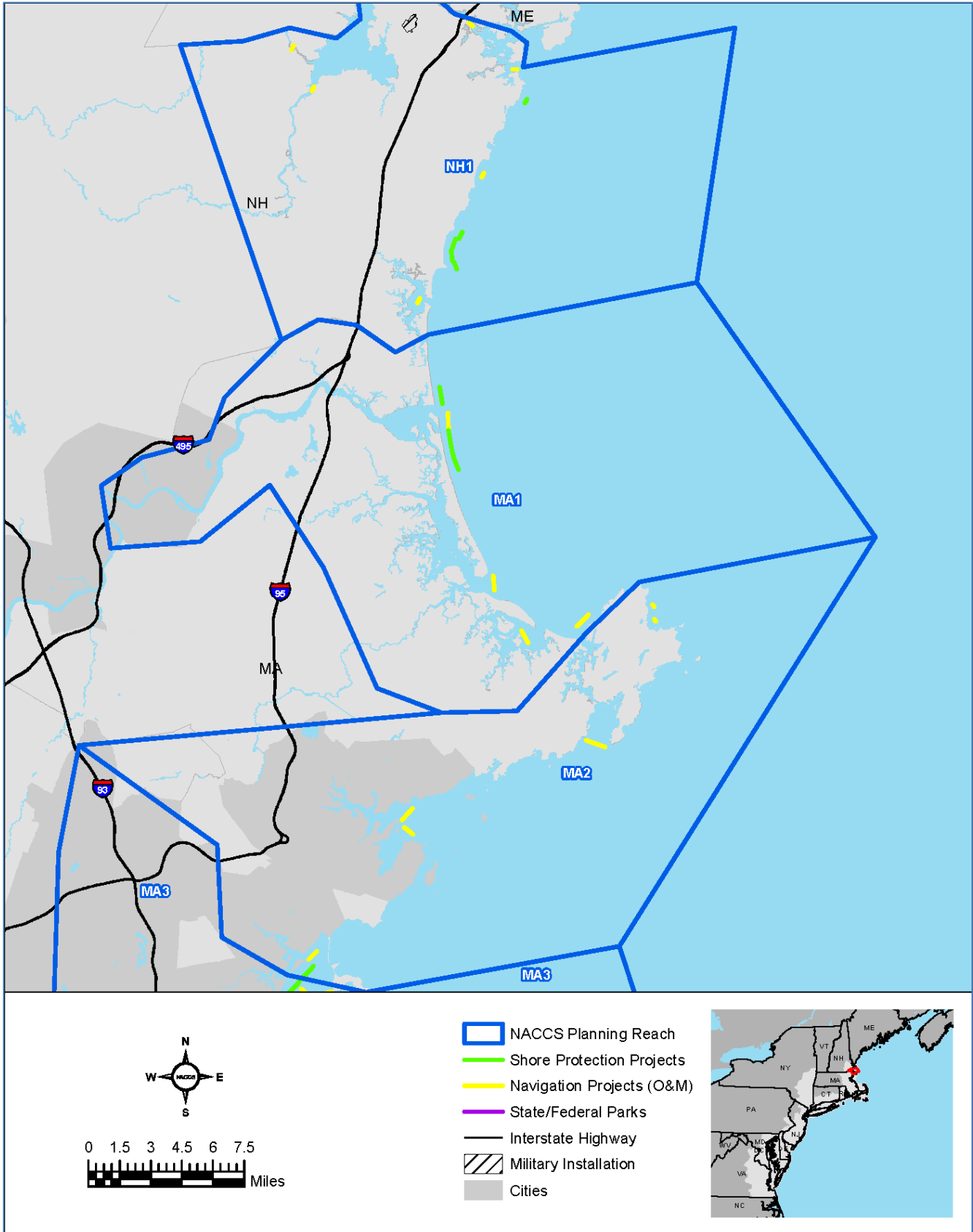


Figure 11a-2: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MA1)

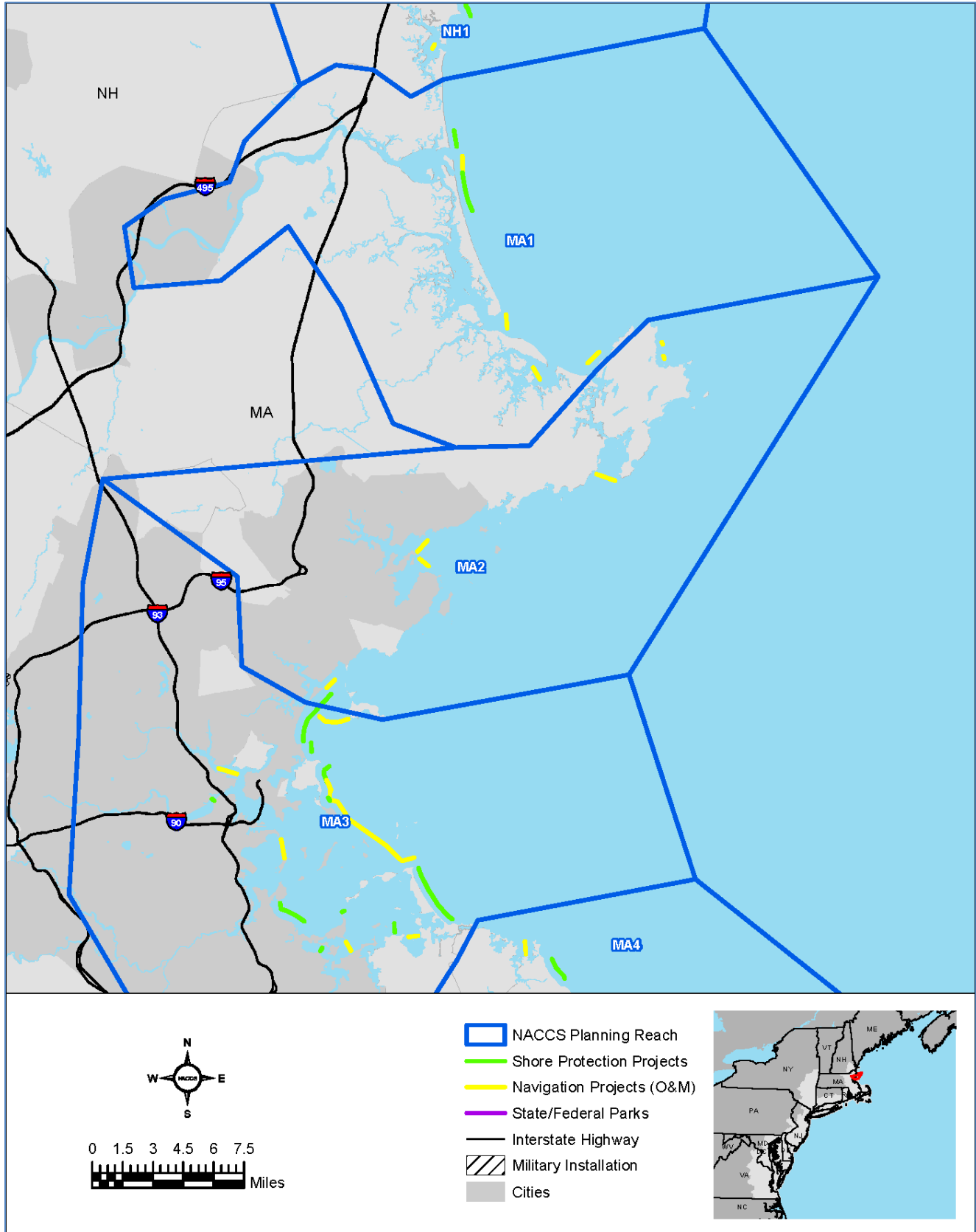


Figure 11a-3: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MA2)

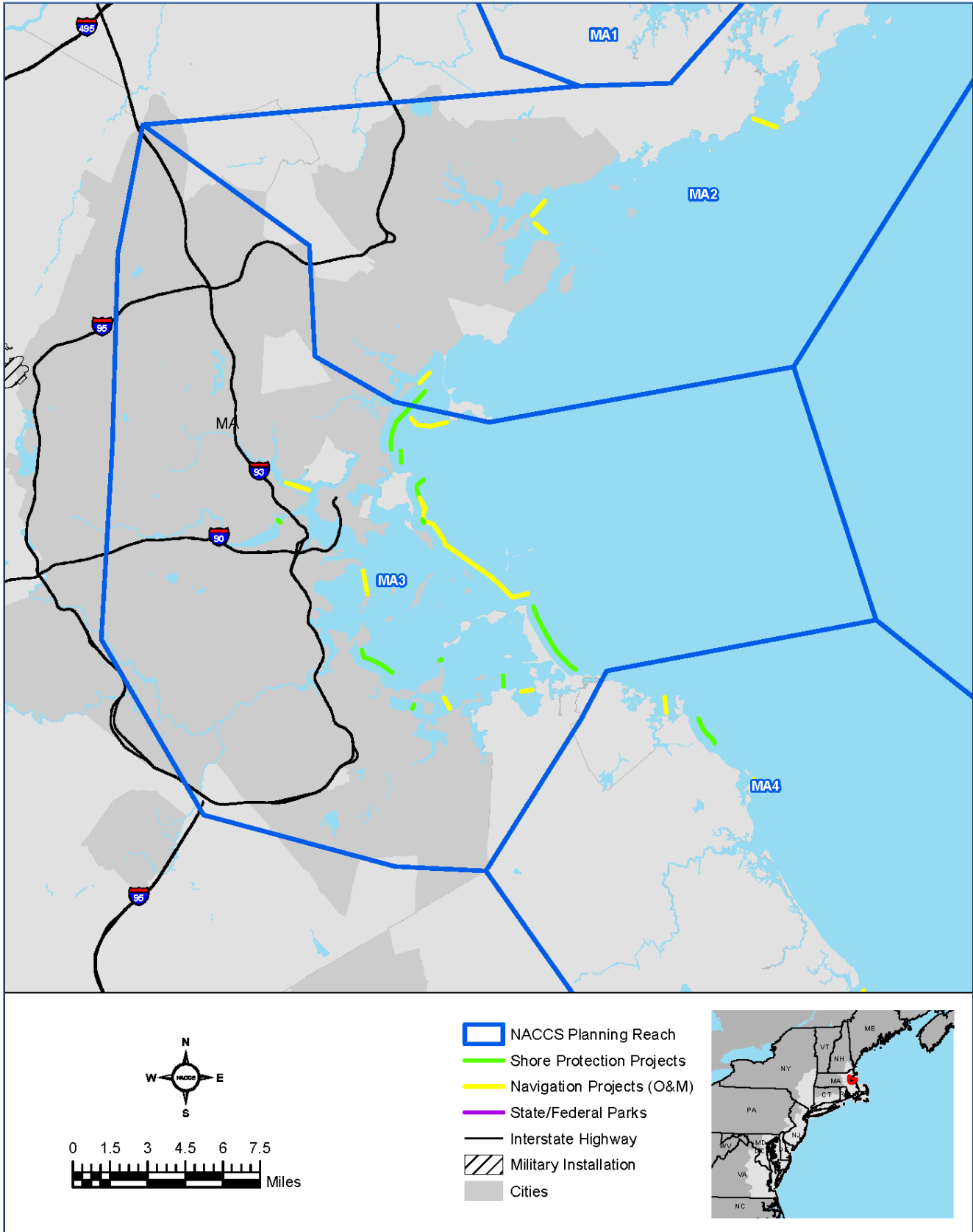


Figure 11a-4: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MA3)

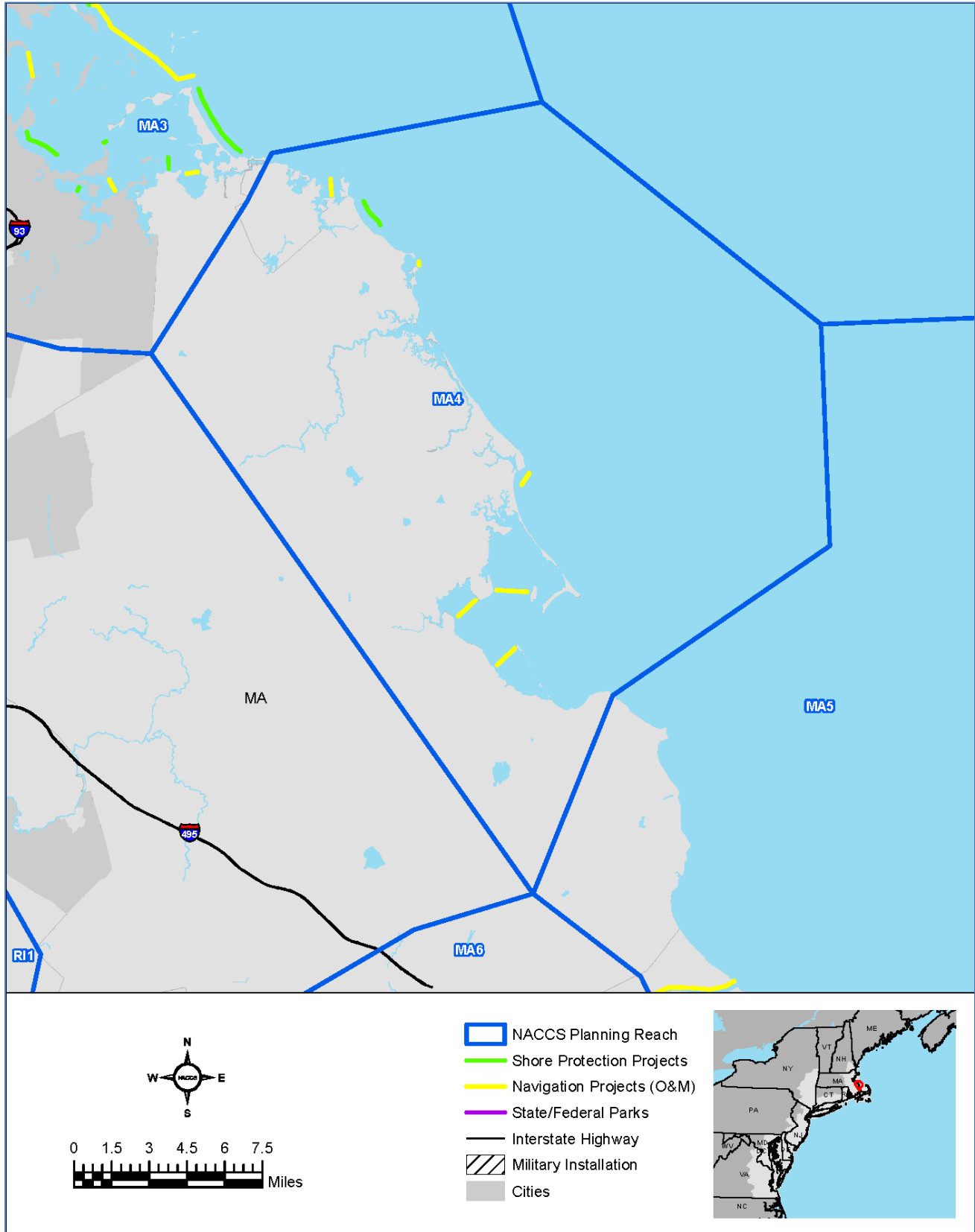


Figure 11a-5: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MA4)

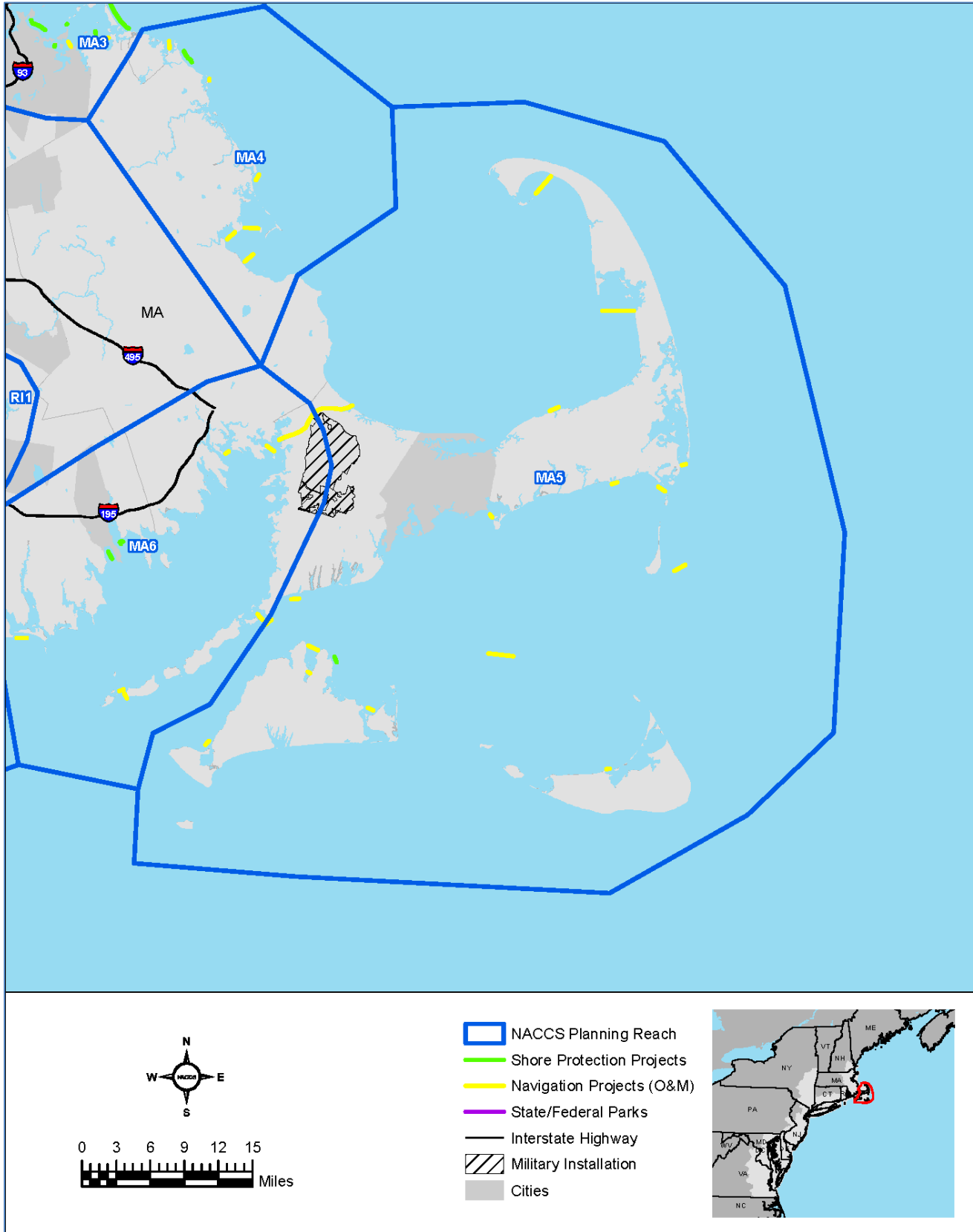


Figure 11a-6: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MA5)

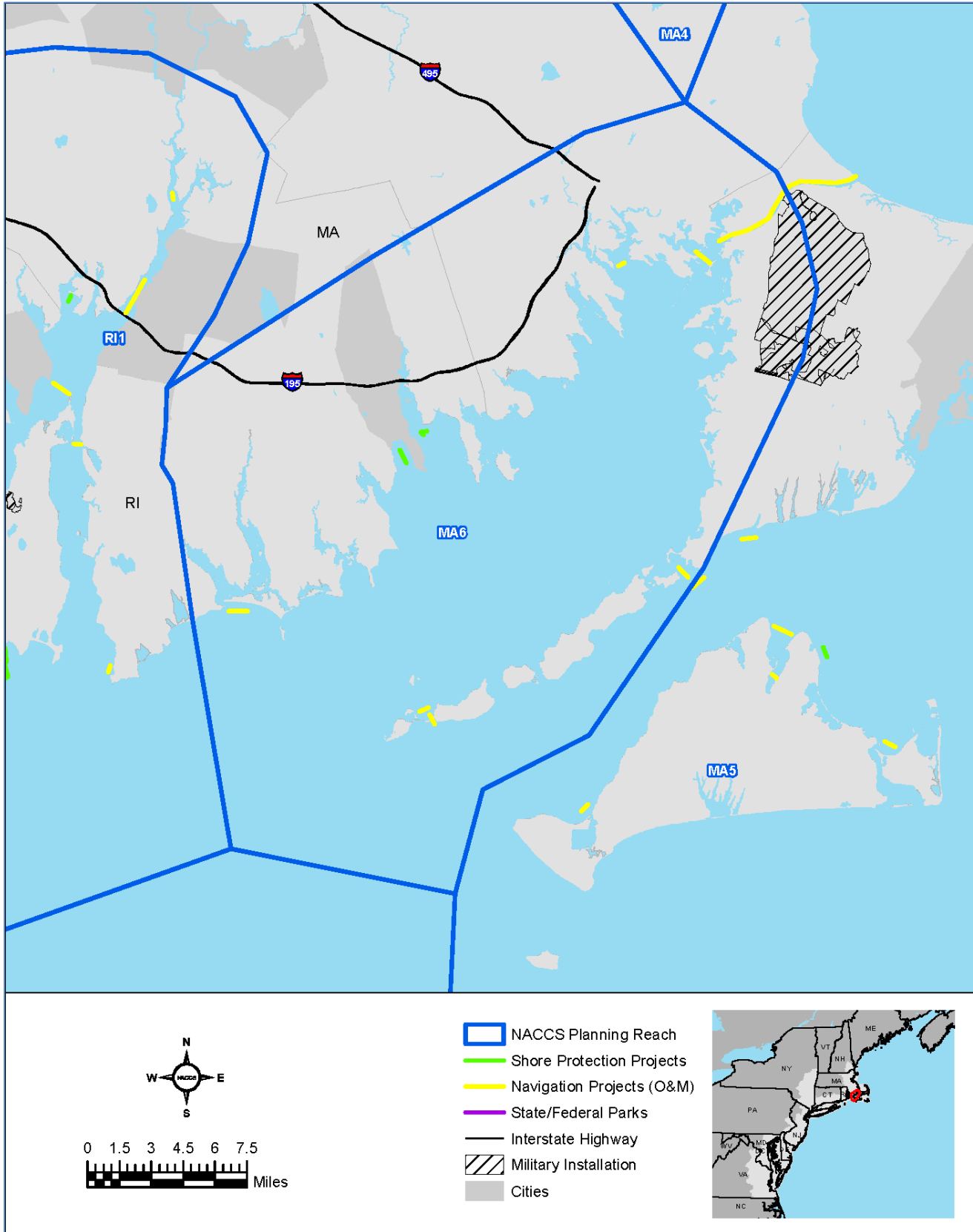


Figure 11a-7: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MA6)

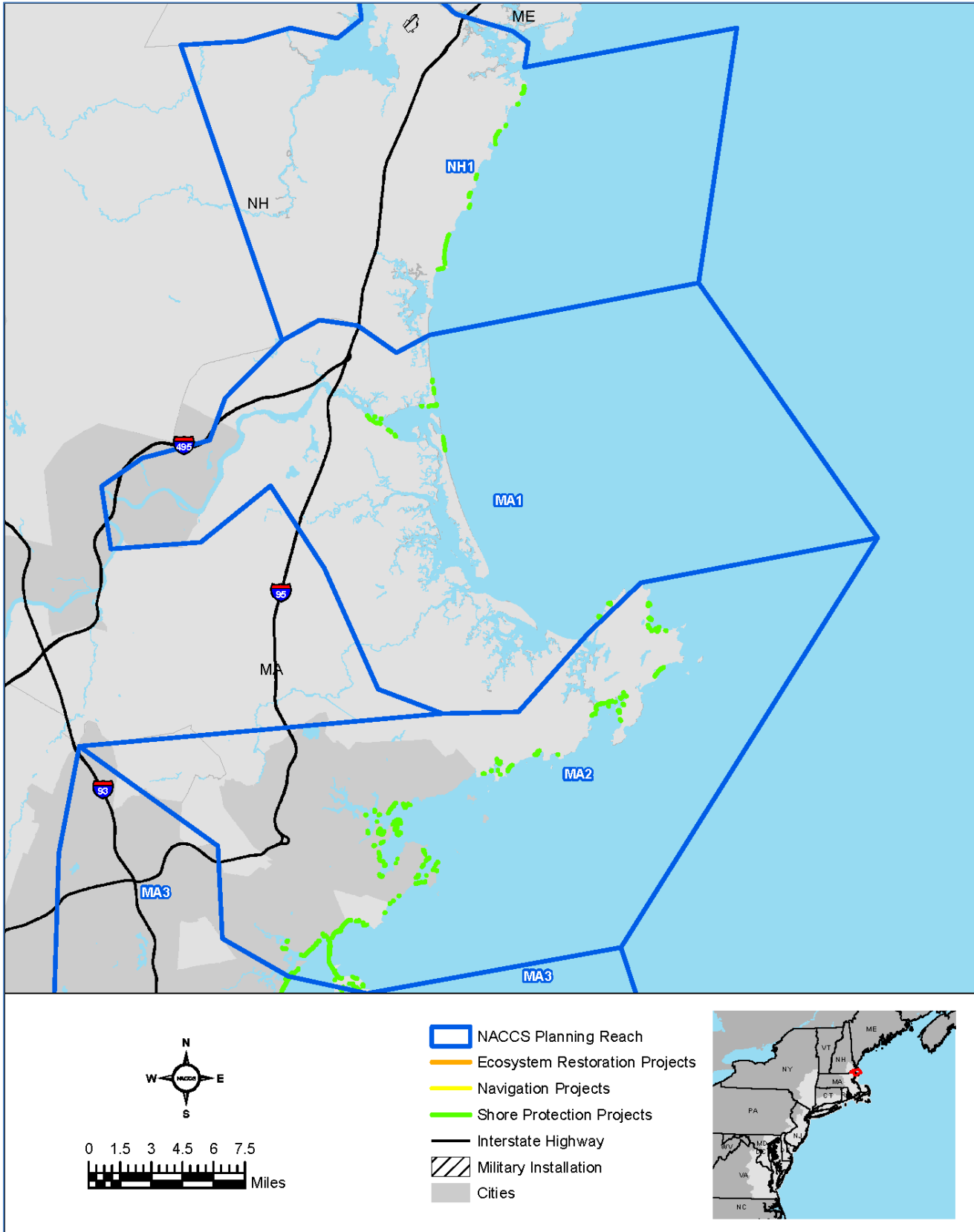


Figure 11a-8: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MA1)

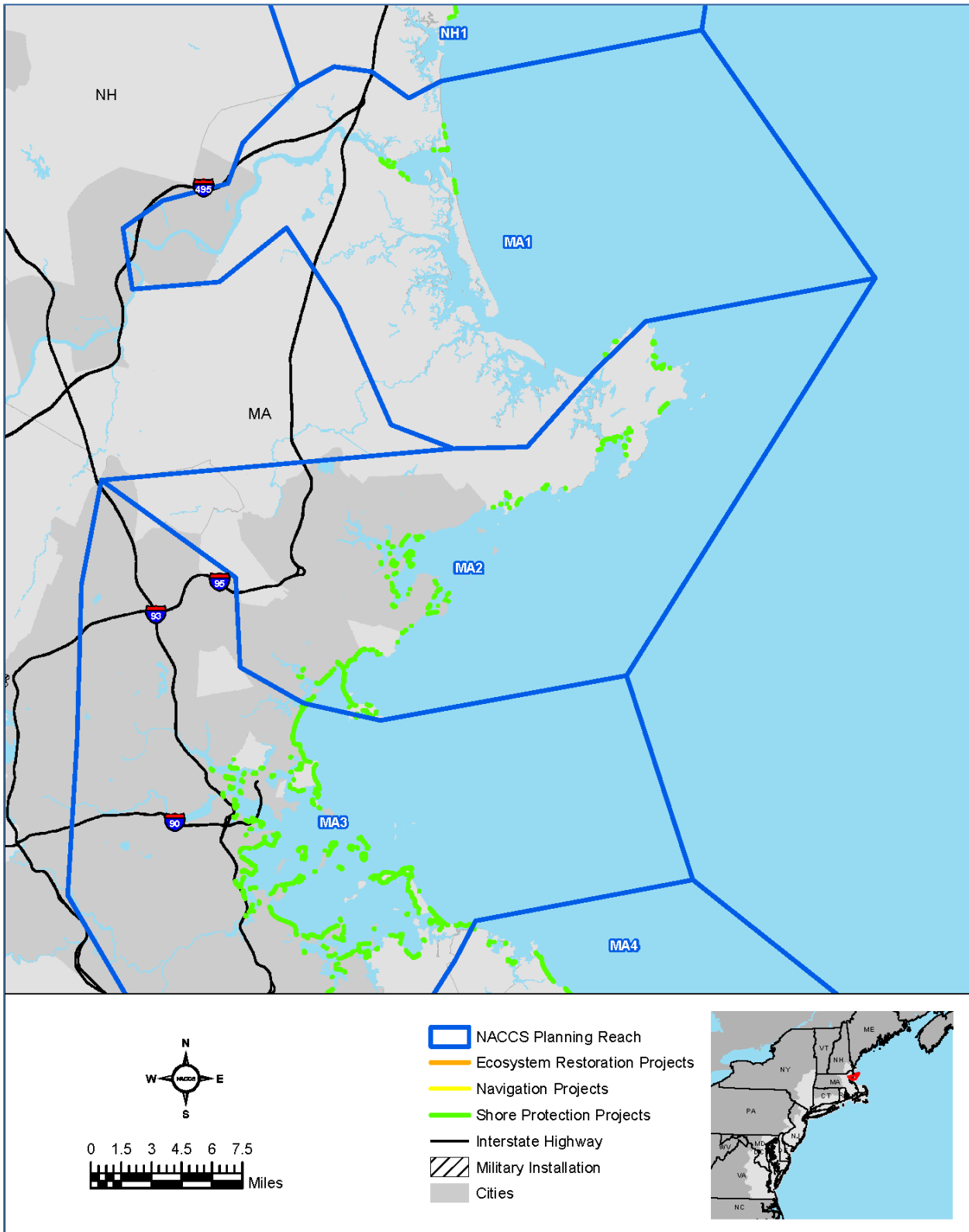


Figure 11a-9: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MA2)

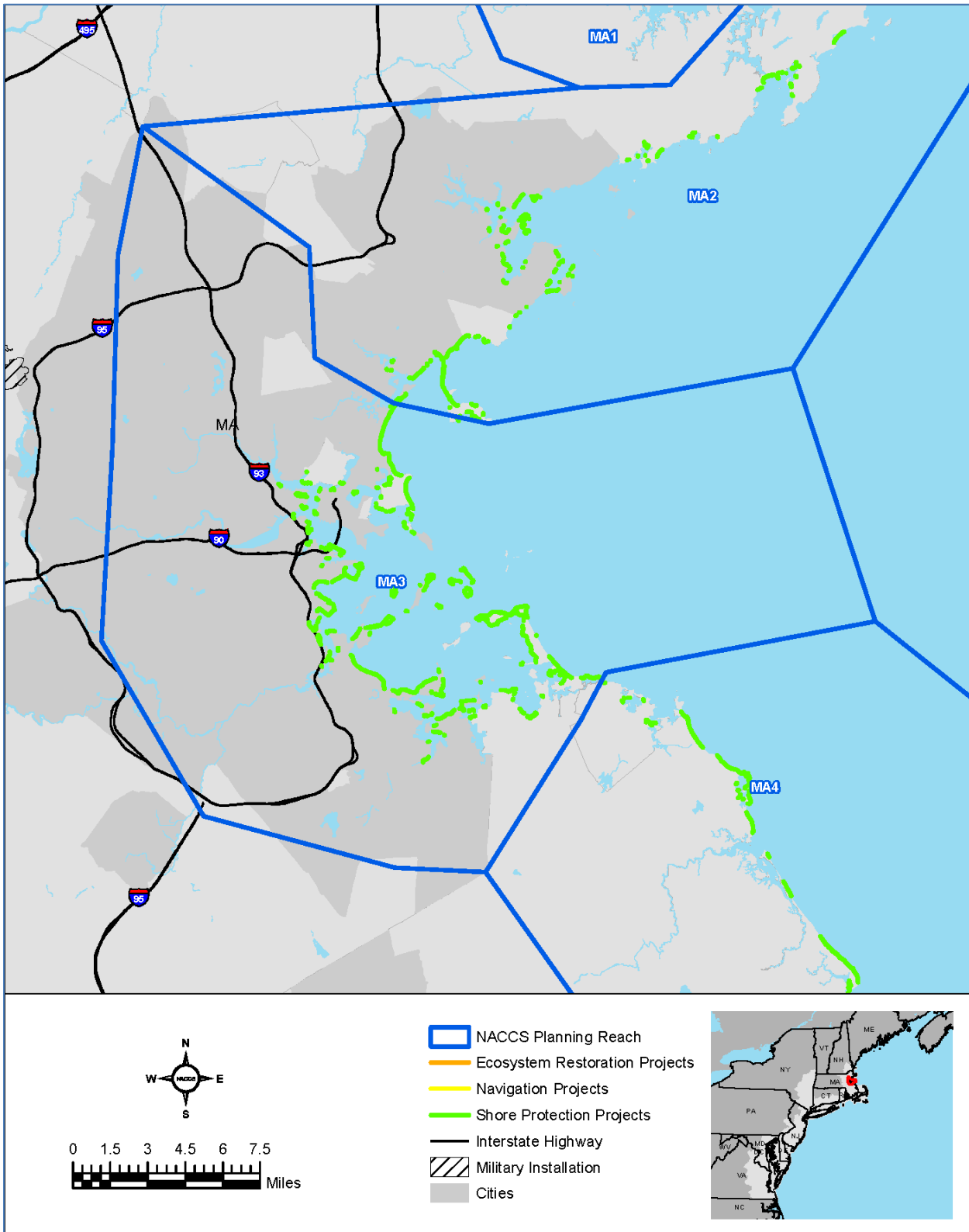


Figure Ila-10: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MA3)

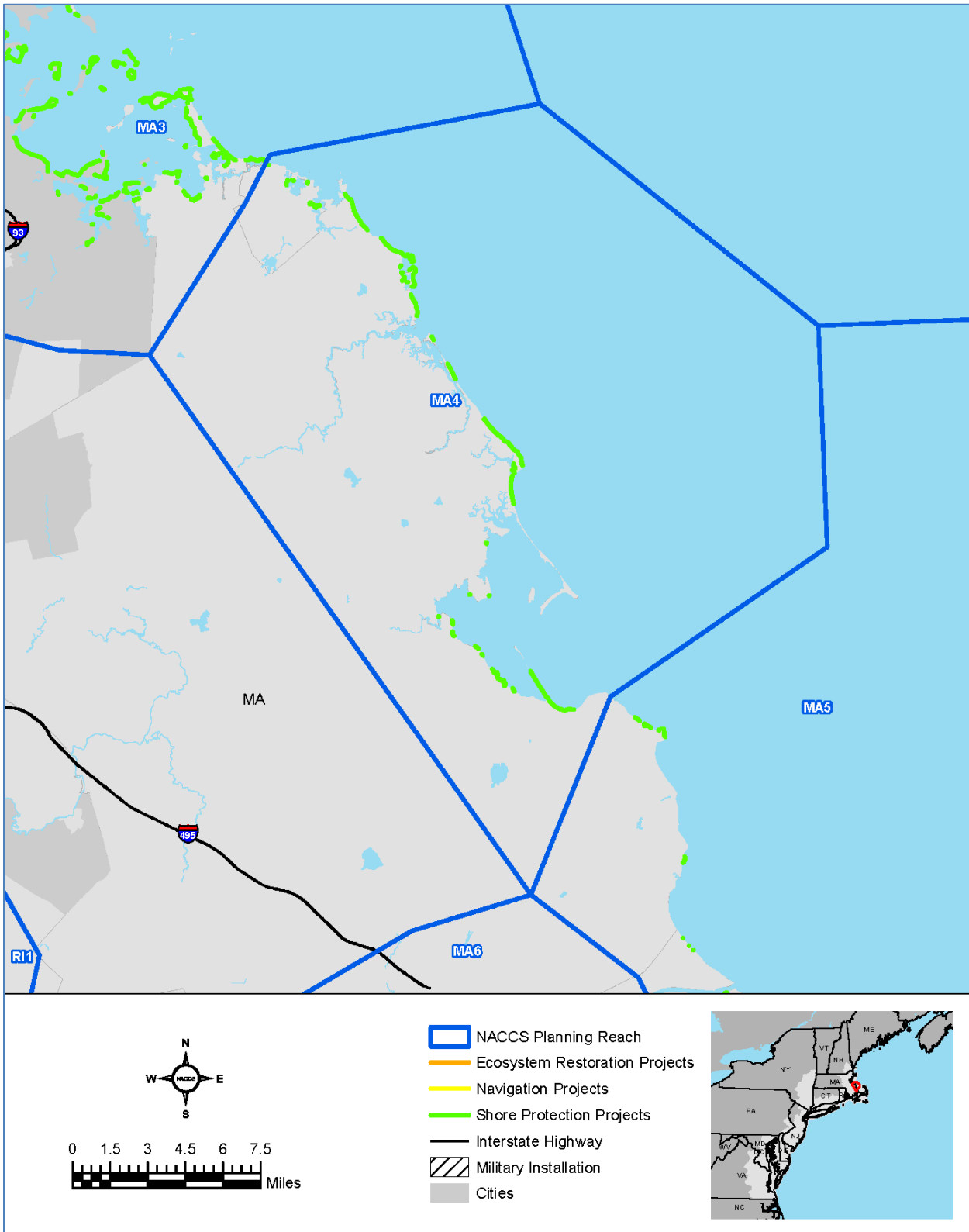


Figure 11a-11: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MA4)

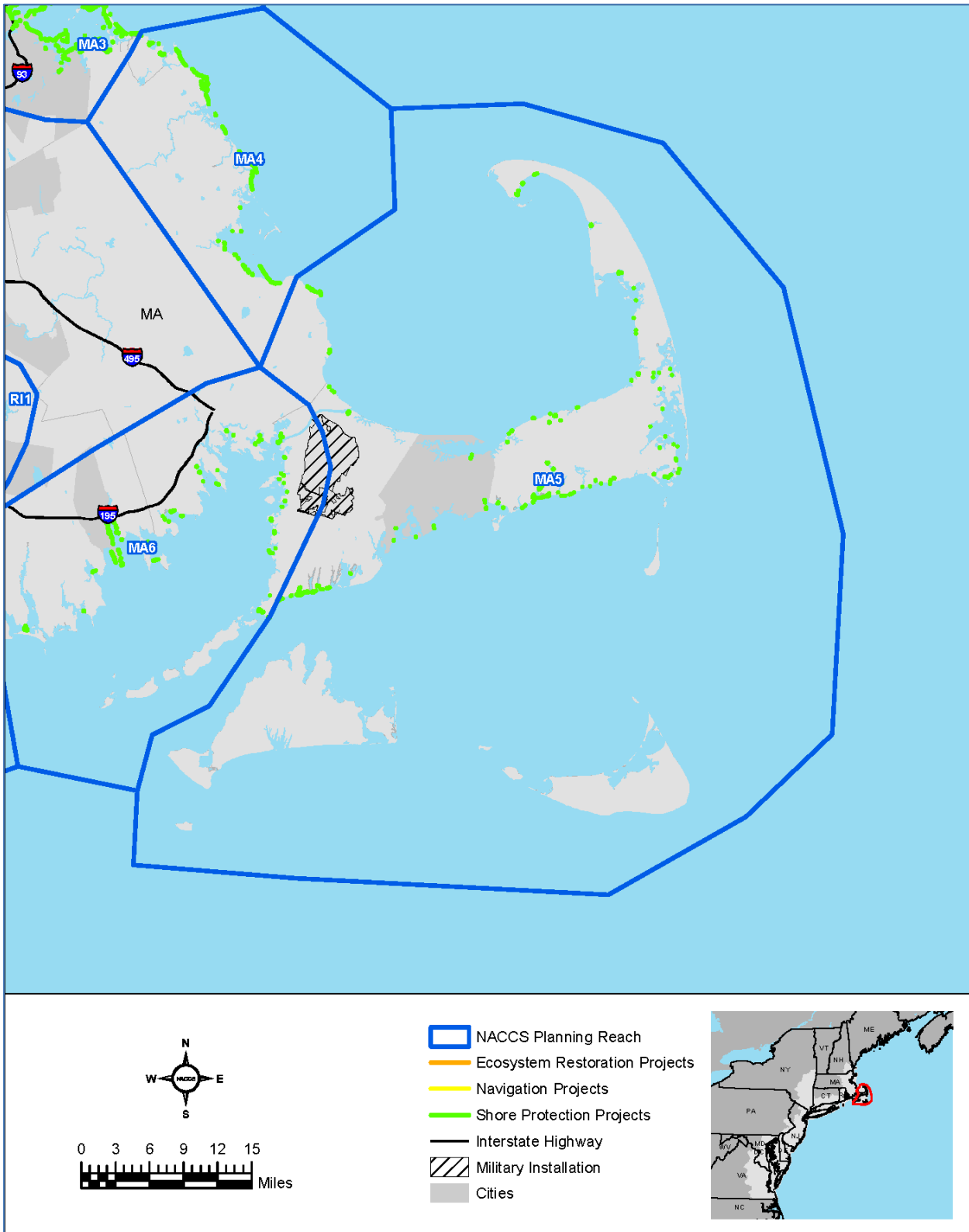


Figure Ila-12: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MA5)

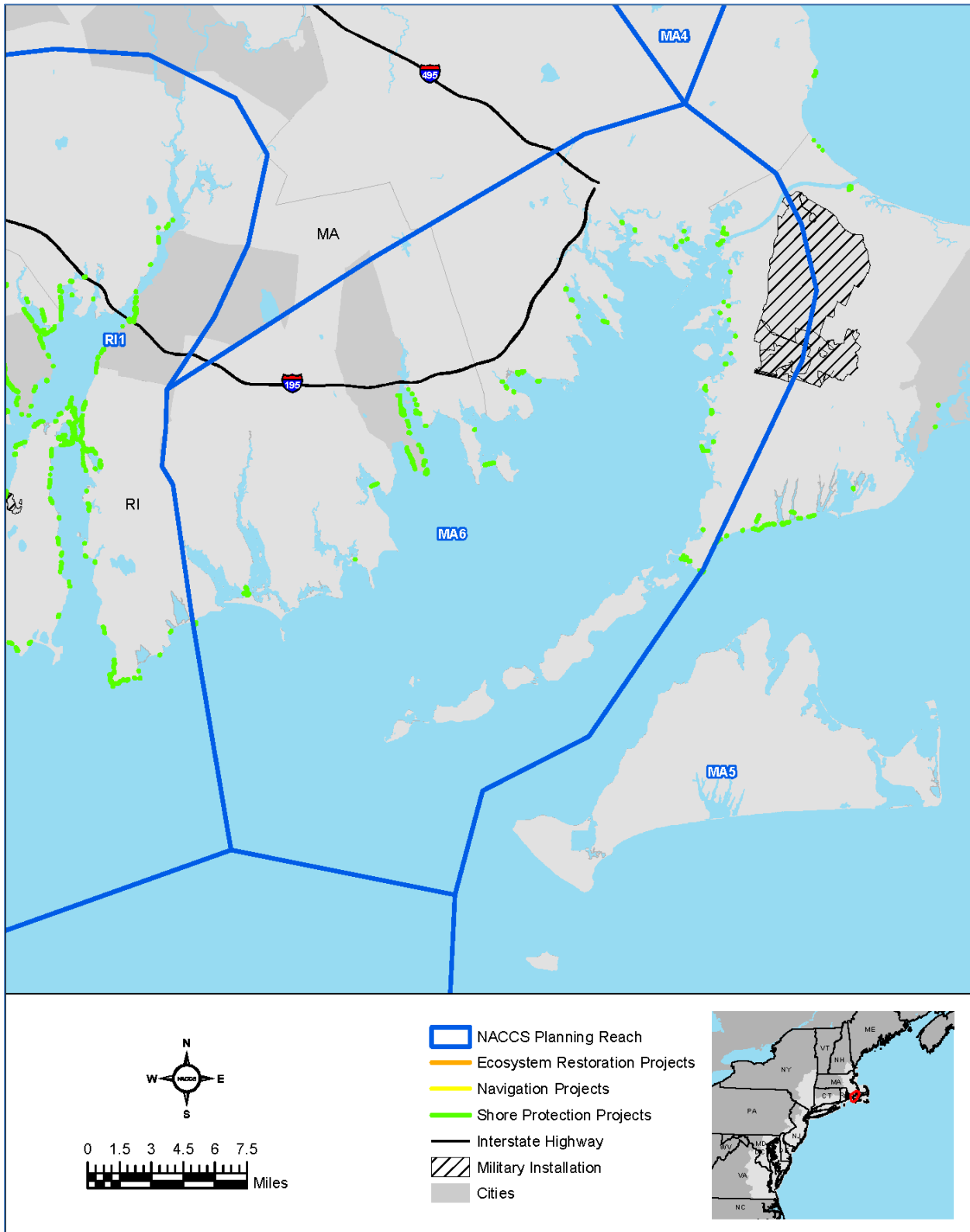


Figure Ila-13: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MA6)

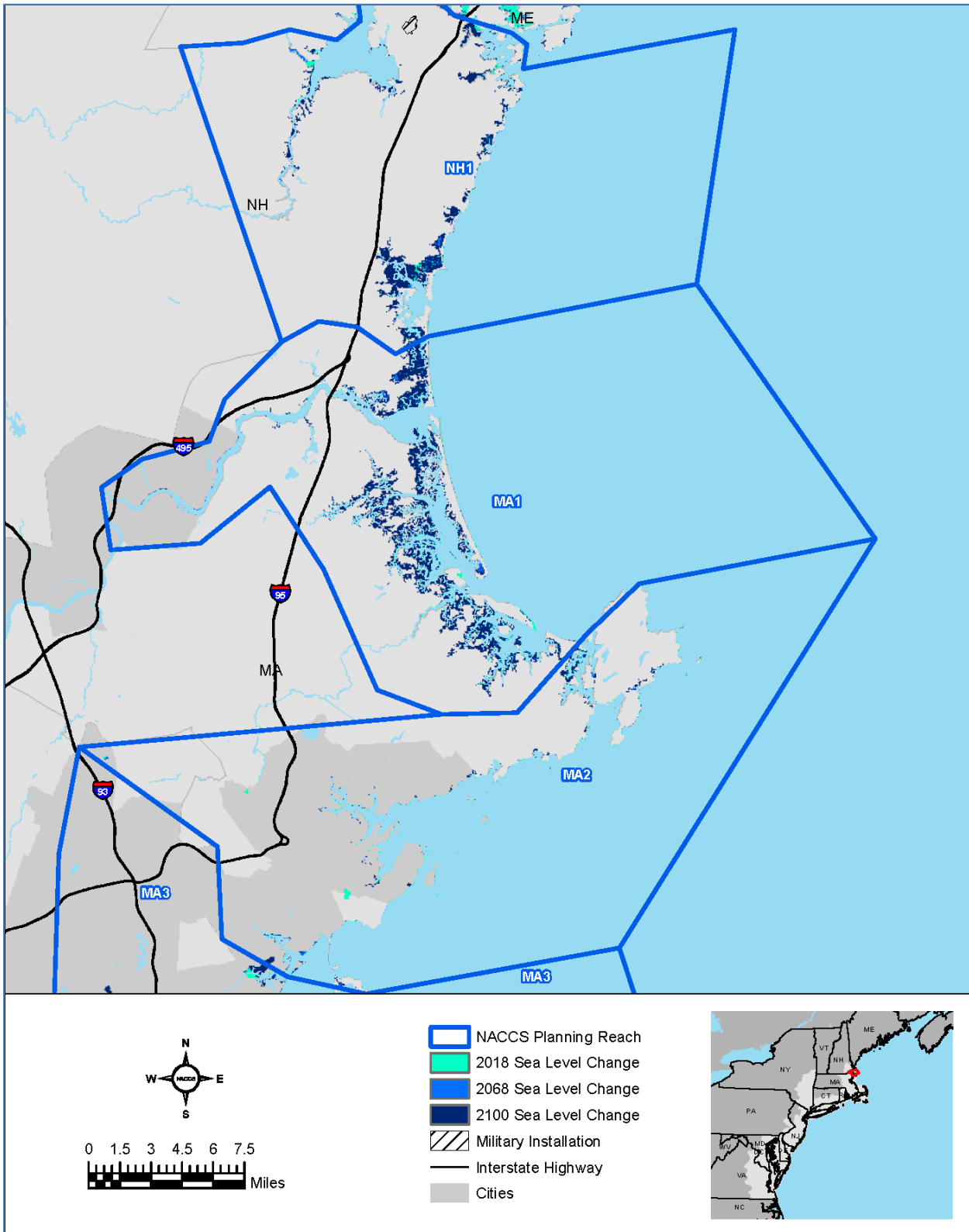


Figure Ila-14: USACE High Scenario Future Mean Sea Level Change Inundation (MA1)

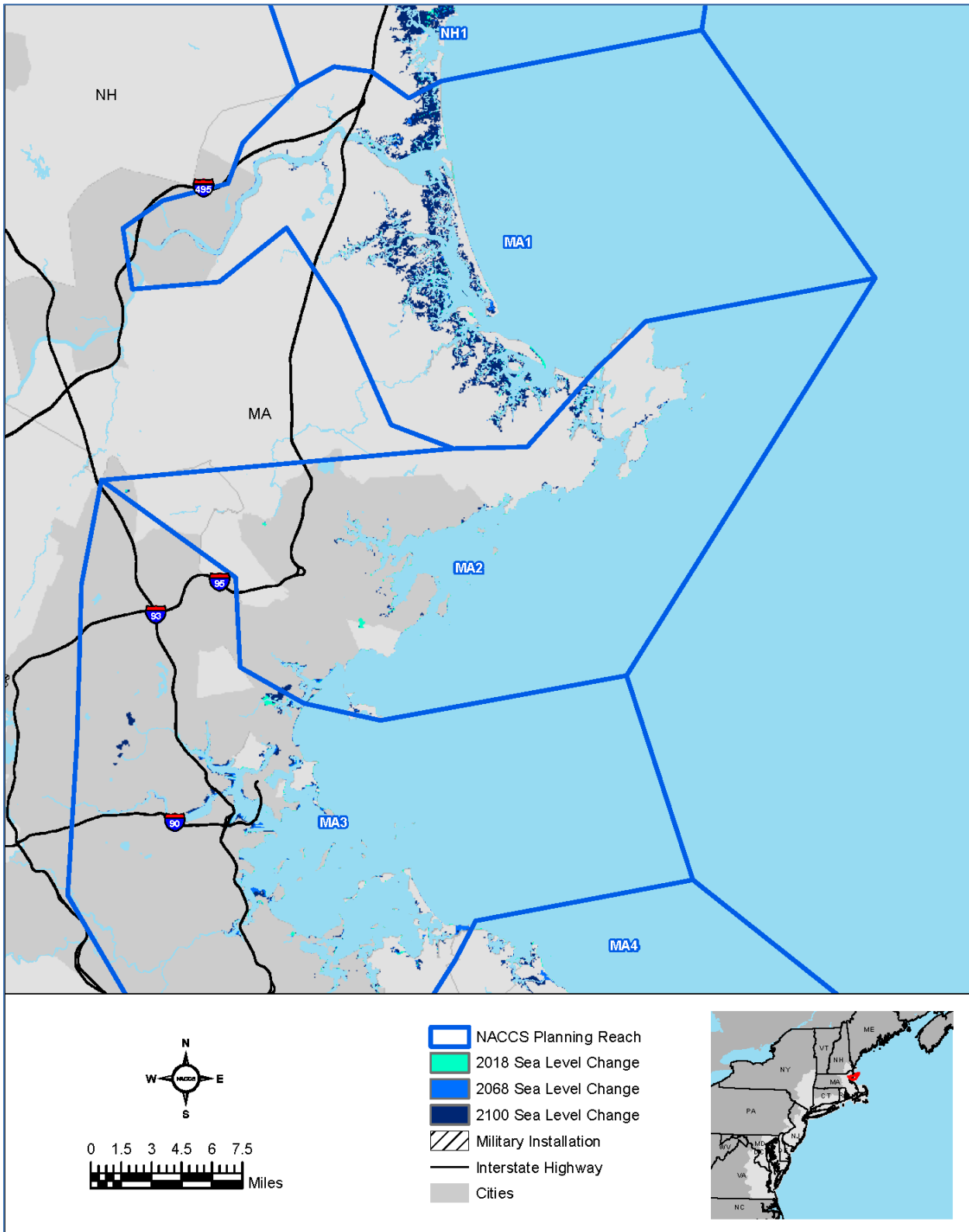


Figure 11a-15: USACE High Scenario Future Mean Sea Level Change Inundation (MA2)

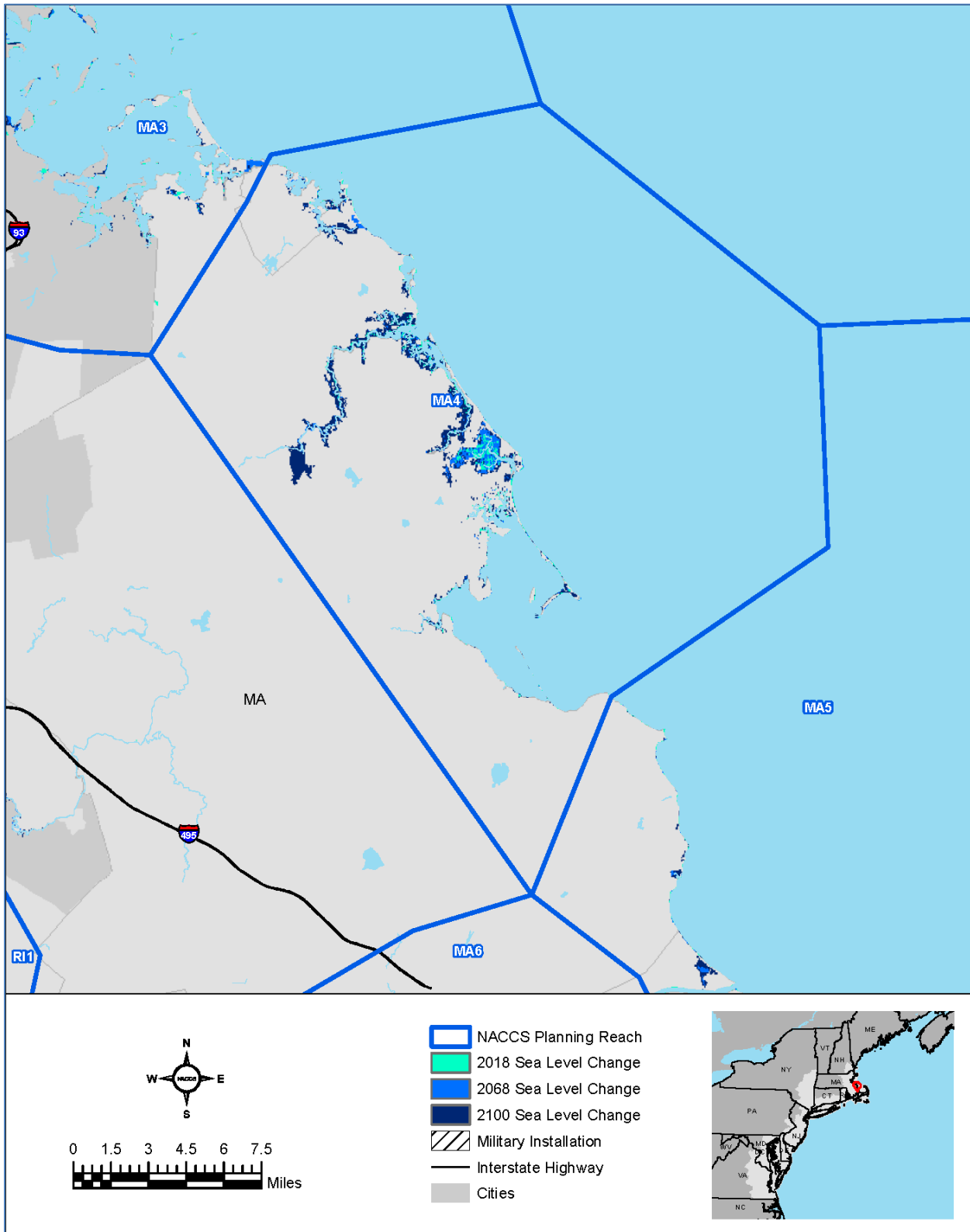


Figure 11a-17: USACE High Scenario Future Mean Sea Level Change Inundation (MA4)

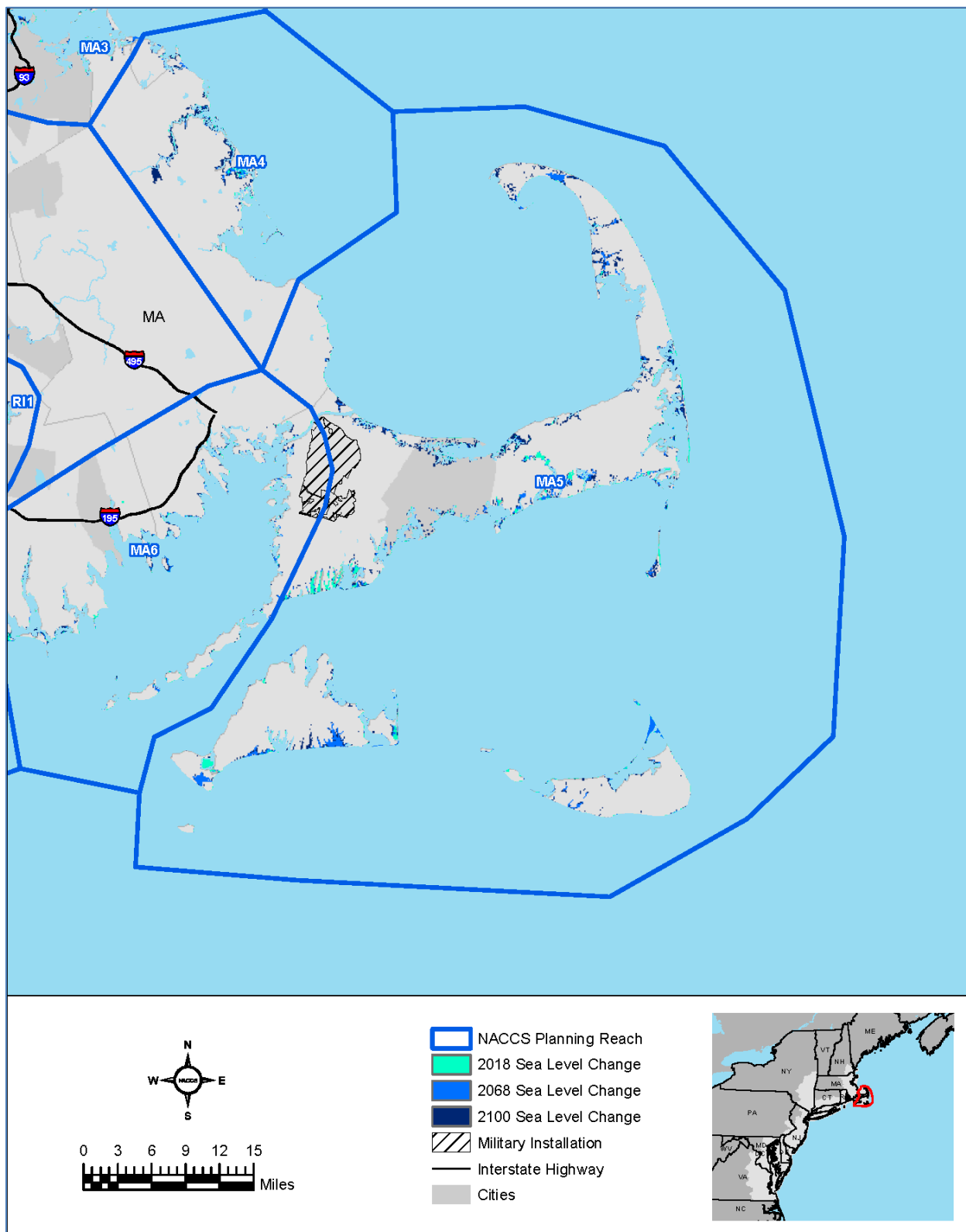


Figure Ila-18: USACE High Scenario Future Mean Sea Level Change Inundation (MA5)

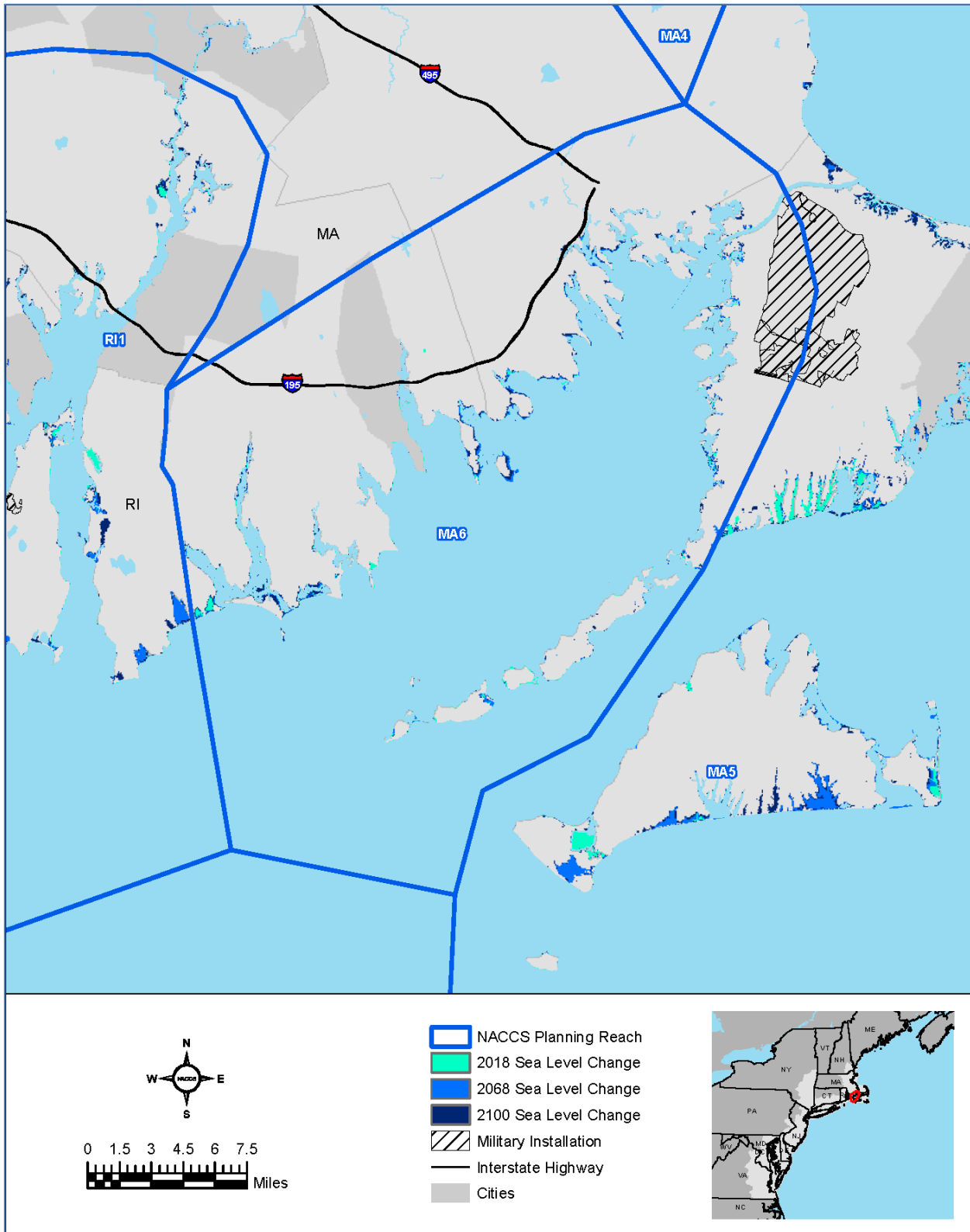


Figure IIa-19: USACE High Scenario Future Mean Sea Level Change Inundation (MA6)

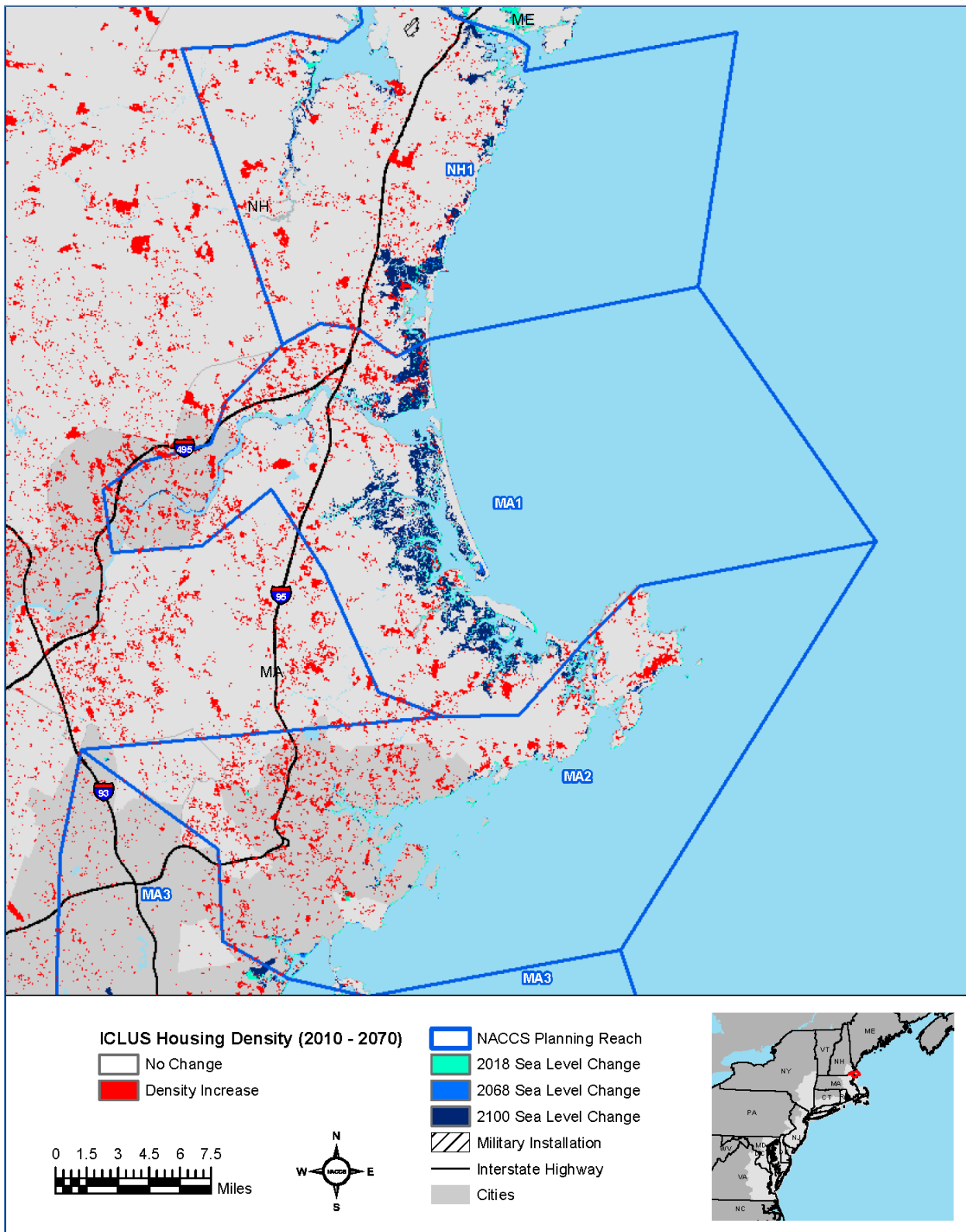


Figure 11a-20: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MA1)

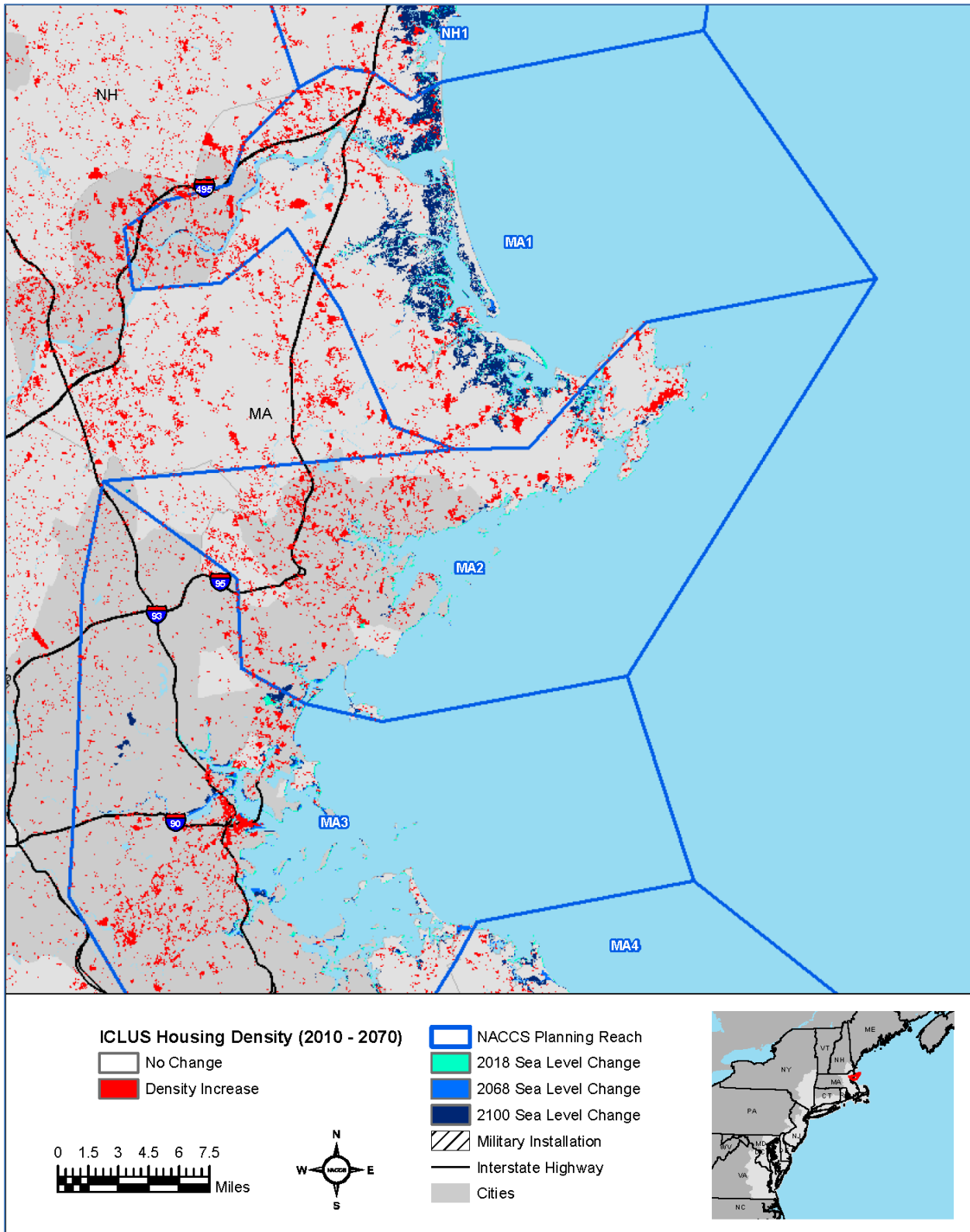


Figure 11a-21: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MA2)

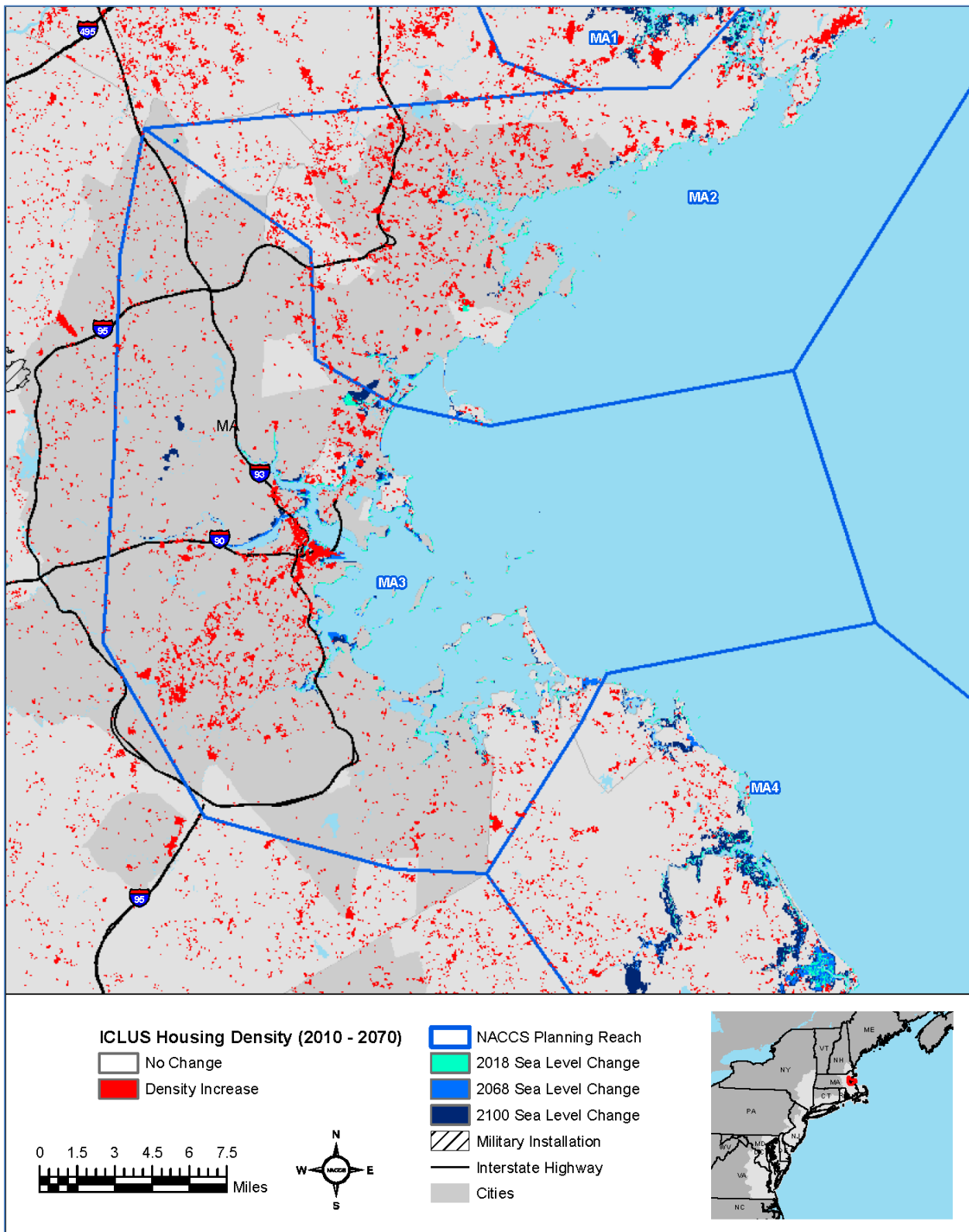


Figure 11a-22: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MA3)

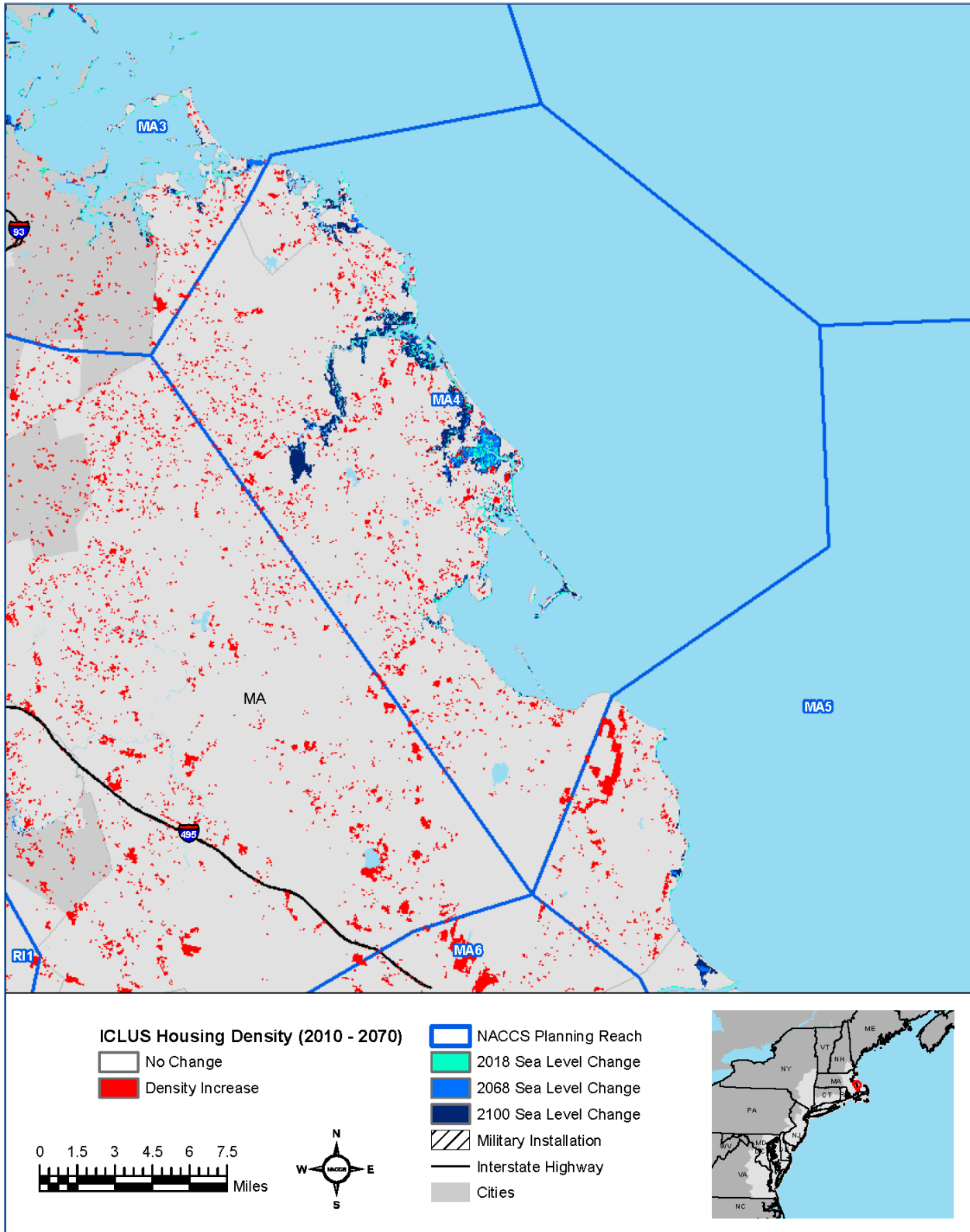


Figure 1Ia-23: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MA4)

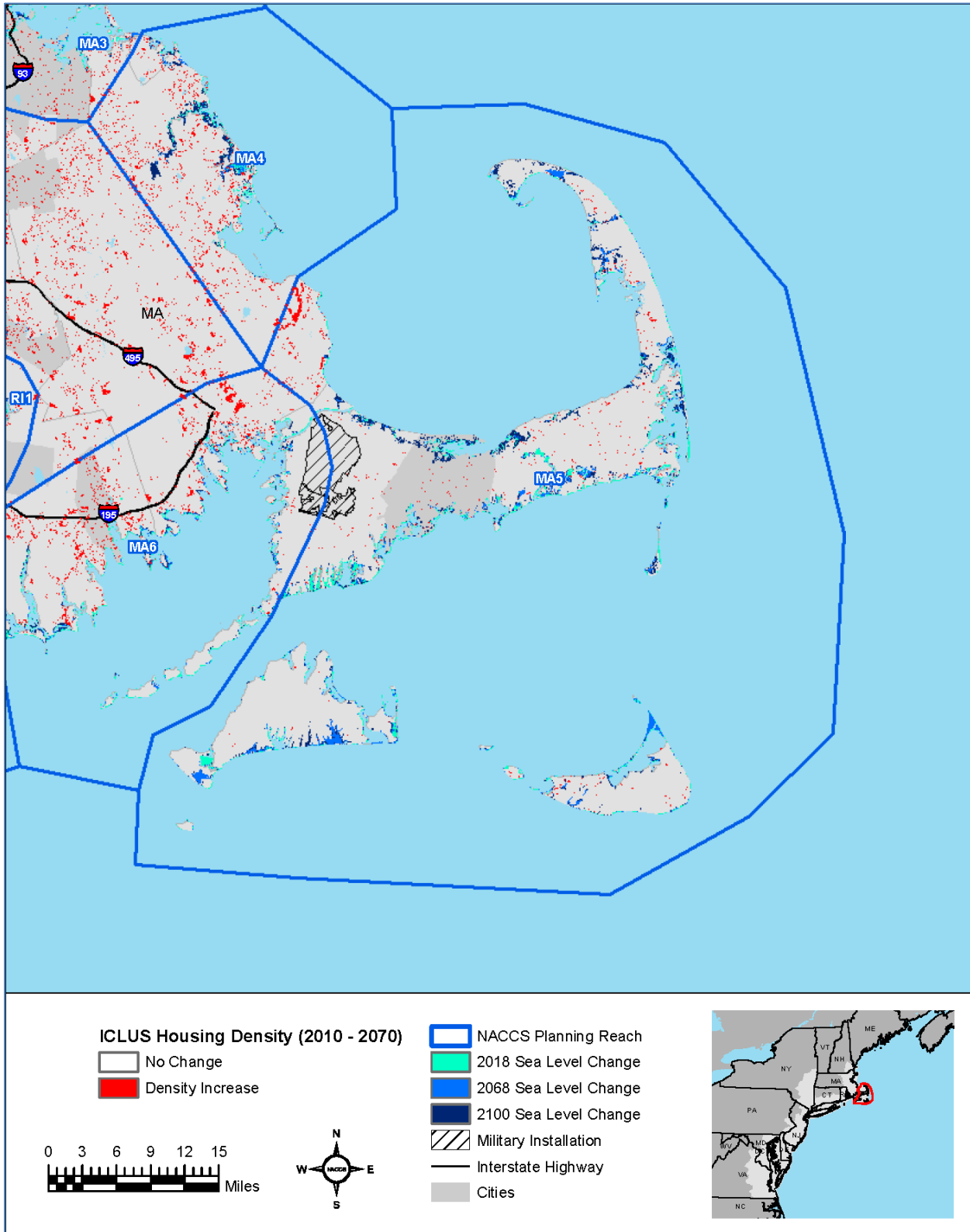


Figure Ila-24: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MA5)

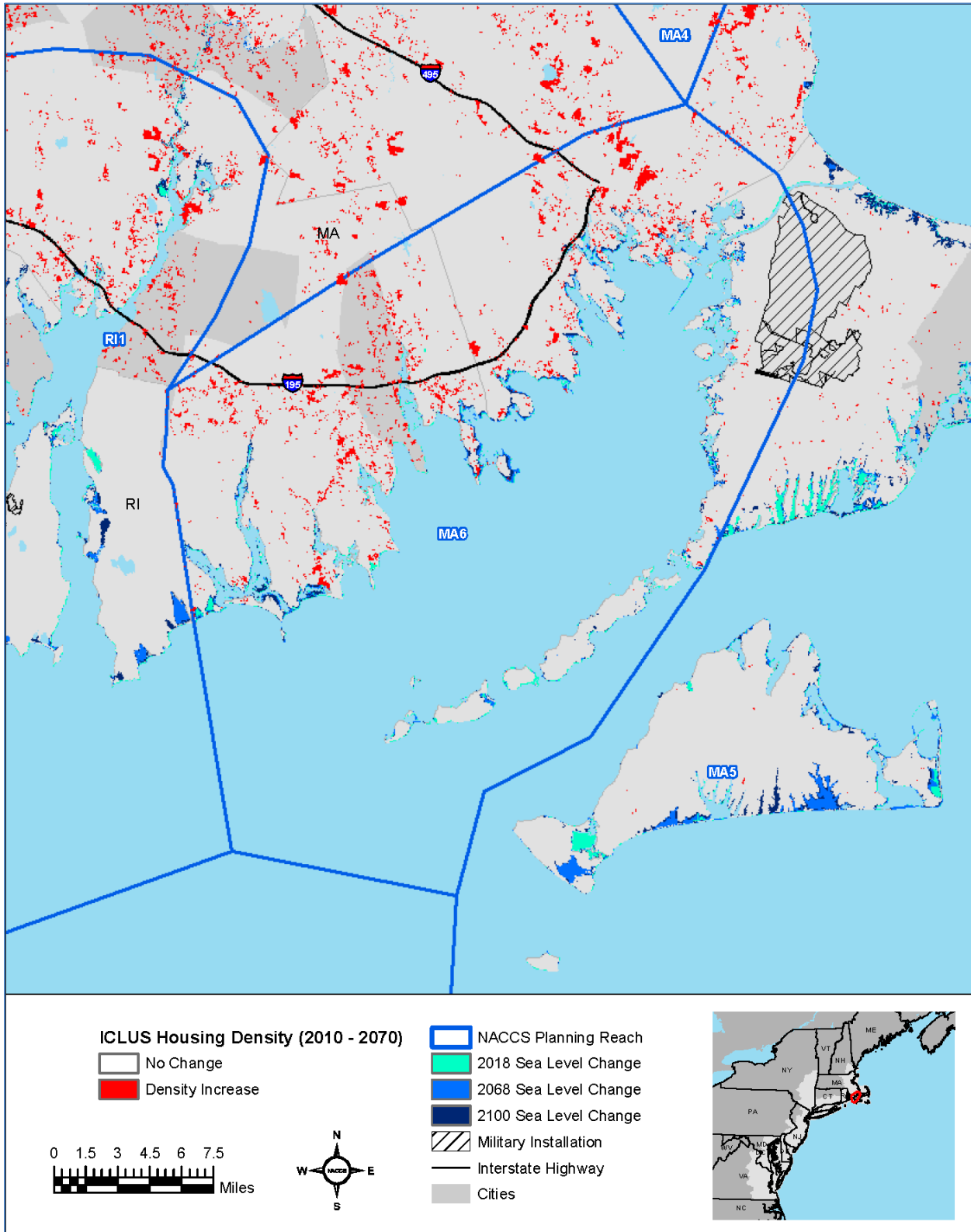


Figure 1Ia-25: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MA6)

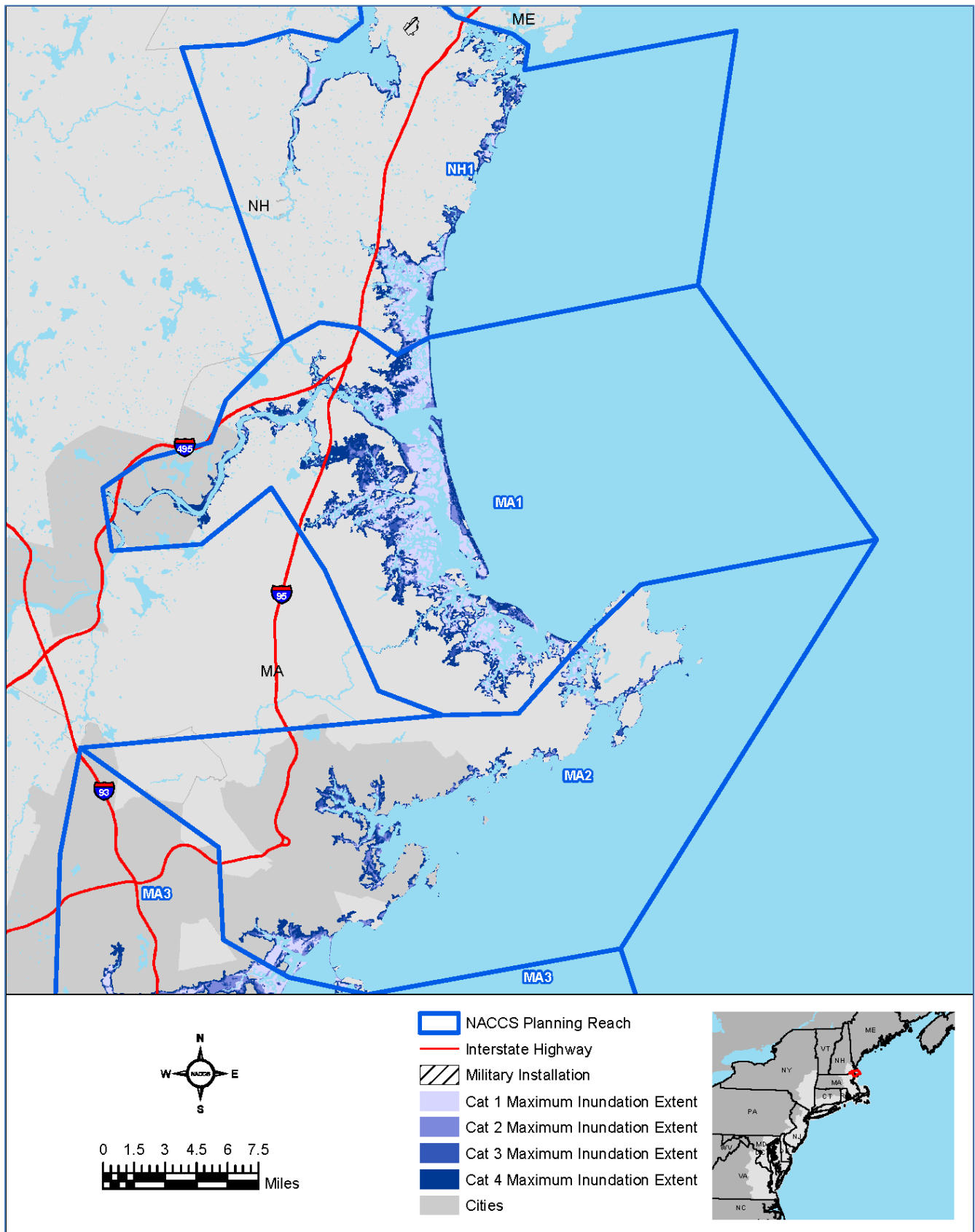


Figure Ila-26: Impacted Area Category 1-4 Water Levels (MA1)

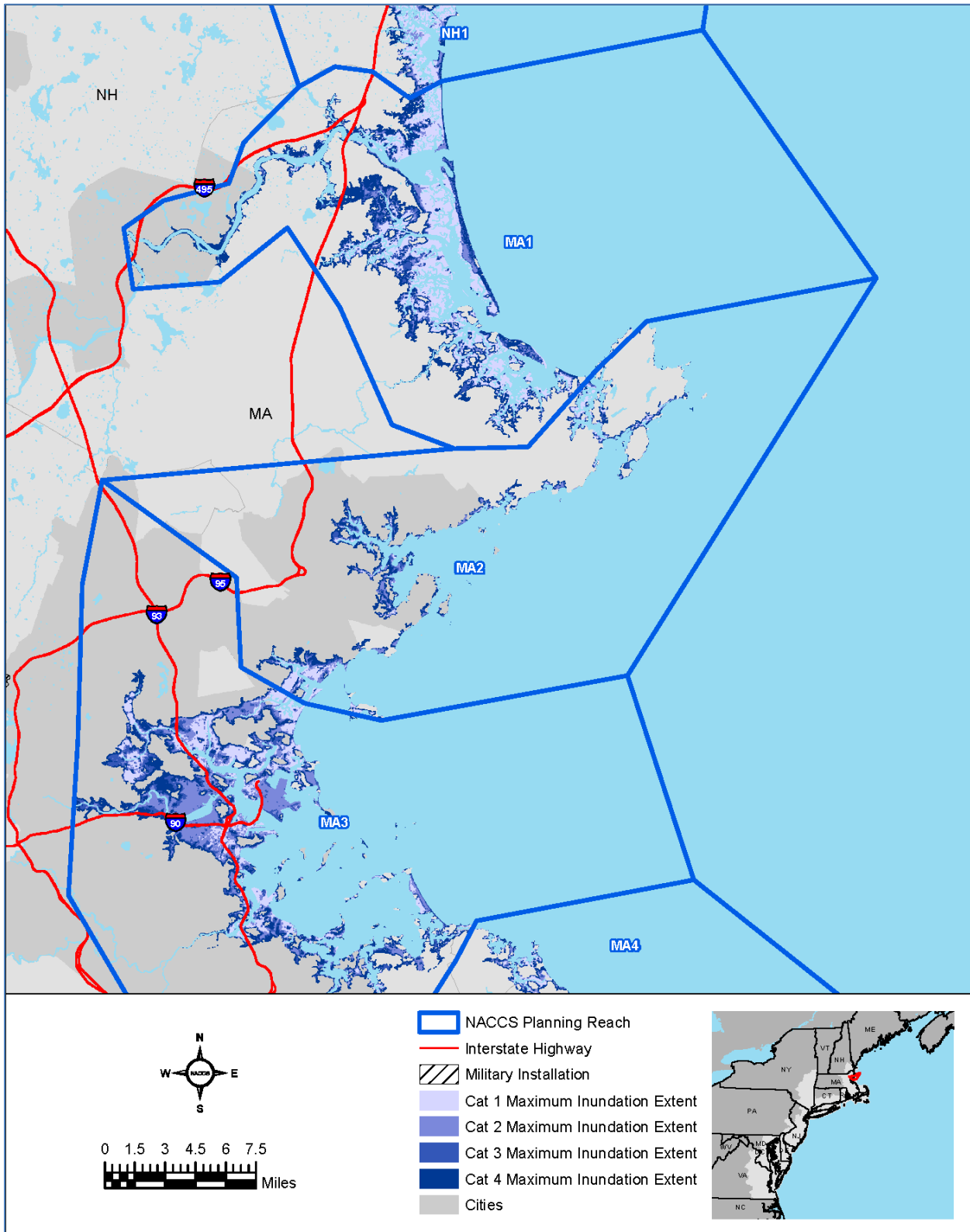


Figure 11a-27: Impacted Area Category 1-4 Water Levels (MA2)

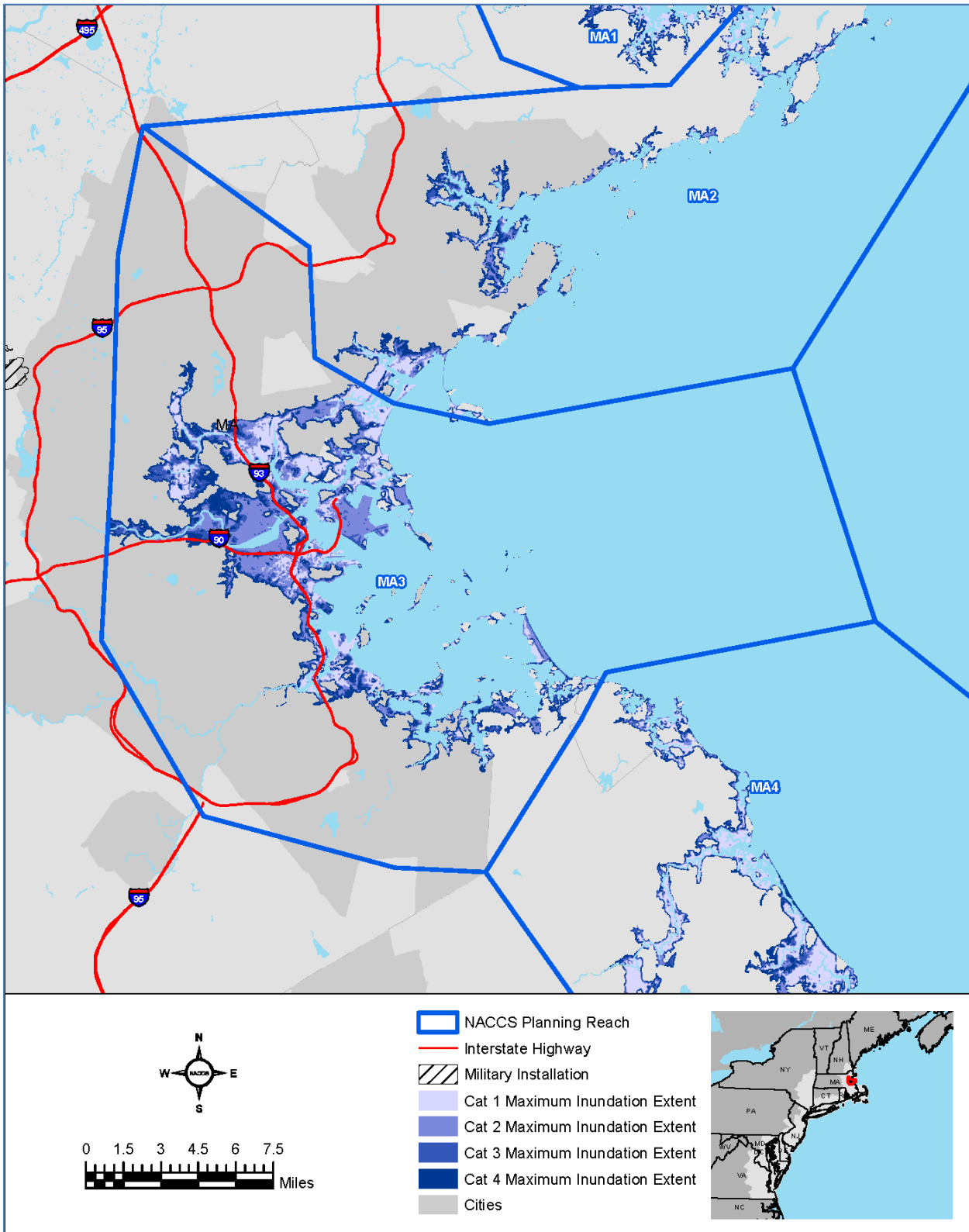


Figure 11a-28: Impacted Area Category 1-4 Water Levels (MA3)

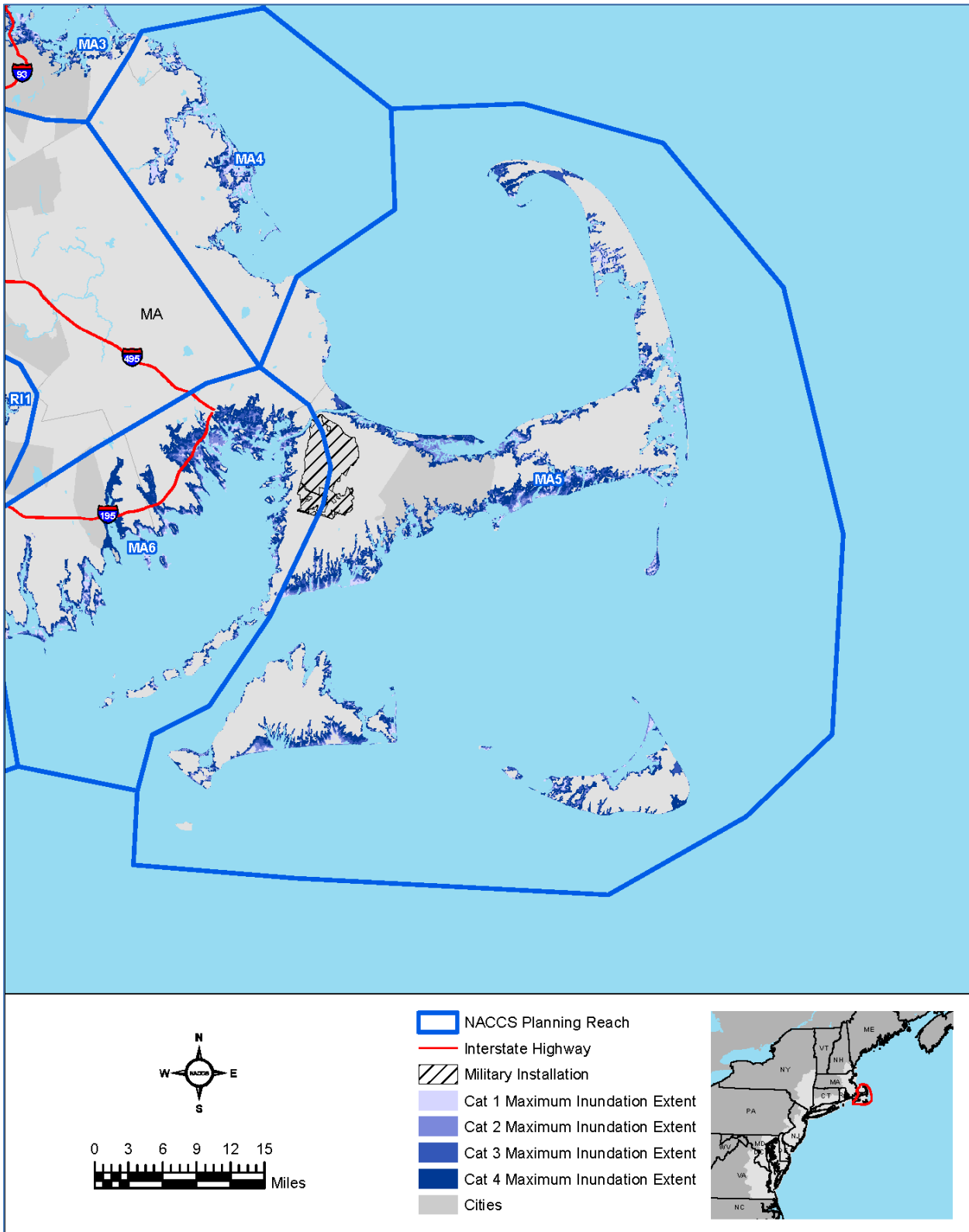


Figure IIa-29: Impacted Area Category 1-4 Water Levels (MA5)

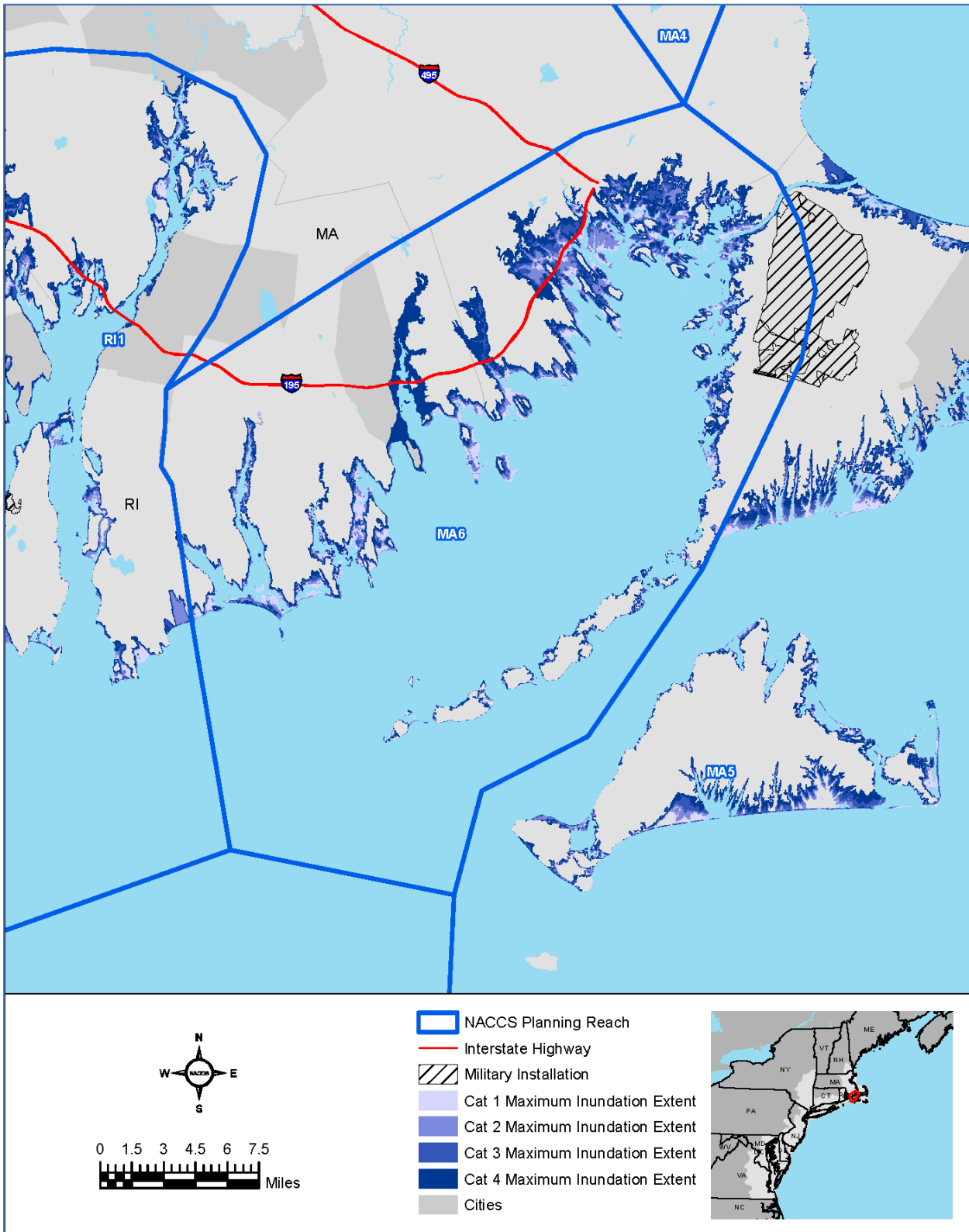


Figure Ila-30: Impacted Area Category 1-4 Water Levels (MA6)

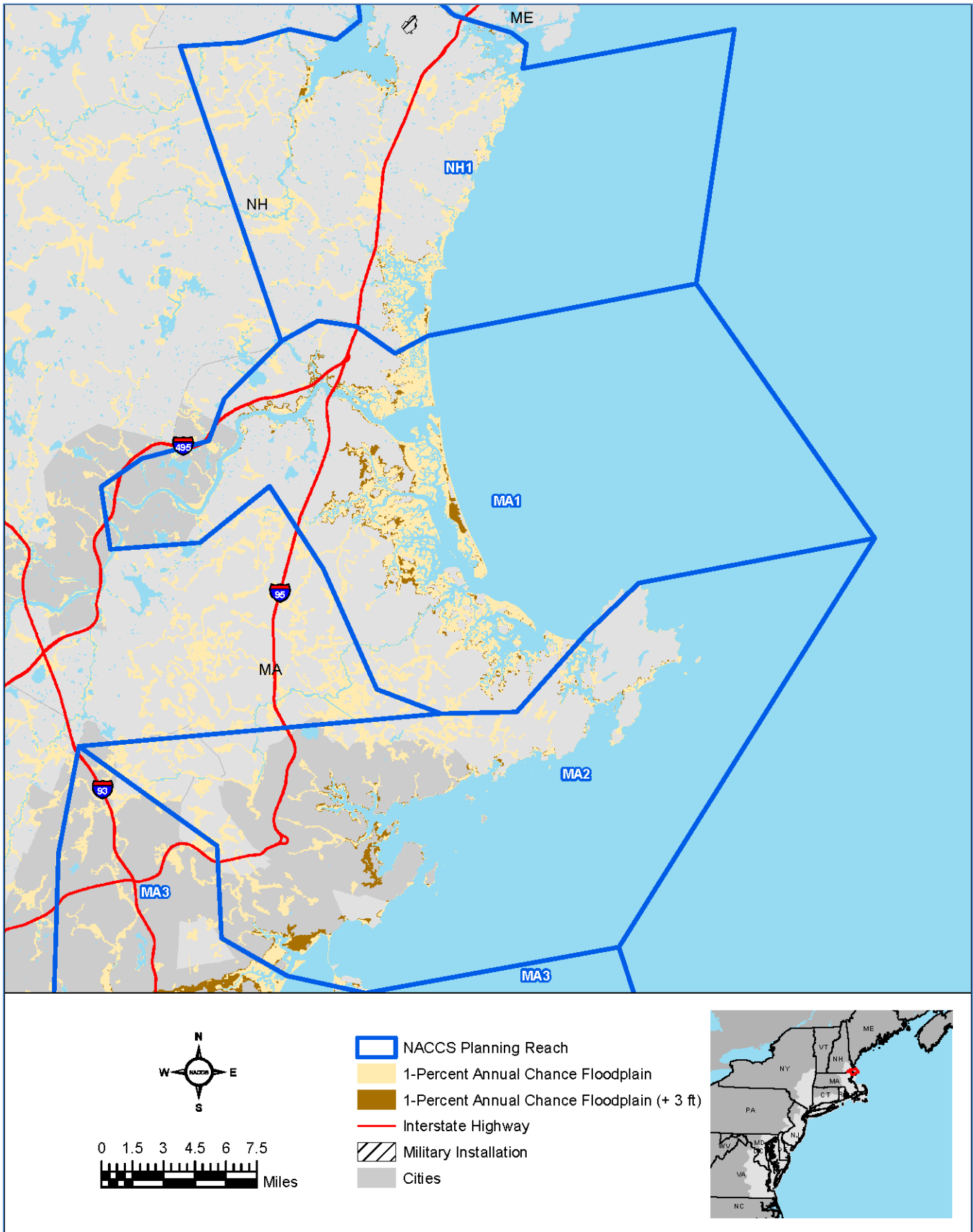


Figure 11a-31: Impacted Area 1-Percent Flood plus 3 Feet Water Surface (MA1)

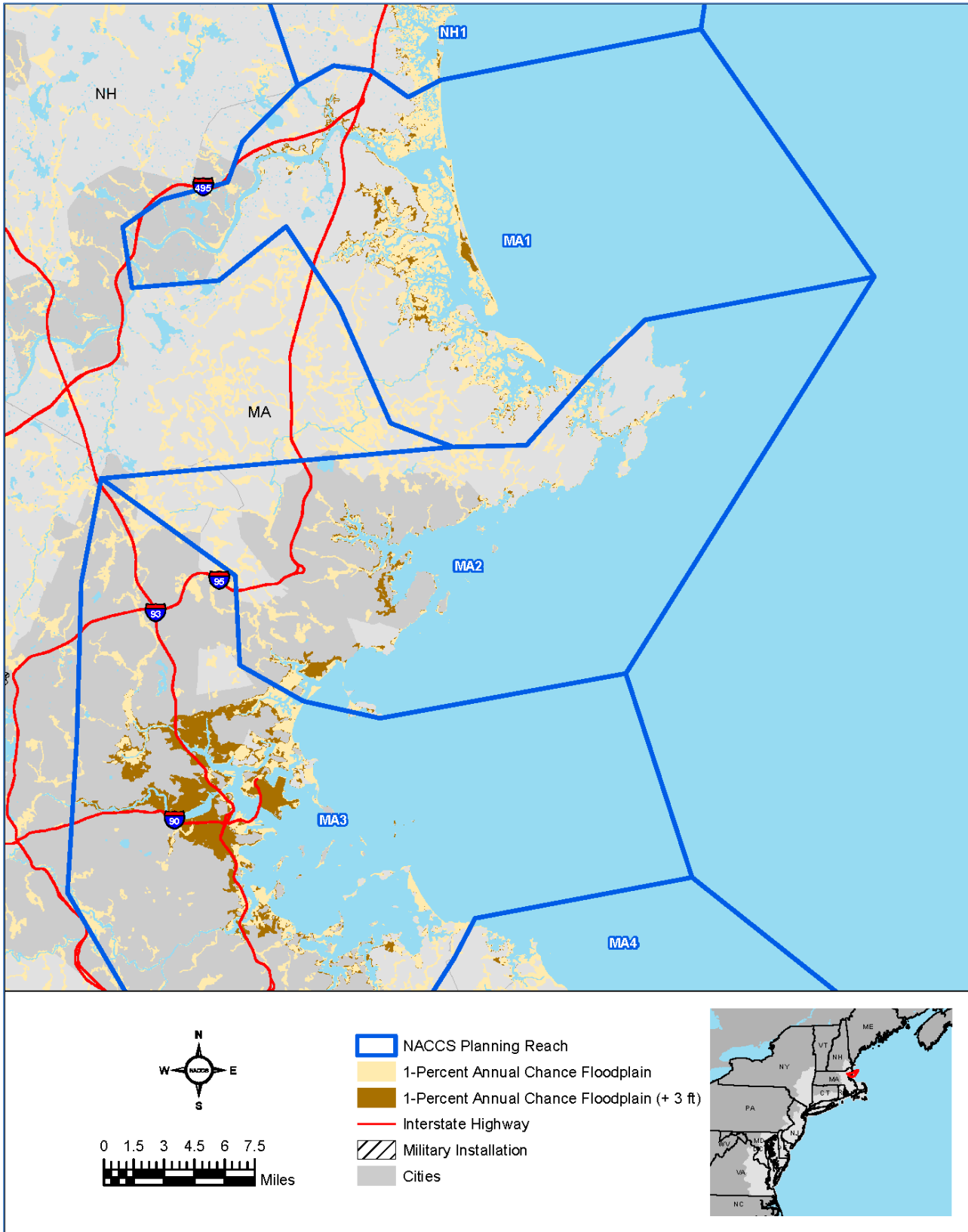


Figure Ila-32: Impacted Area 1-Percent Flood plus 3 Feet Water Surface (MA2)

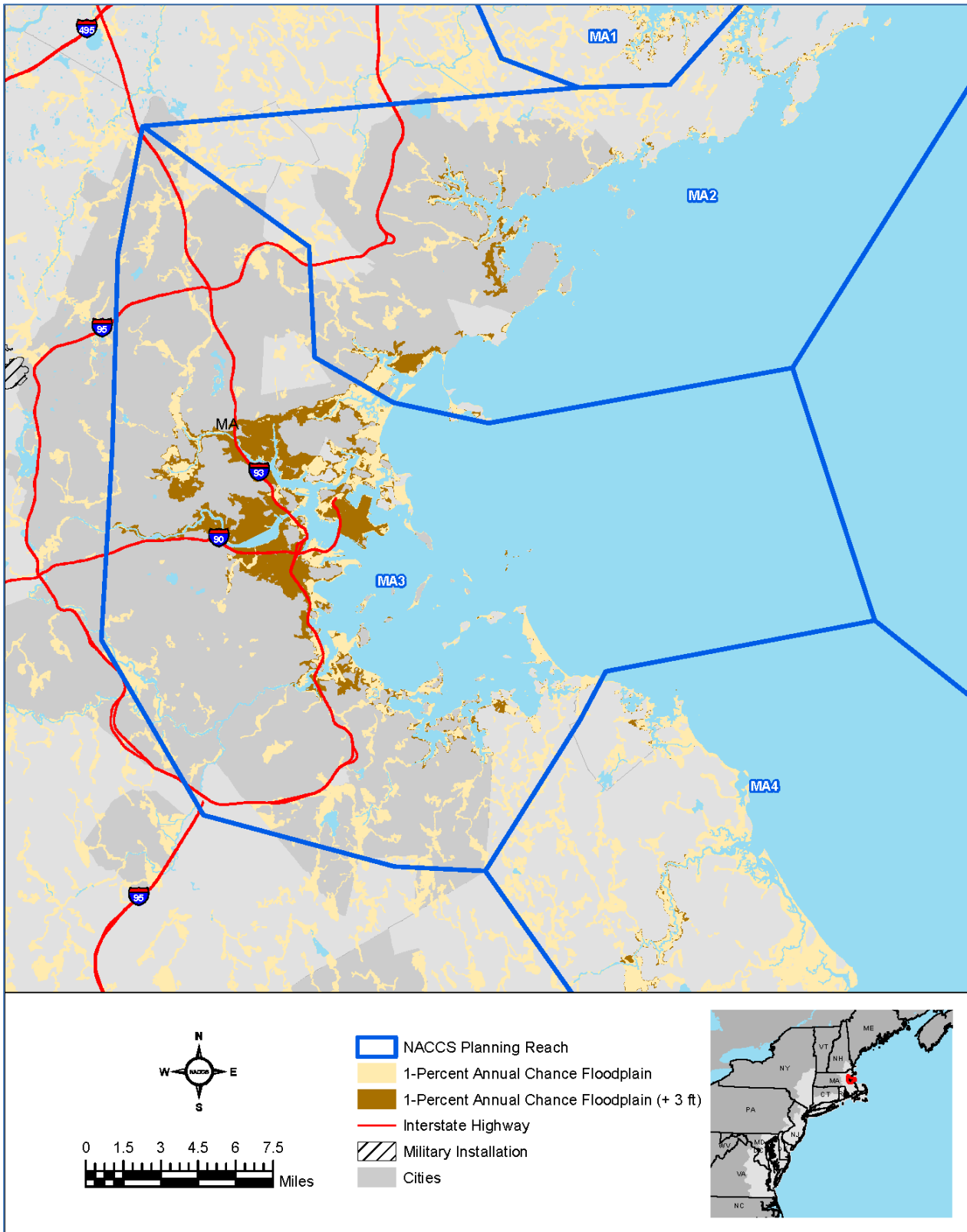


Figure 11a-33: Impacted Area 1-Percent Flood plus 3 Feet Water Surface (MA3)

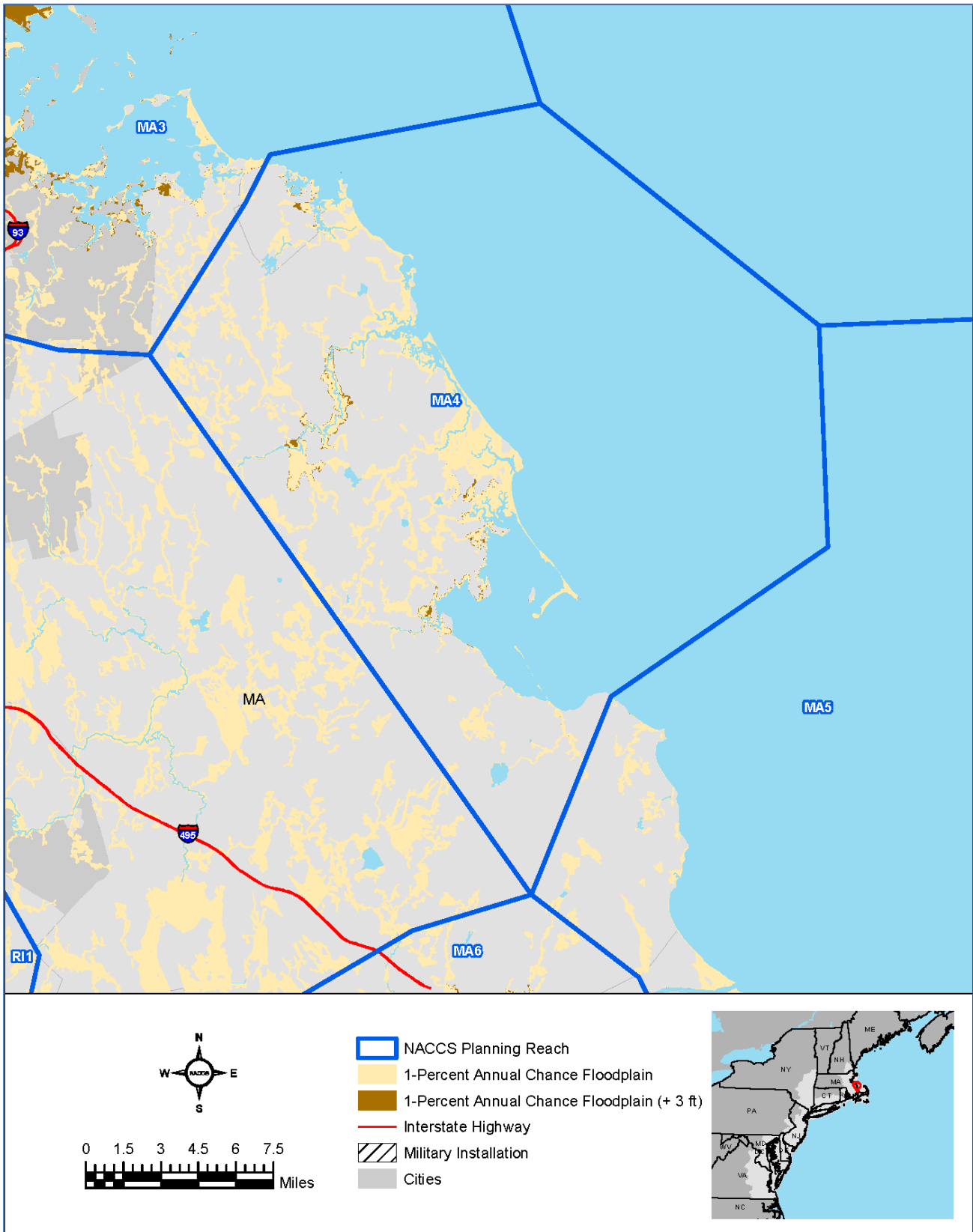


Figure 11a-34: Impacted Area 1-Percent Flood plus 3 Feet Water Surface (MA4)

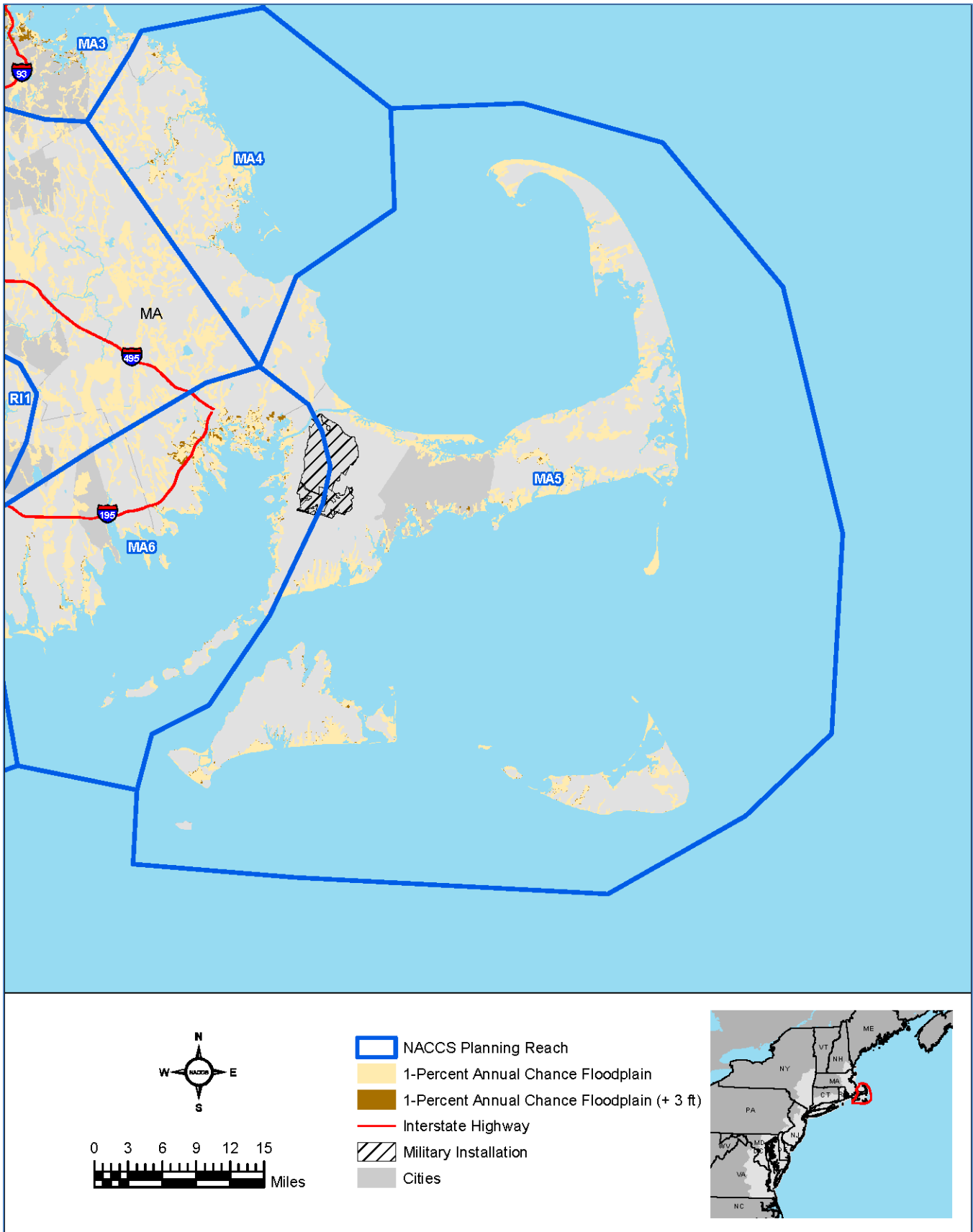


Figure 11a-35: Impacted Area 1-Percent Flood plus 3 Feet Water Surface (MA5)

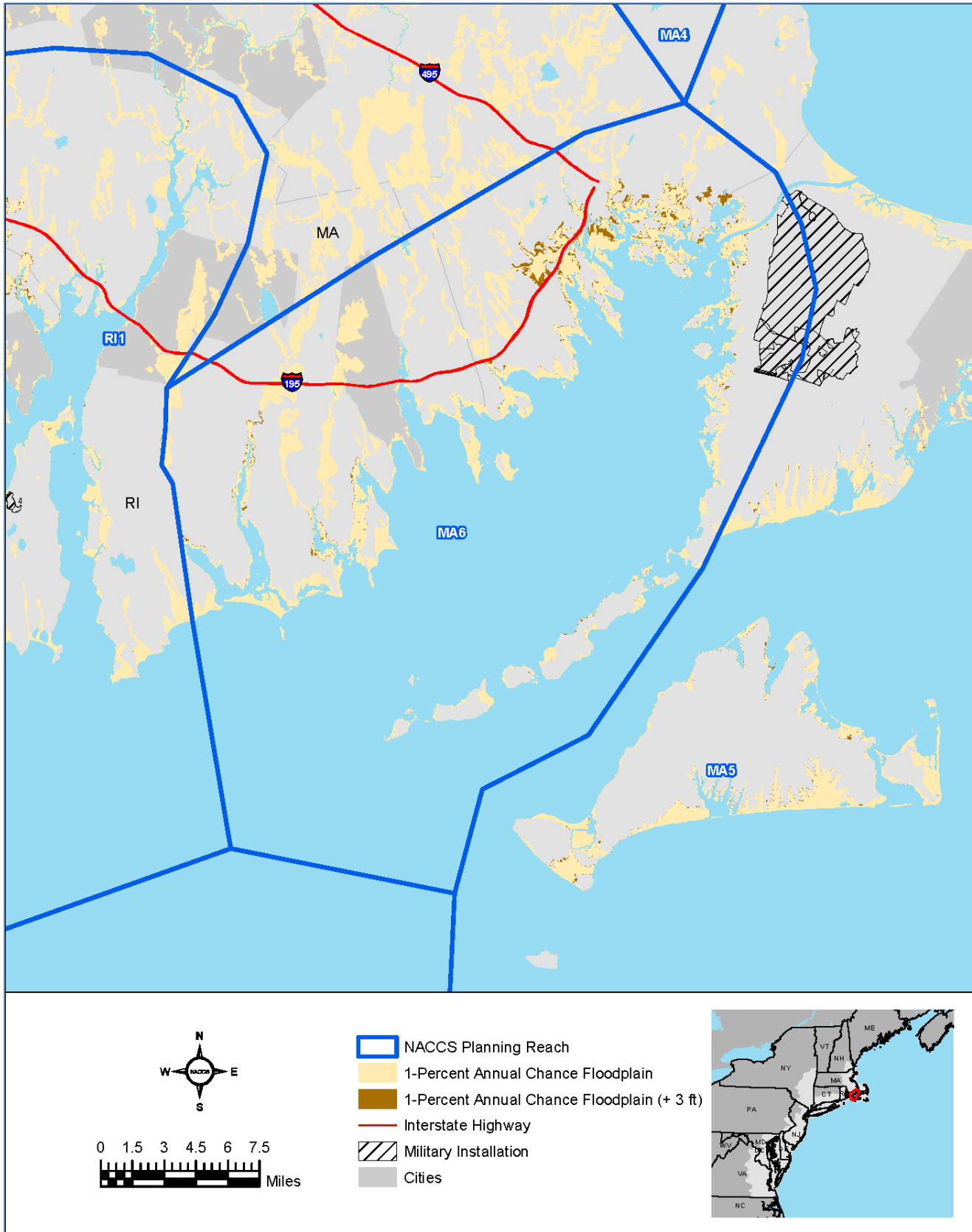


Figure Ila-36: Impacted Area 1-Percent Flood plus 3 Feet Water Surface (MA6)

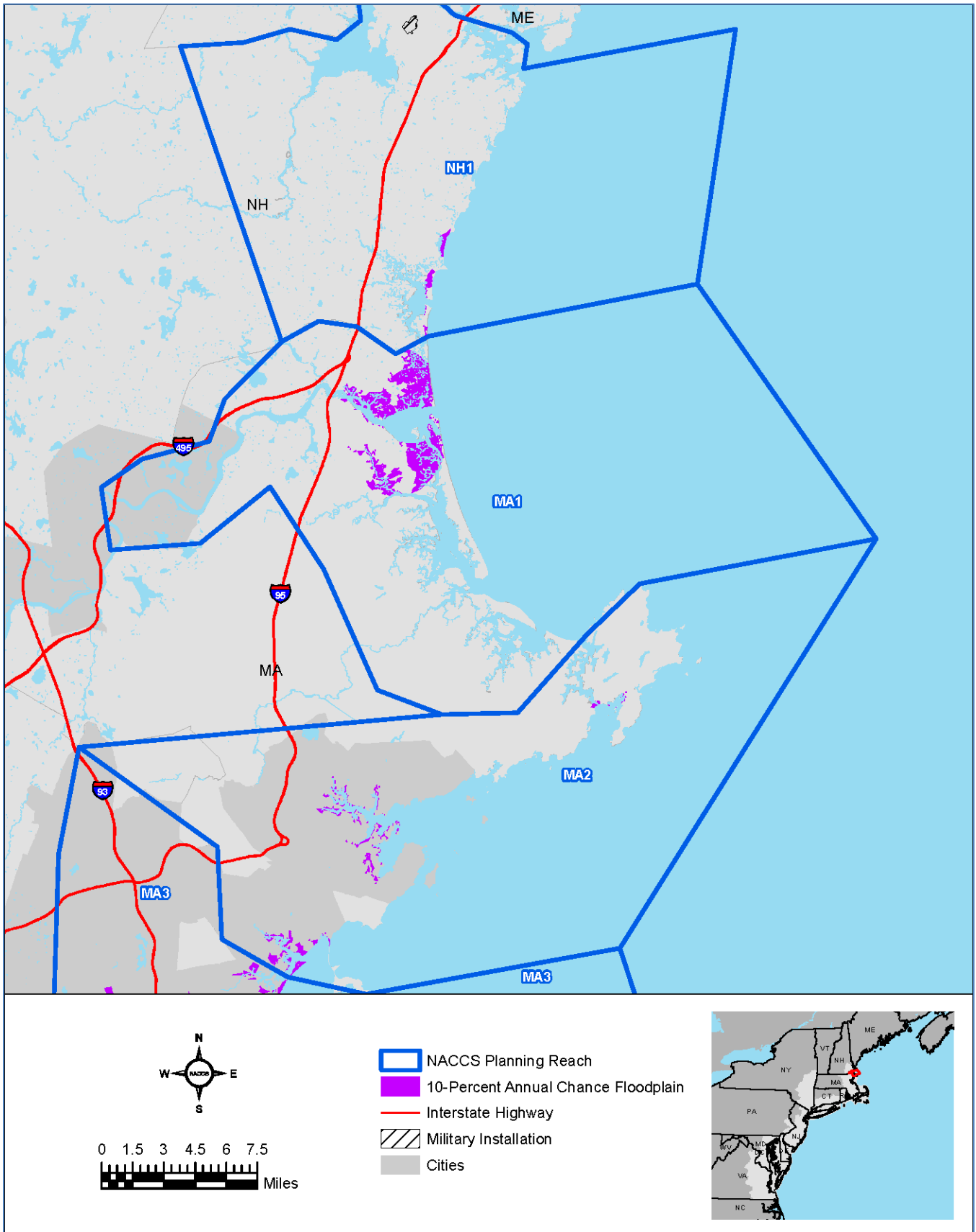


Figure 11a-37: Impacted Area 10-Percent Flood Water Surface (MA1)

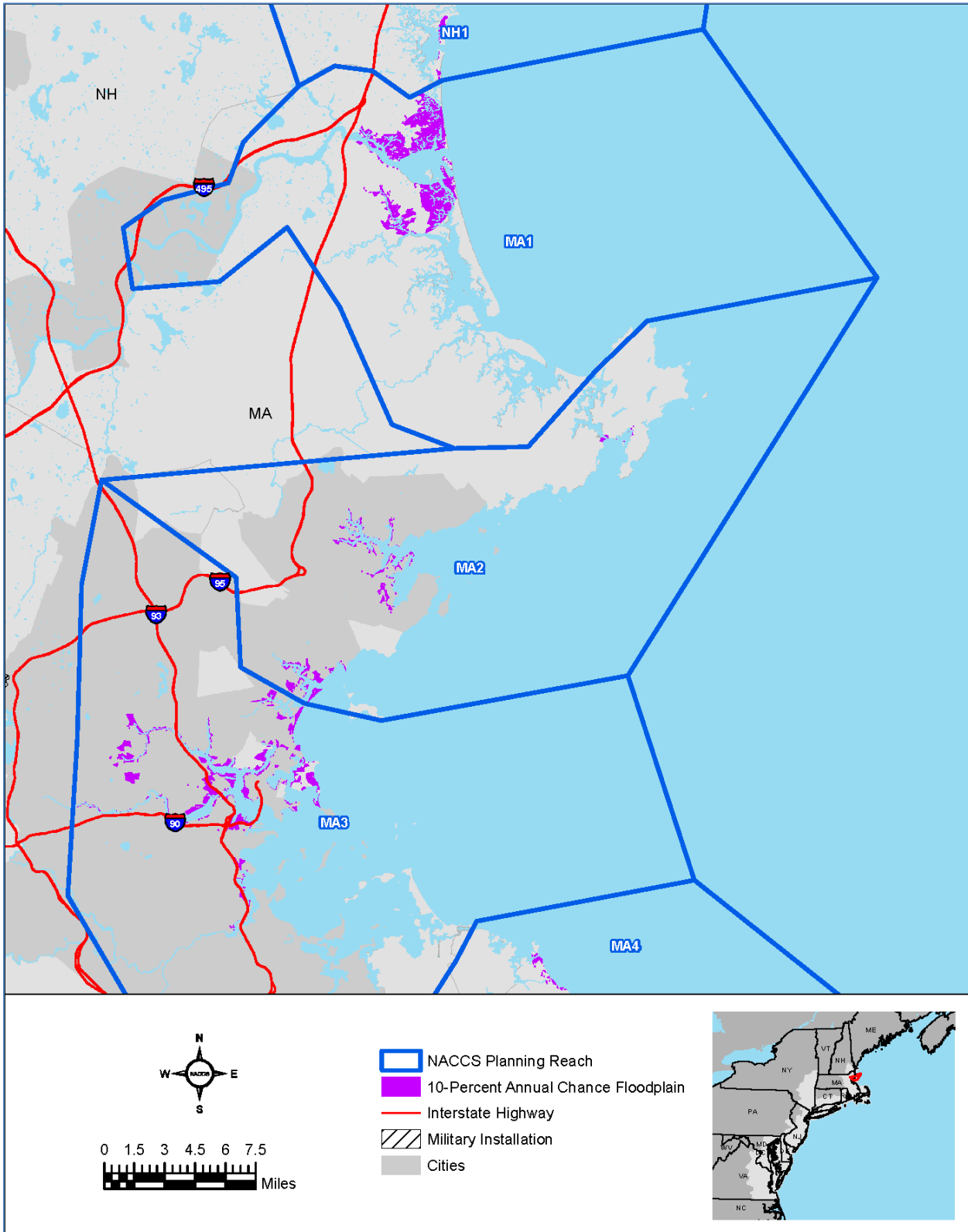


Figure 11a-38: Impacted Area 10-Percent Flood Water Surface (MA2)

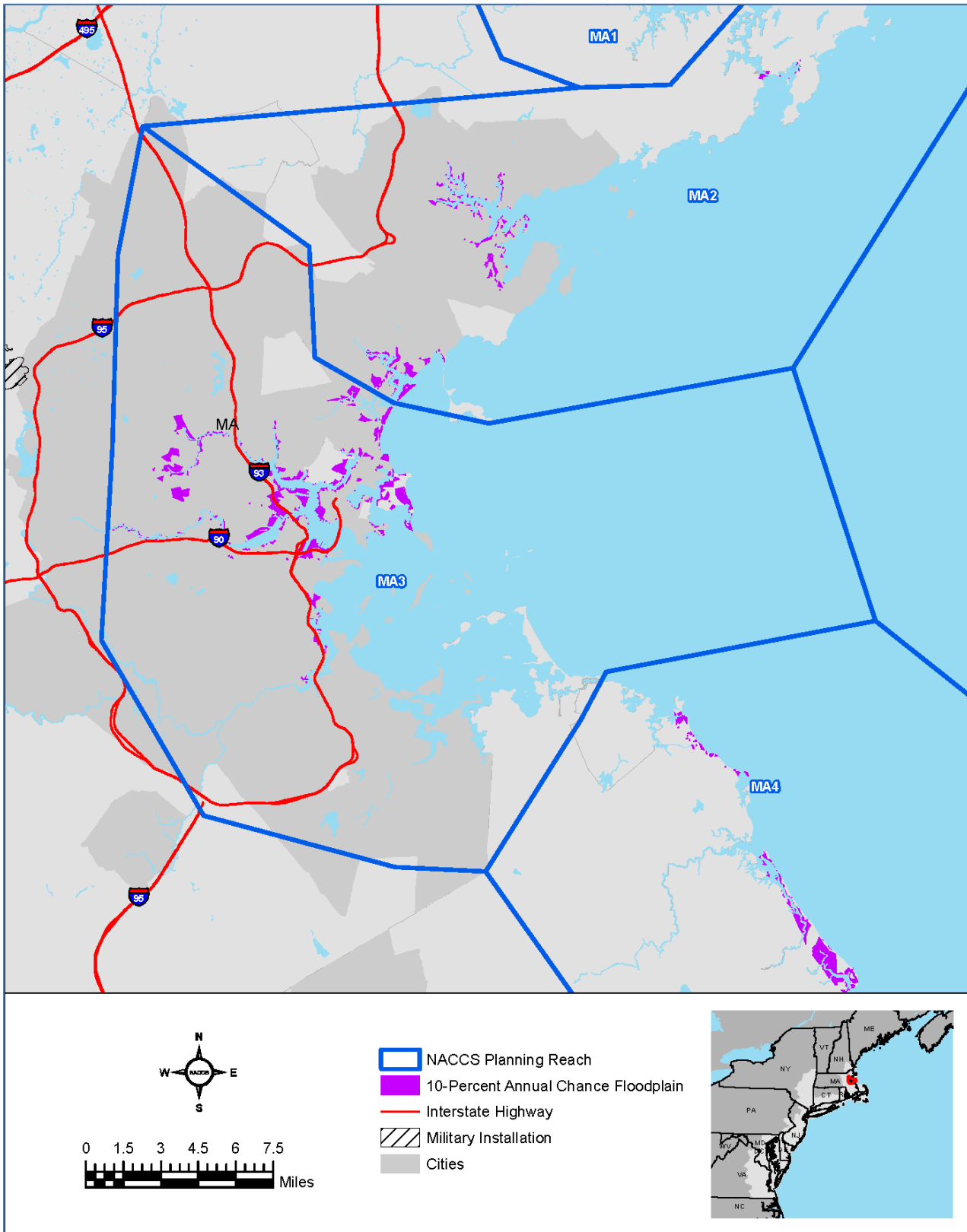


Figure 11a-39: Impacted Area 10-Percent Flood Water Surface (MA3)

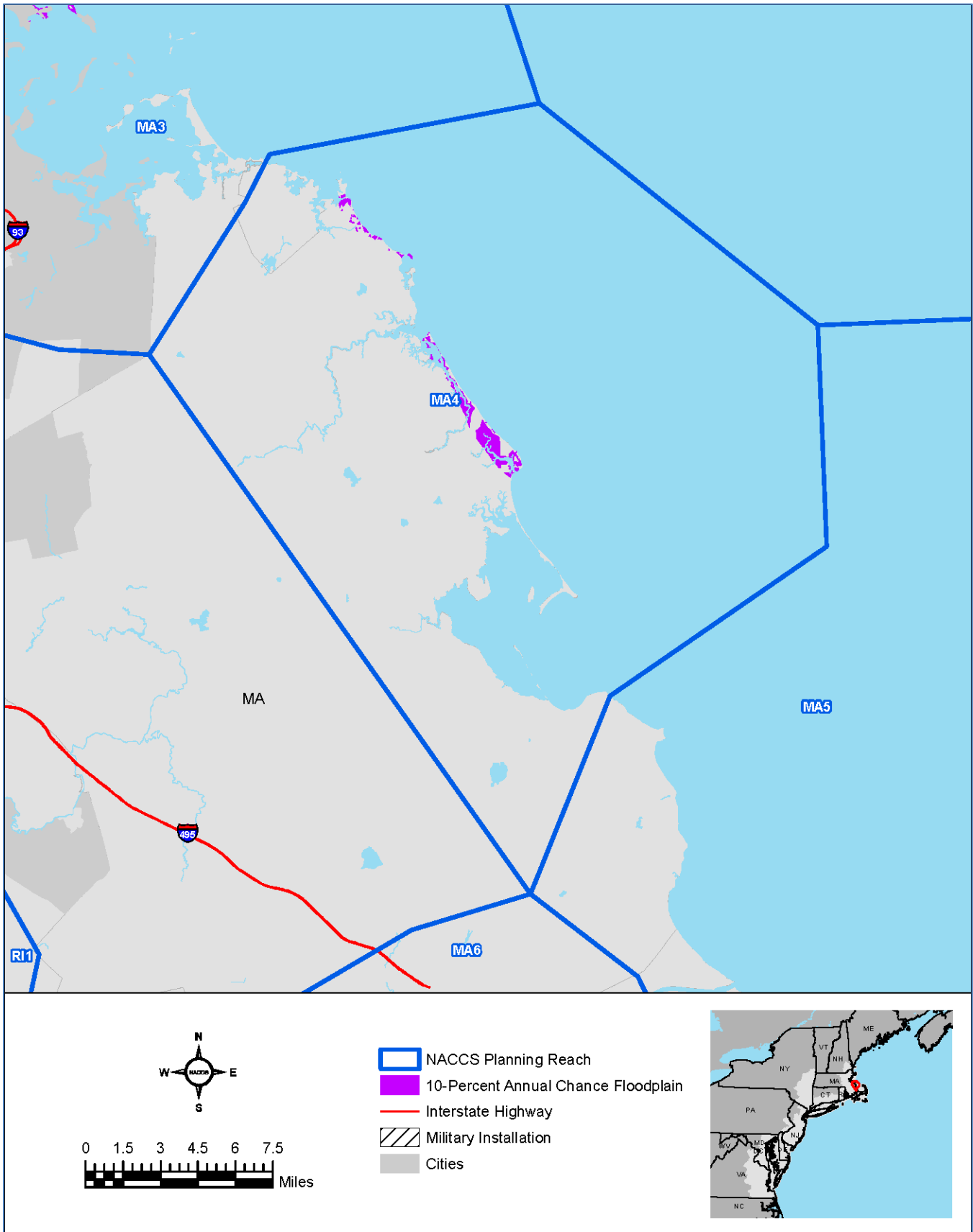


Figure 11a-40: Impacted Area 10-Percent Flood Water Surface (MA4)

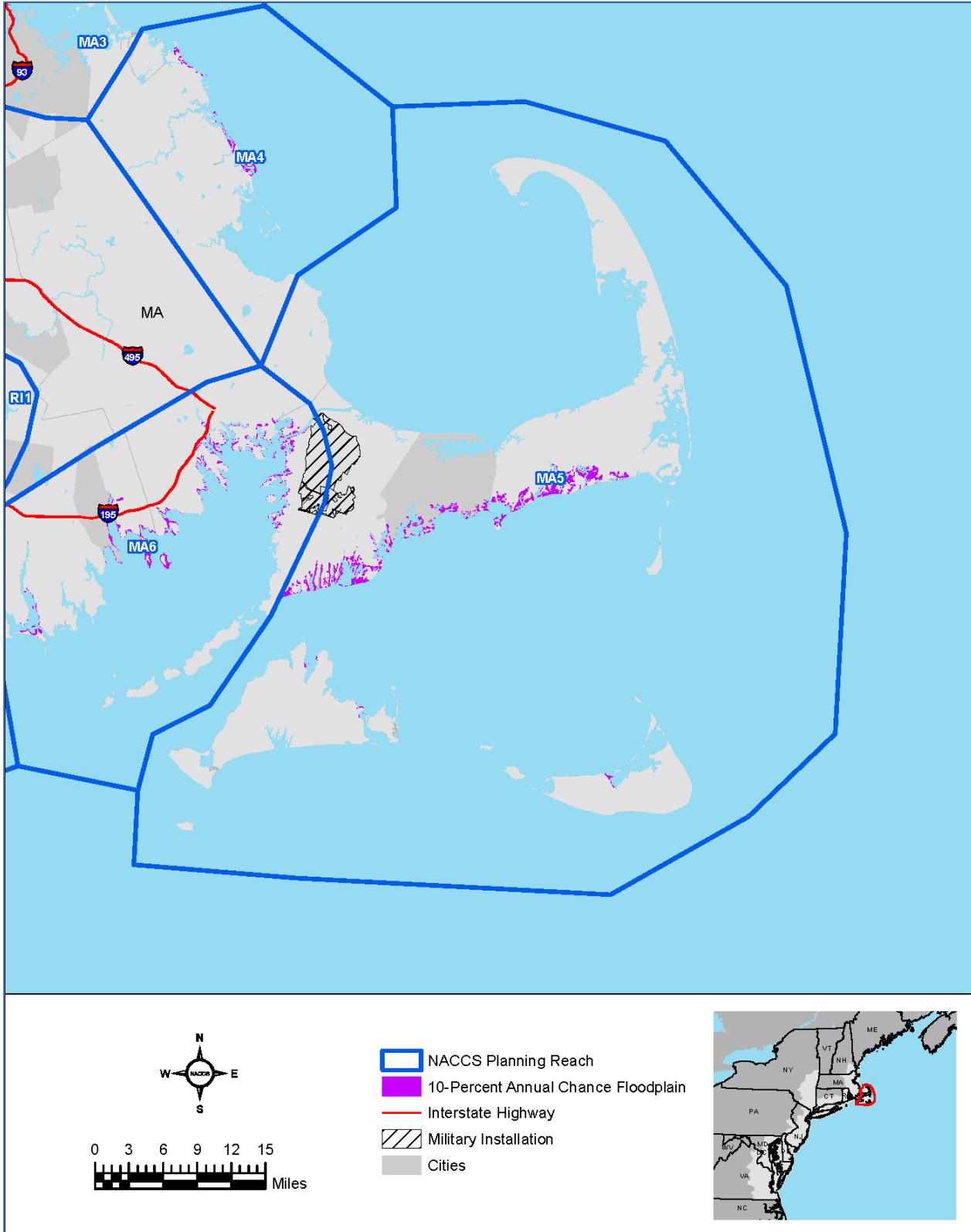


Figure Ila-41: Impacted Area 10-Percent Flood Water Surface (MA5)

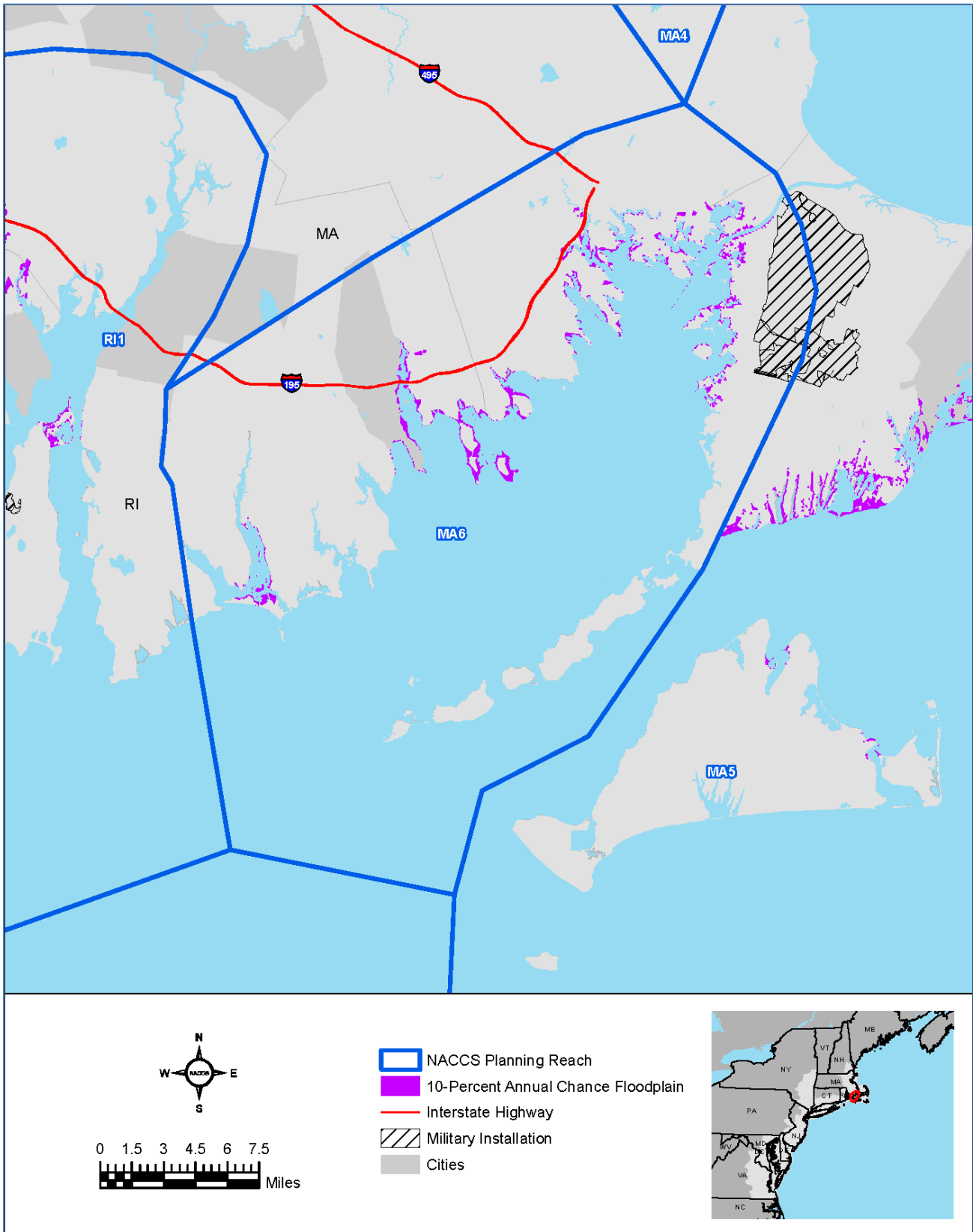


Figure Ila-42: Impacted Area 10-Percent Flood Water Surface (MA6)

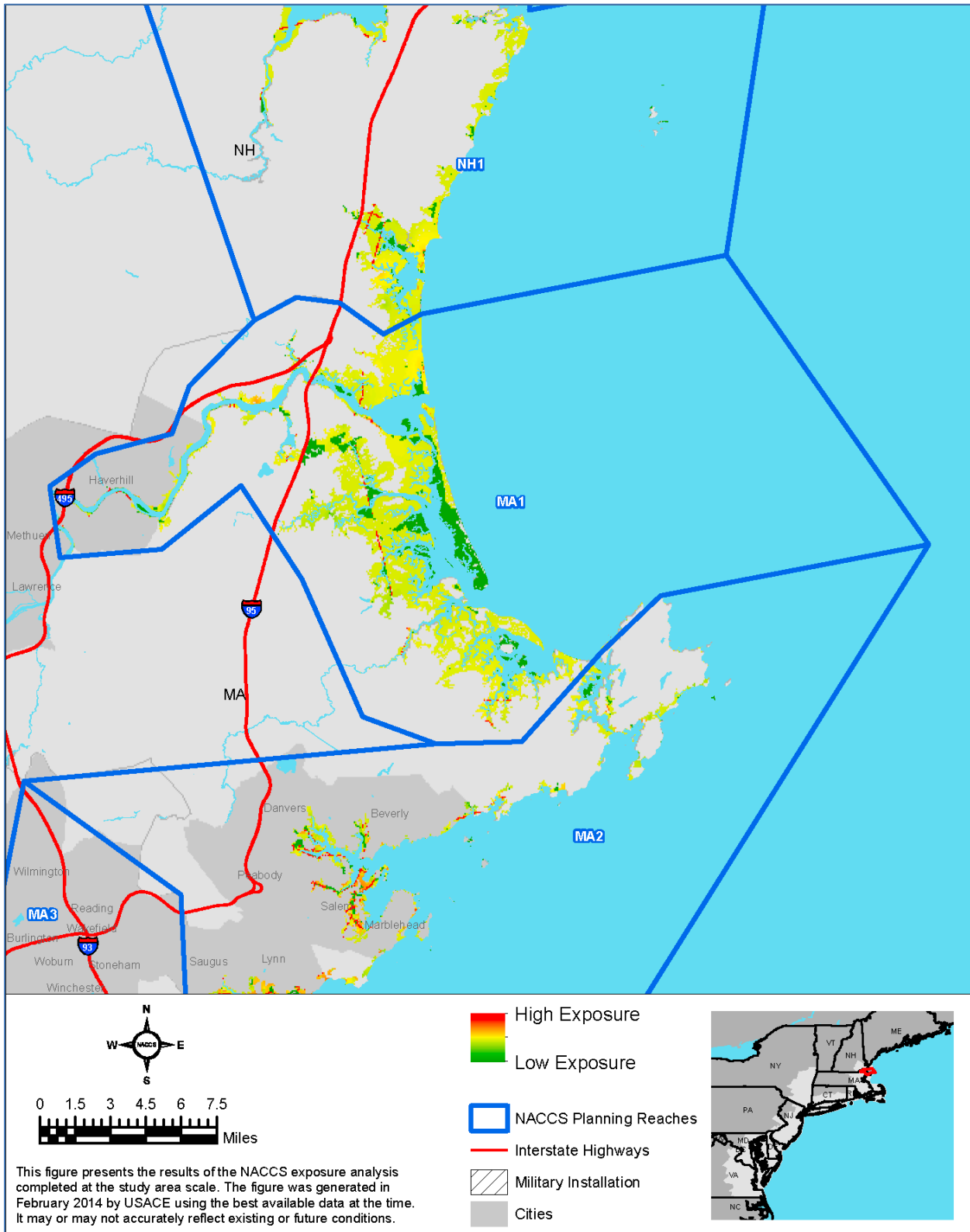


Figure 1Ia-43: Population and Infrastructure Exposure Index (MA1)

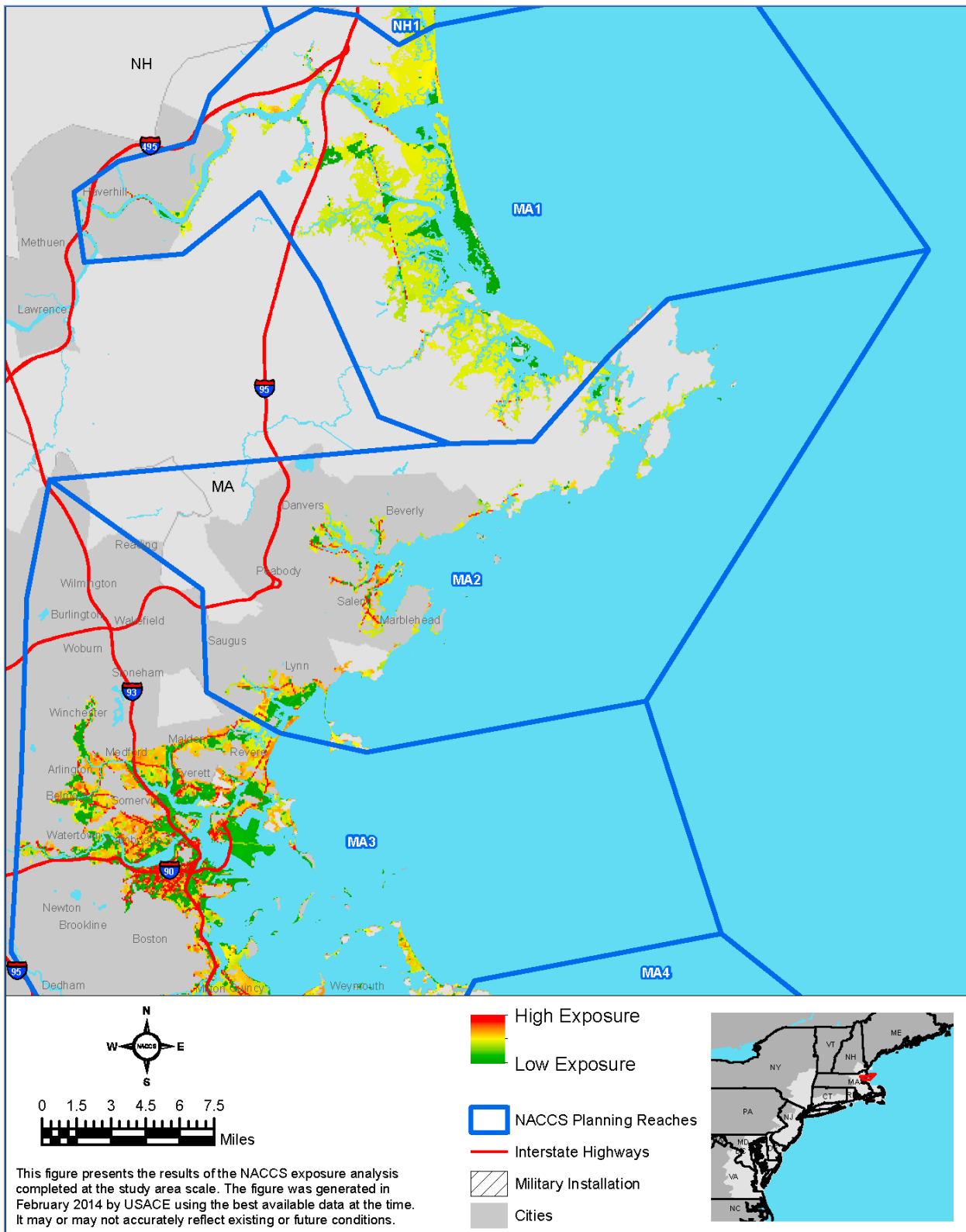


Figure 11a-44: Population and Infrastructure Exposure Index (MA2)

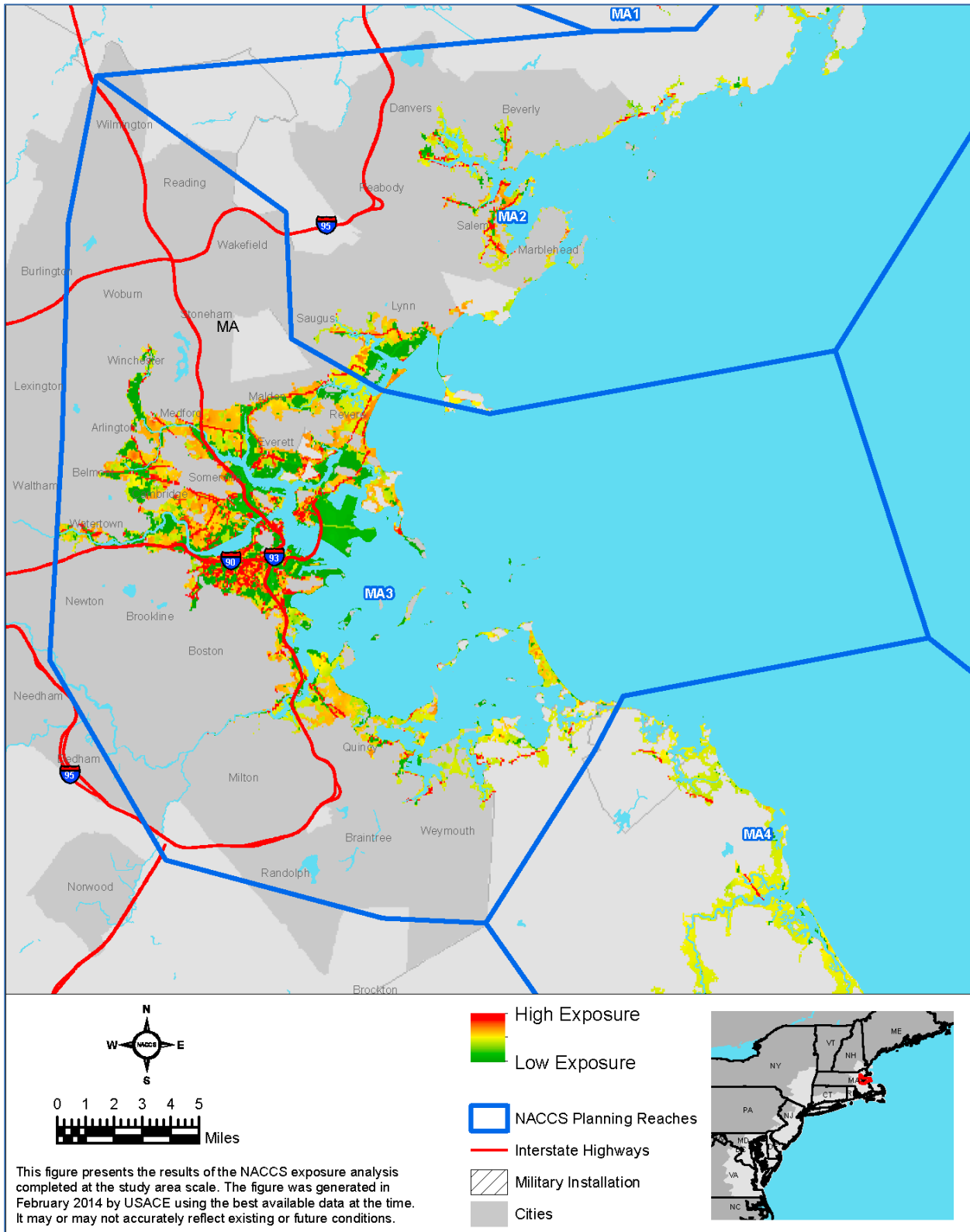


Figure 1Ia-45: Population and Infrastructure Exposure Index (MA3)

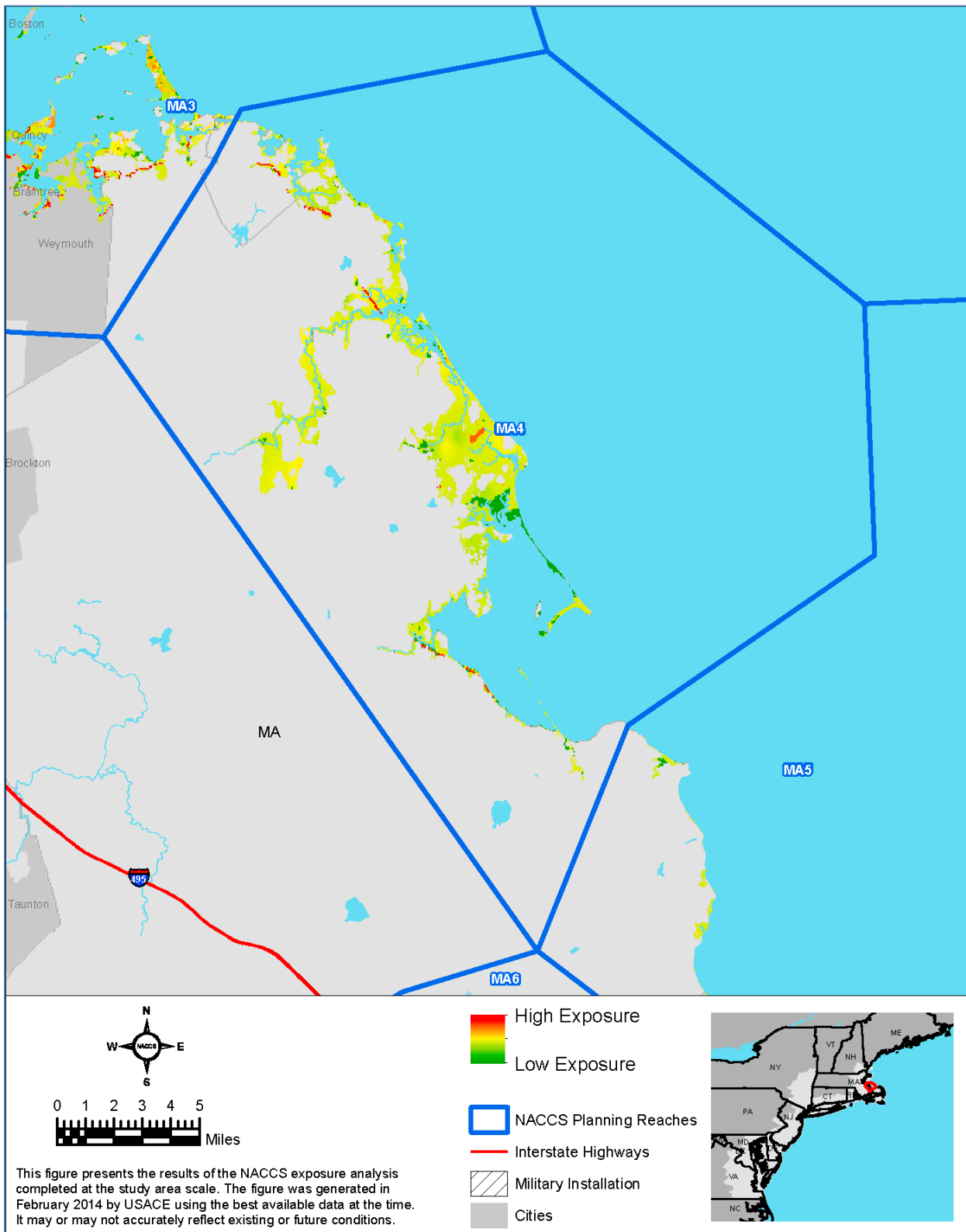


Figure Ila-46: Population and Infrastructure Exposure Index (MA4)

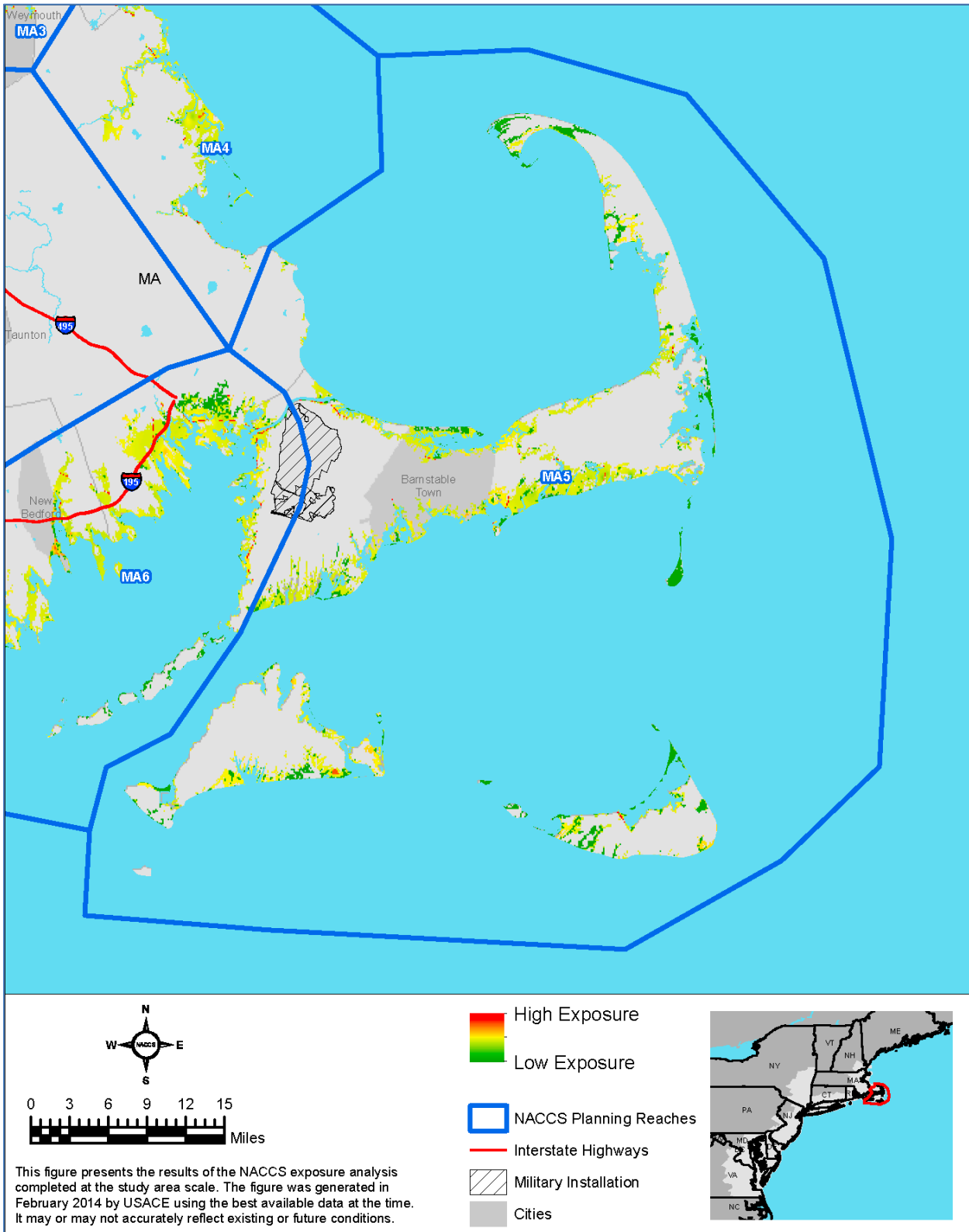


Figure 11a-47: Population and Infrastructure Exposure Index (MA5)

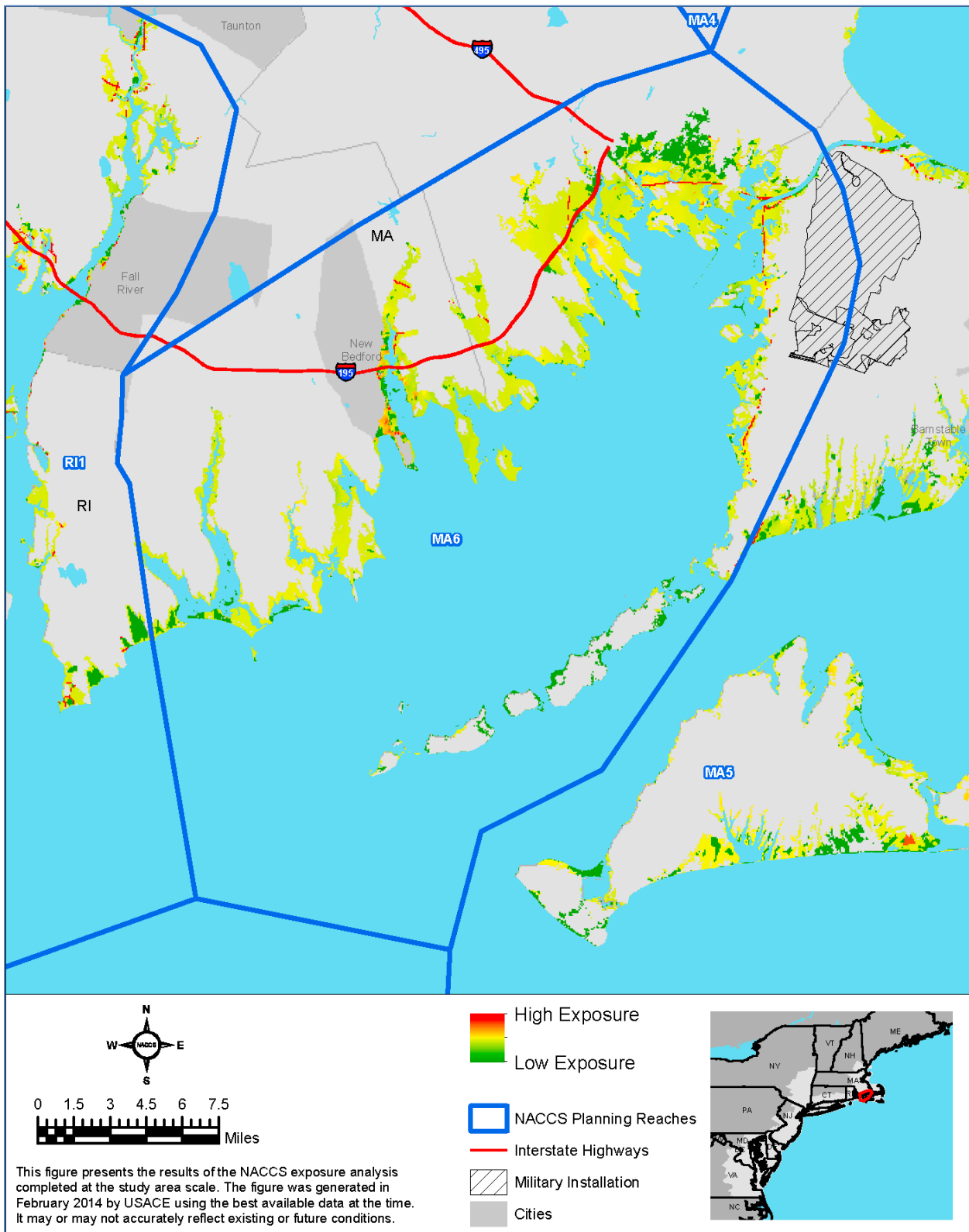


Figure 11a-48: Population and Infrastructure Exposure Index (MA6)

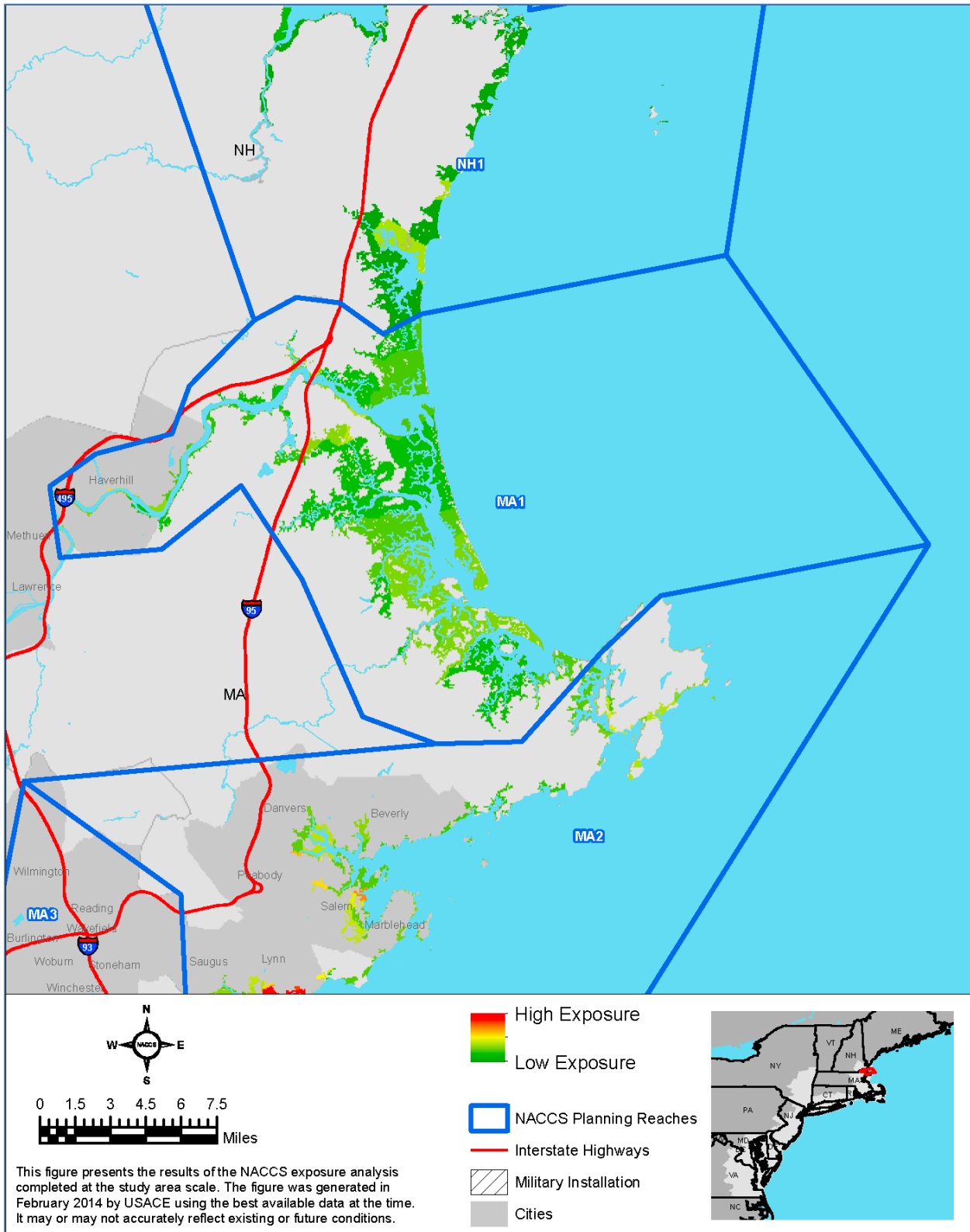


Figure 11a-49: Social Vulnerability Characterization Exposure Index (MA1)

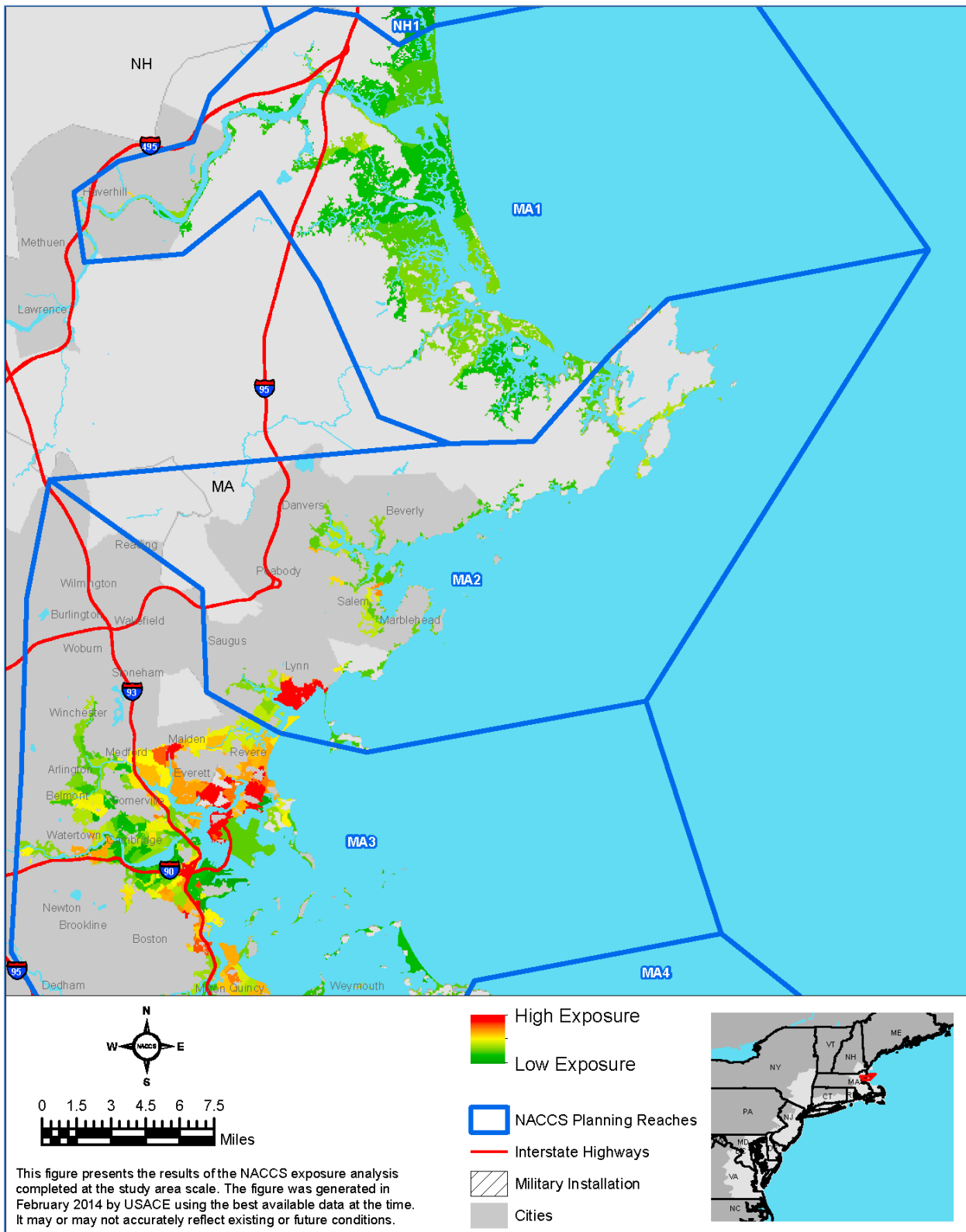


Figure 11a-50: Social Vulnerability Characterization Exposure Index (MA2)



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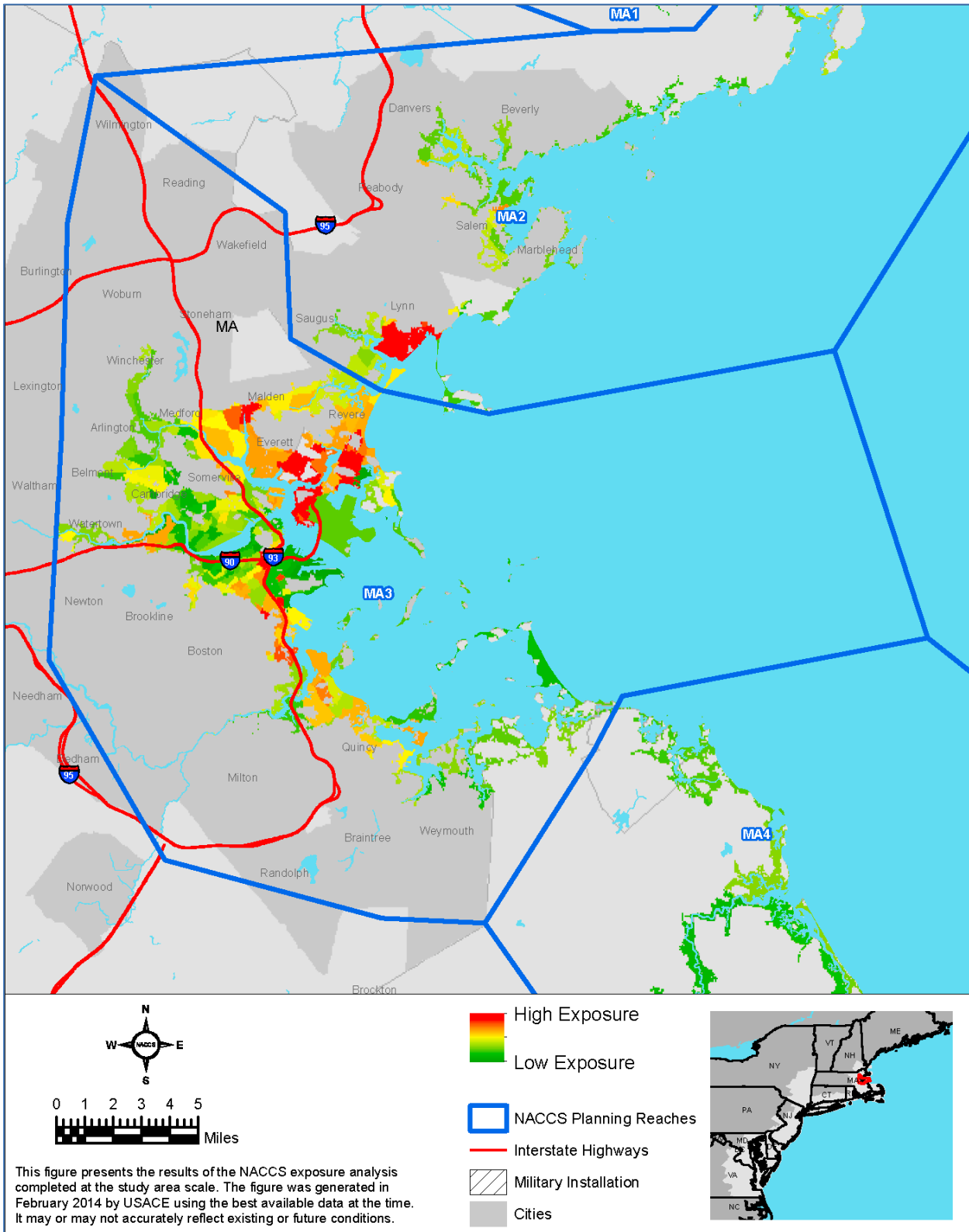


Figure 11a-51: Social Vulnerability Characterization Exposure Index (MA3)

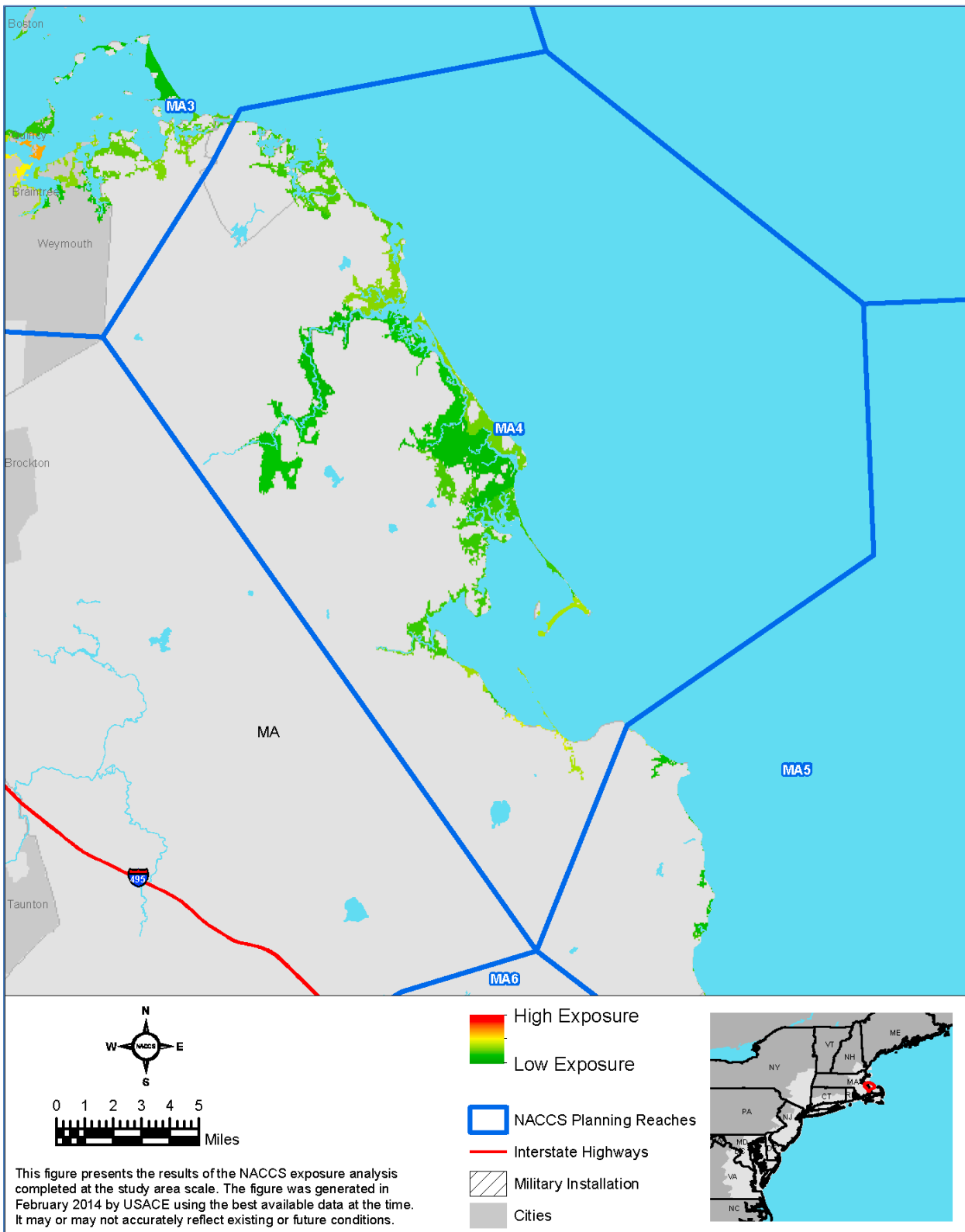


Figure Ila-52: Social Vulnerability Characterization Exposure Index (MA4)

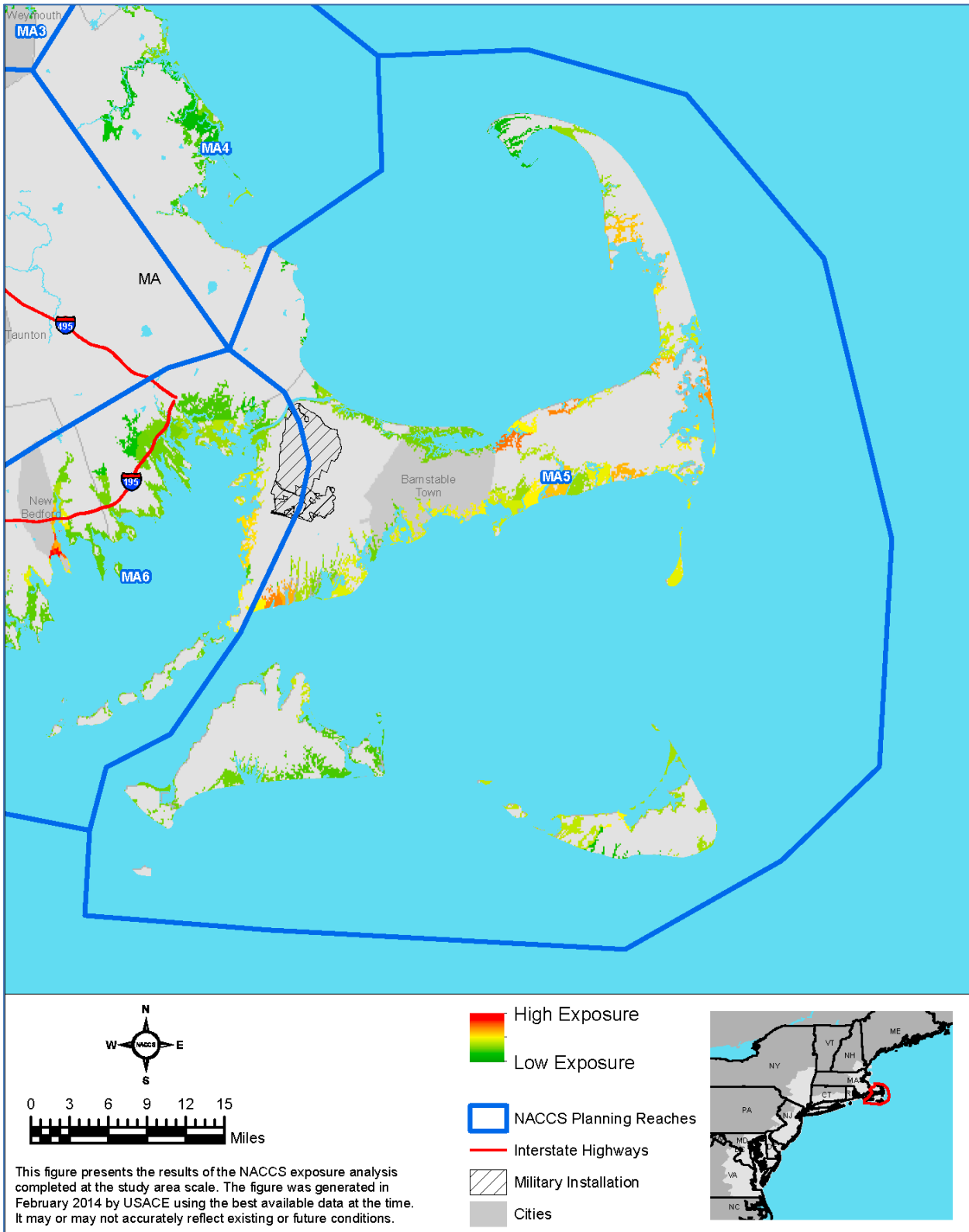


Figure 11a-53: Social Vulnerability Characterization Exposure Index (MA5)

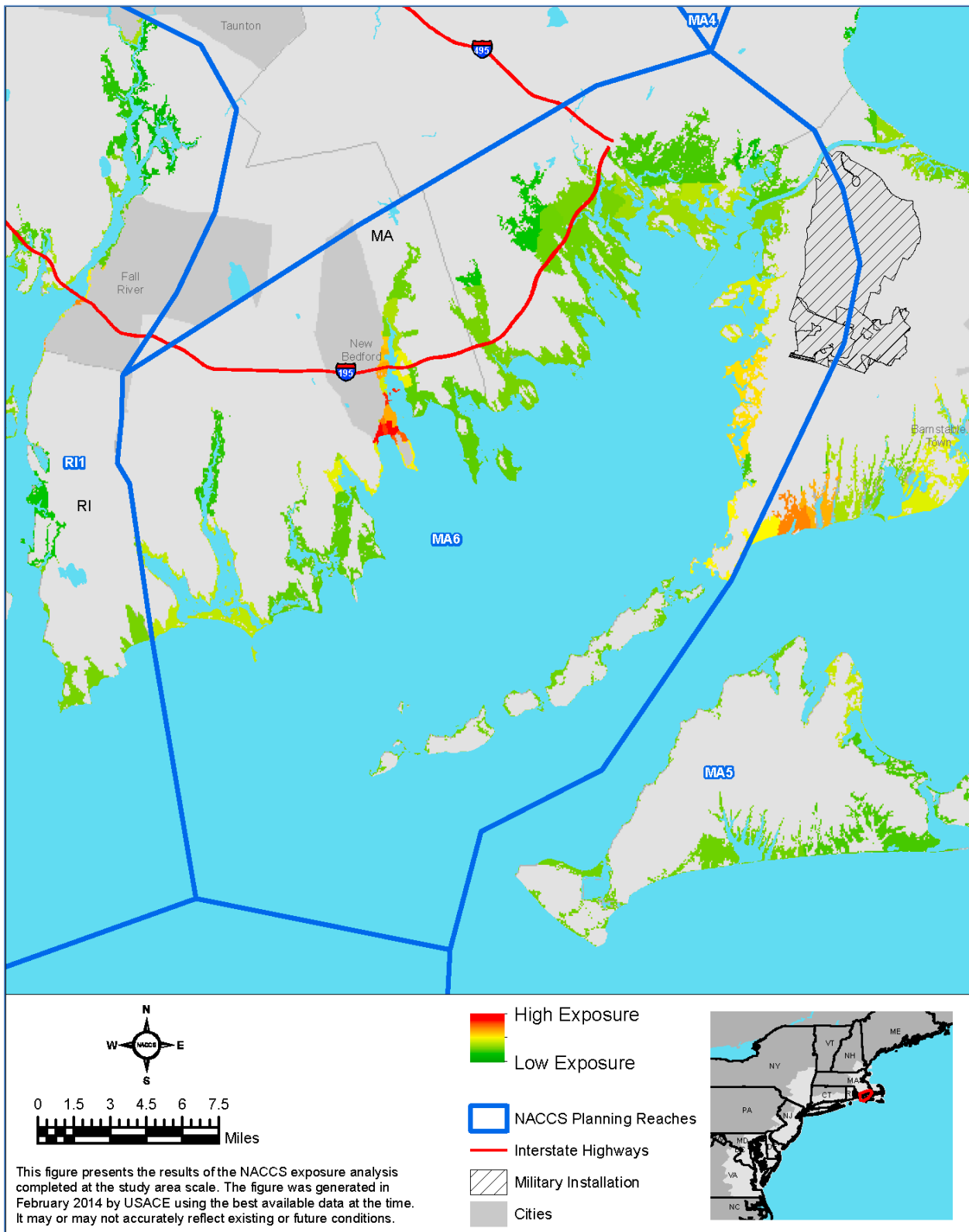


Figure 11a-54: Social Vulnerability Characterization Exposure Index (MA6)

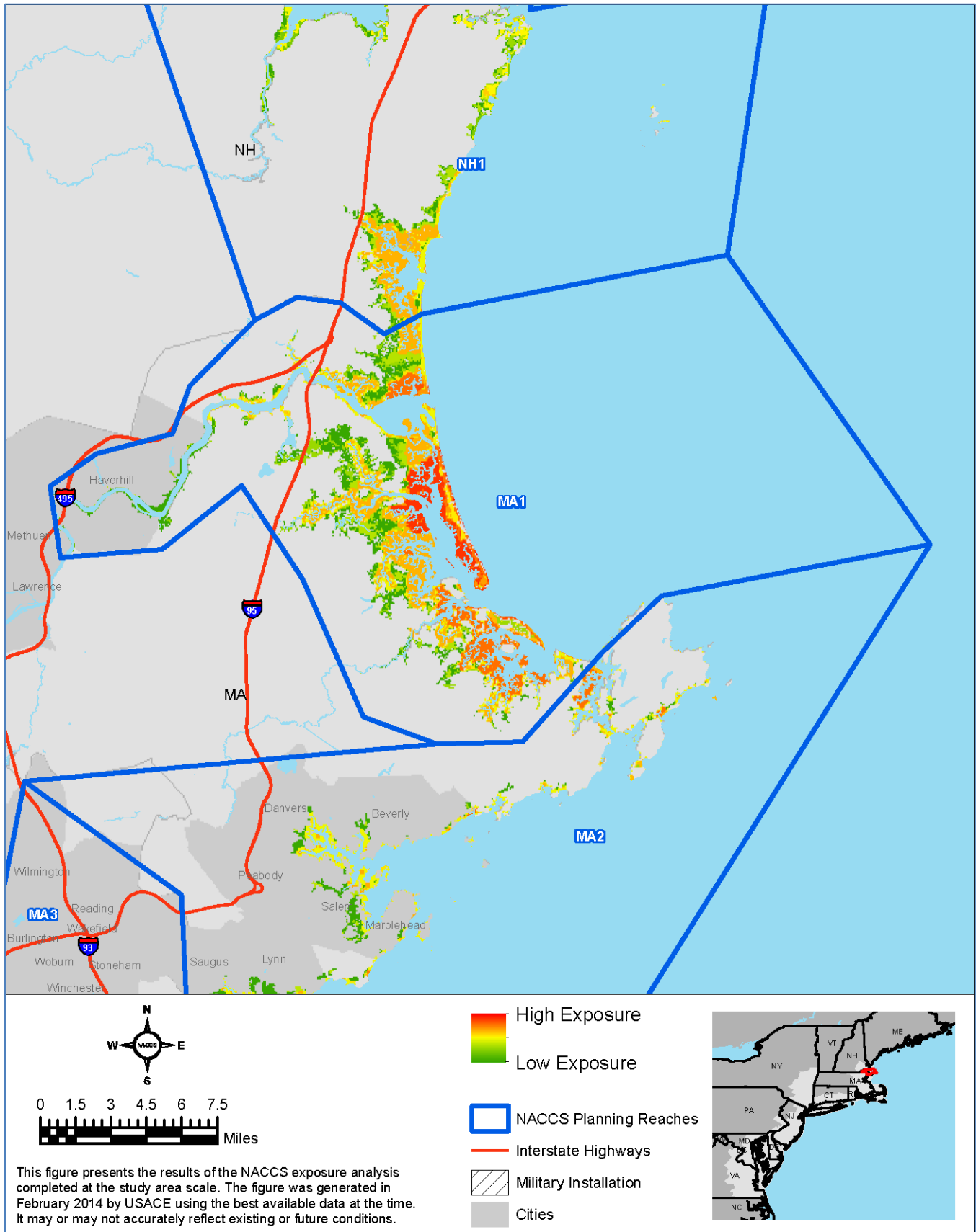


Figure 11a-55: Environmental and Cultural Resources Exposure Index (MA1)

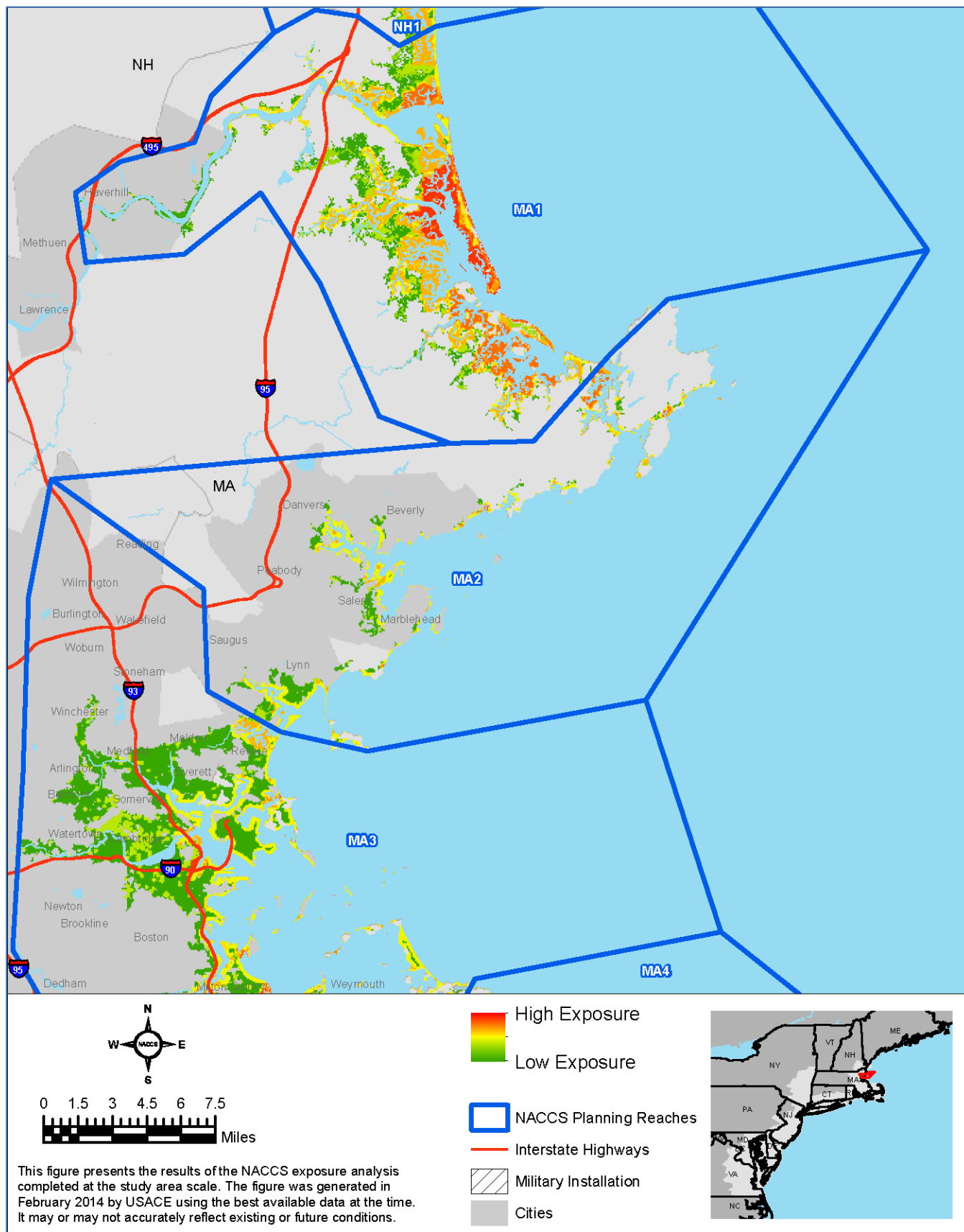


Figure 11a-56: Environmental and Cultural Resources Exposure Index (MA2)



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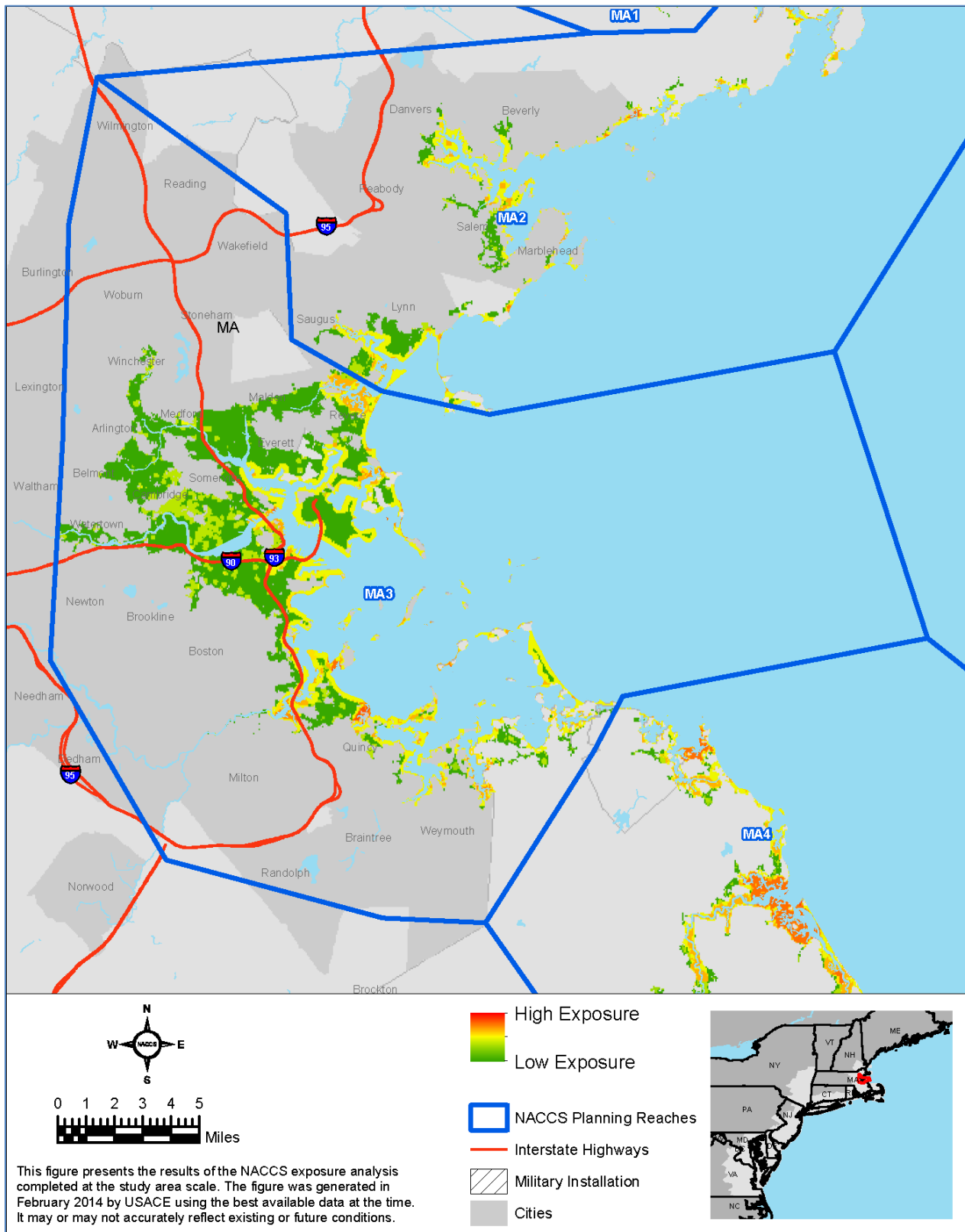


Figure 11a-57: Environmental and Cultural Resources Exposure Index (MA3)

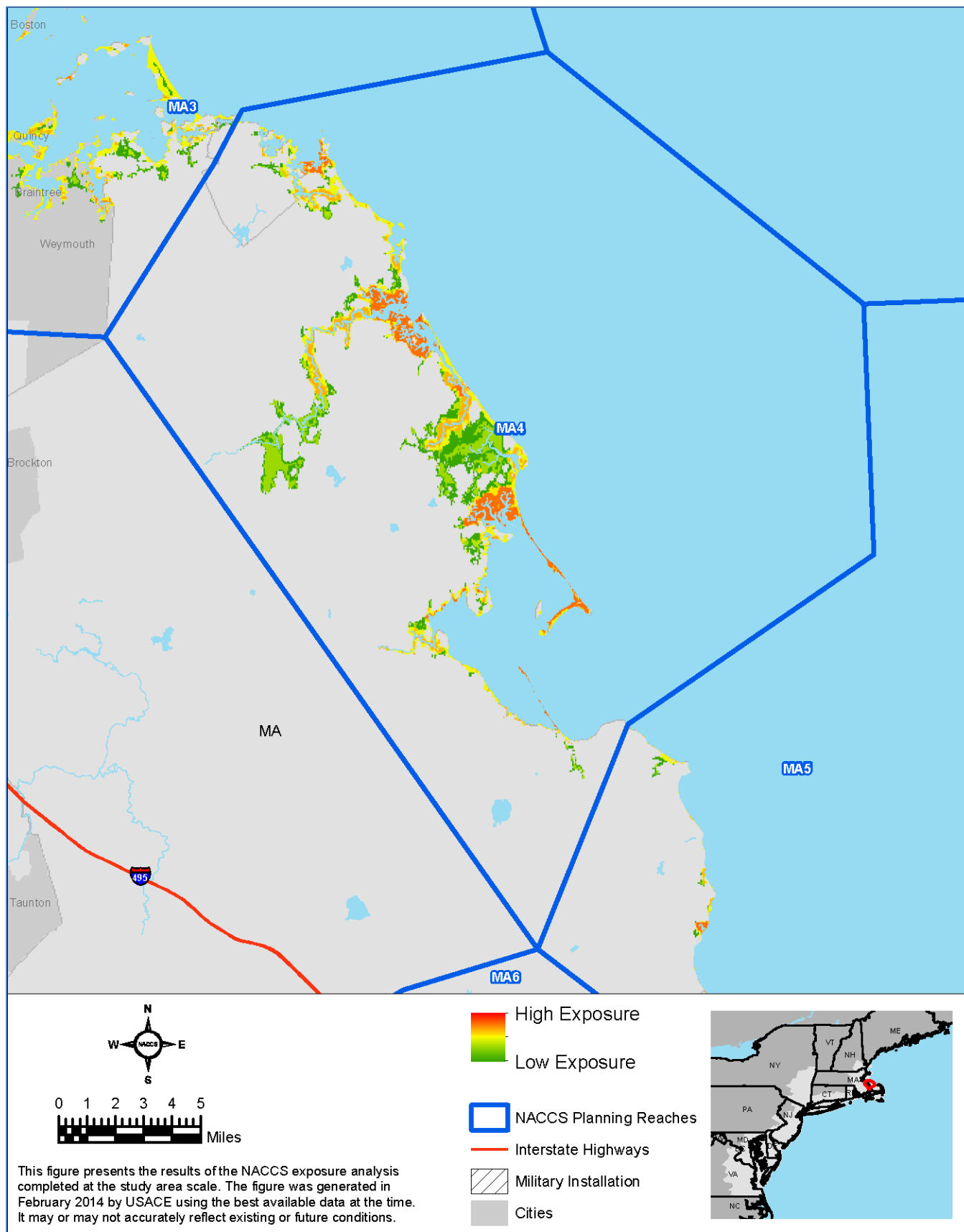


Figure 11a-58: Environmental and Cultural Resources Exposure Index (MA4)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

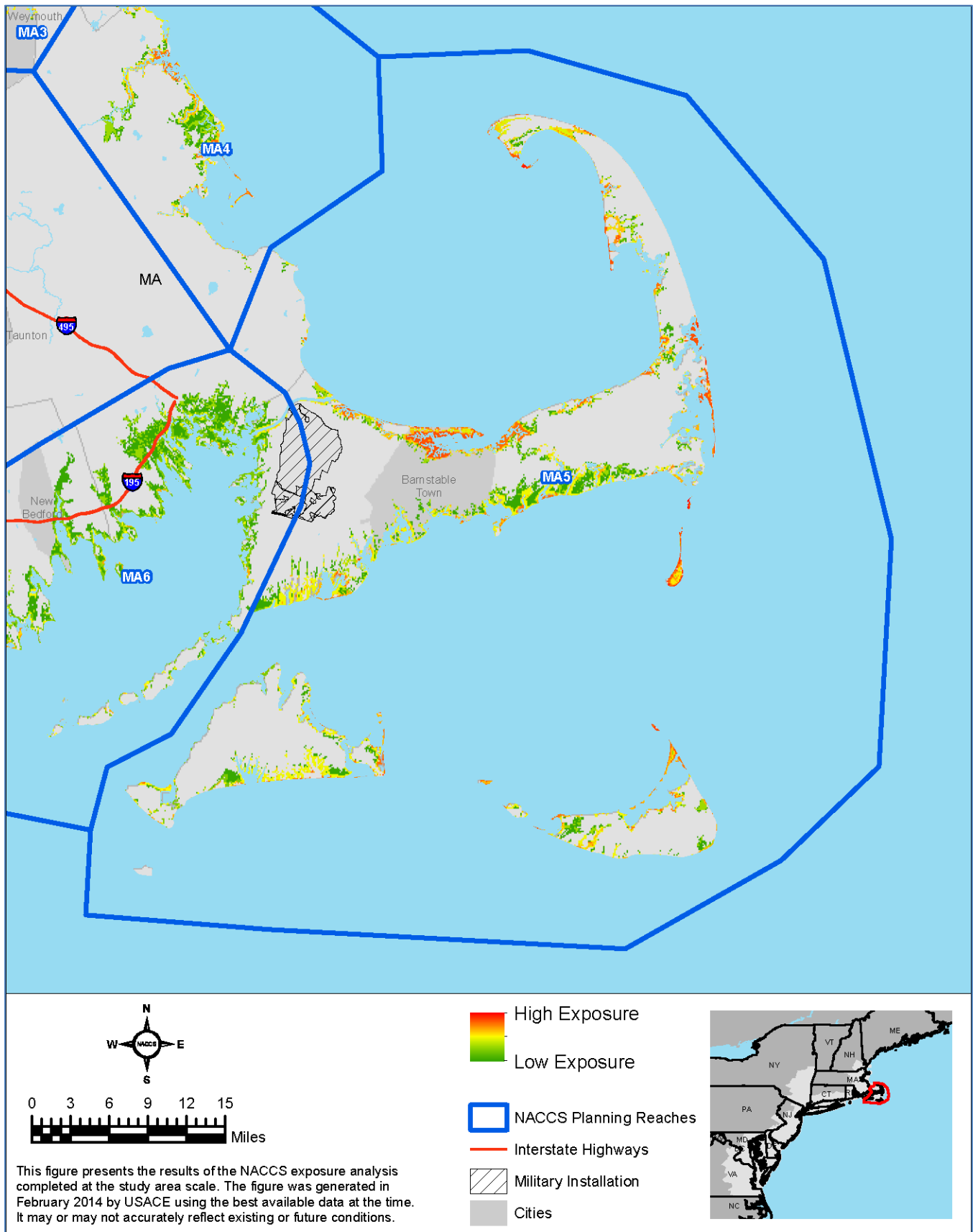


Figure 11a-59: Environmental and Cultural Resources Exposure Index (MA5)

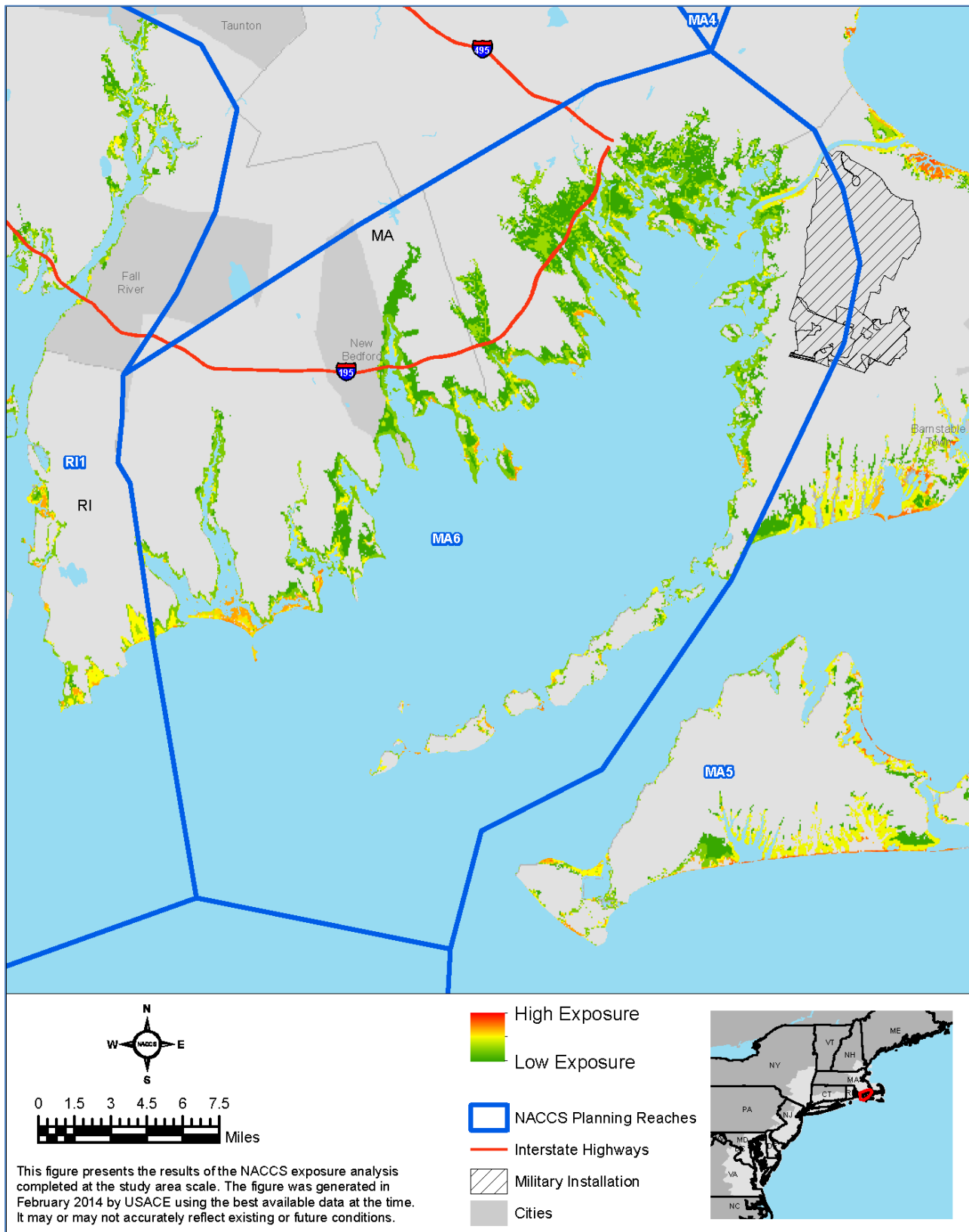


Figure 11a-60: Environmental and Cultural Resources Exposure Index (MA6)

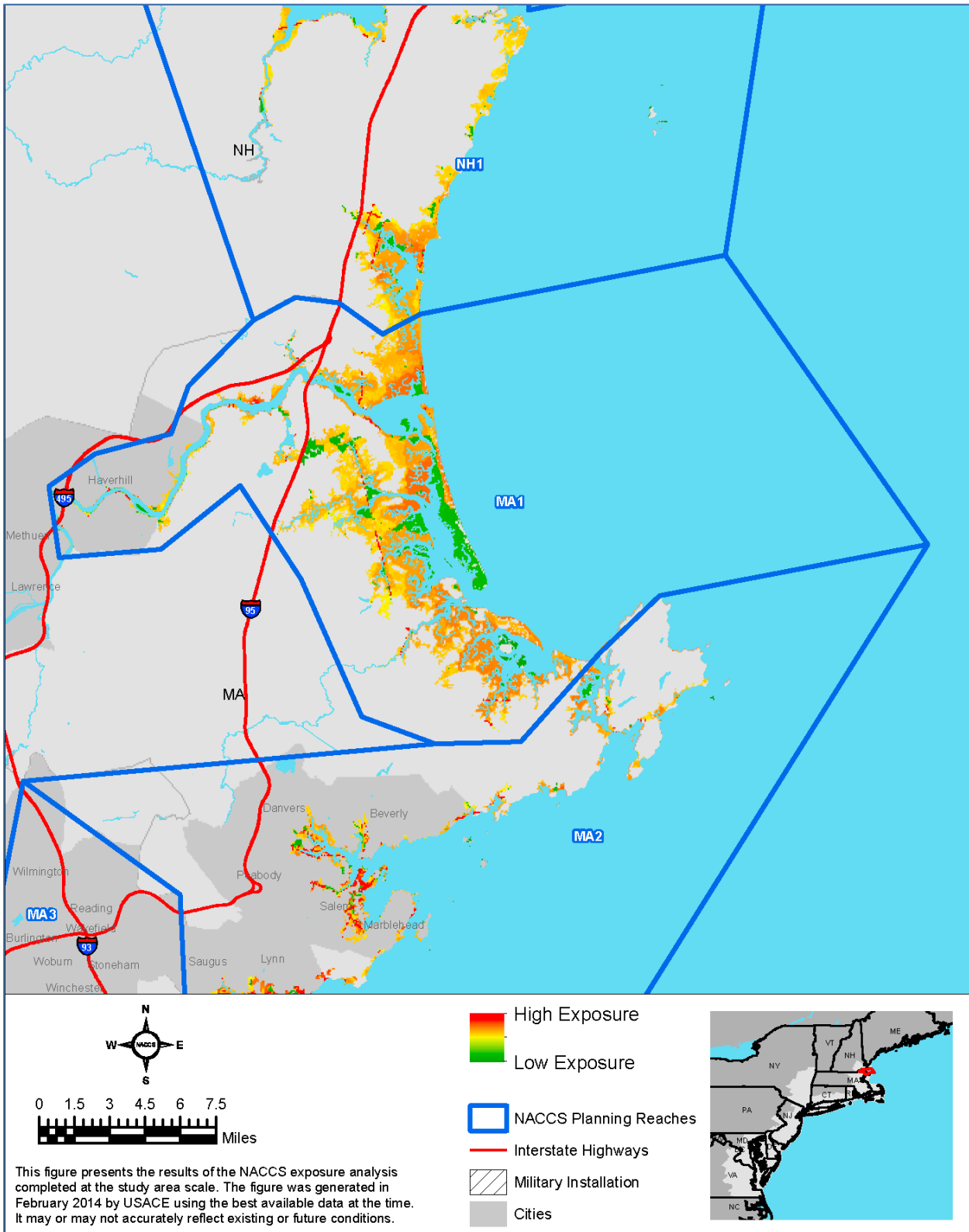


Figure 11a-61: Composite Exposure Index (MA1)

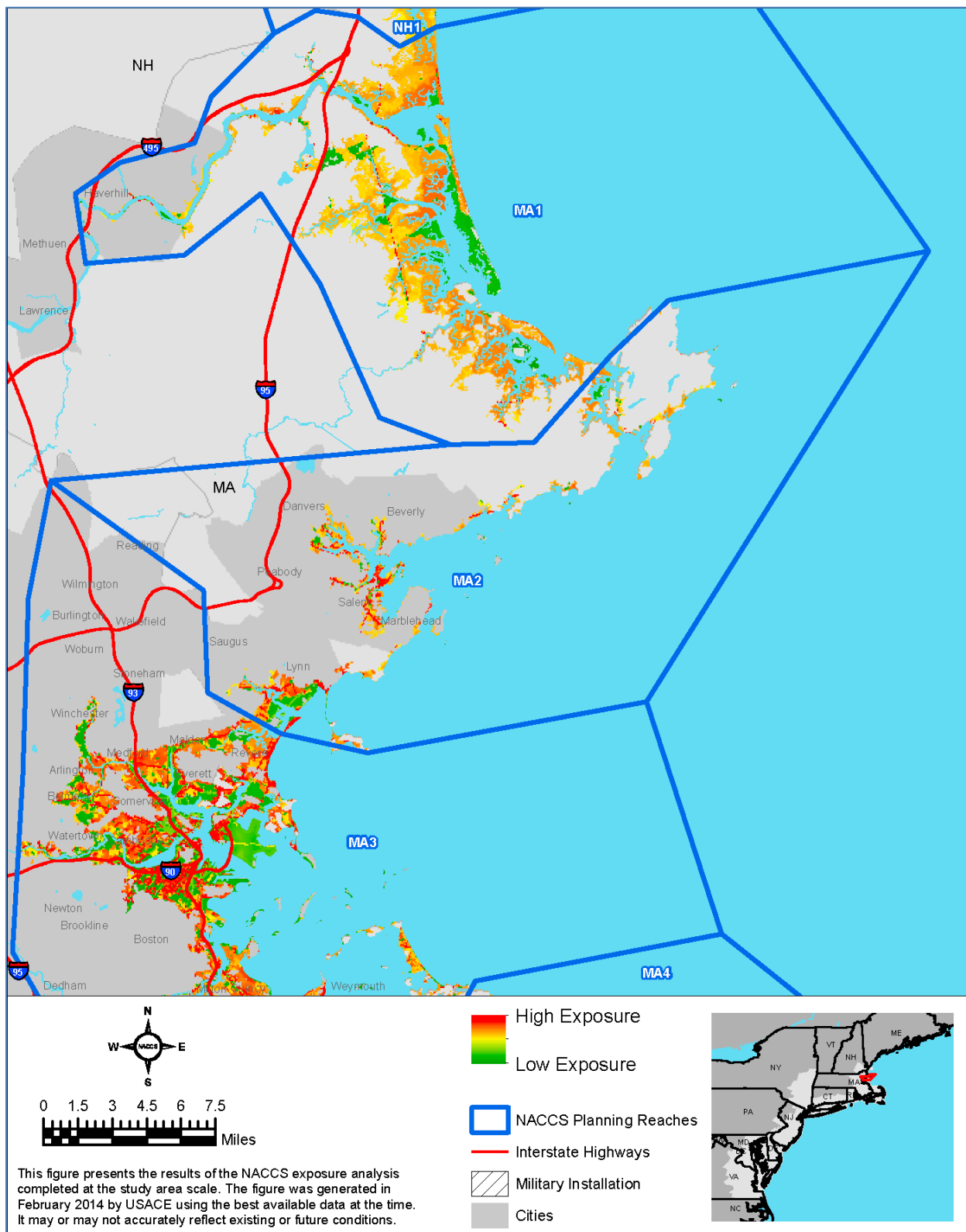


Figure 11a-62: Composite Exposure Index (MA2)



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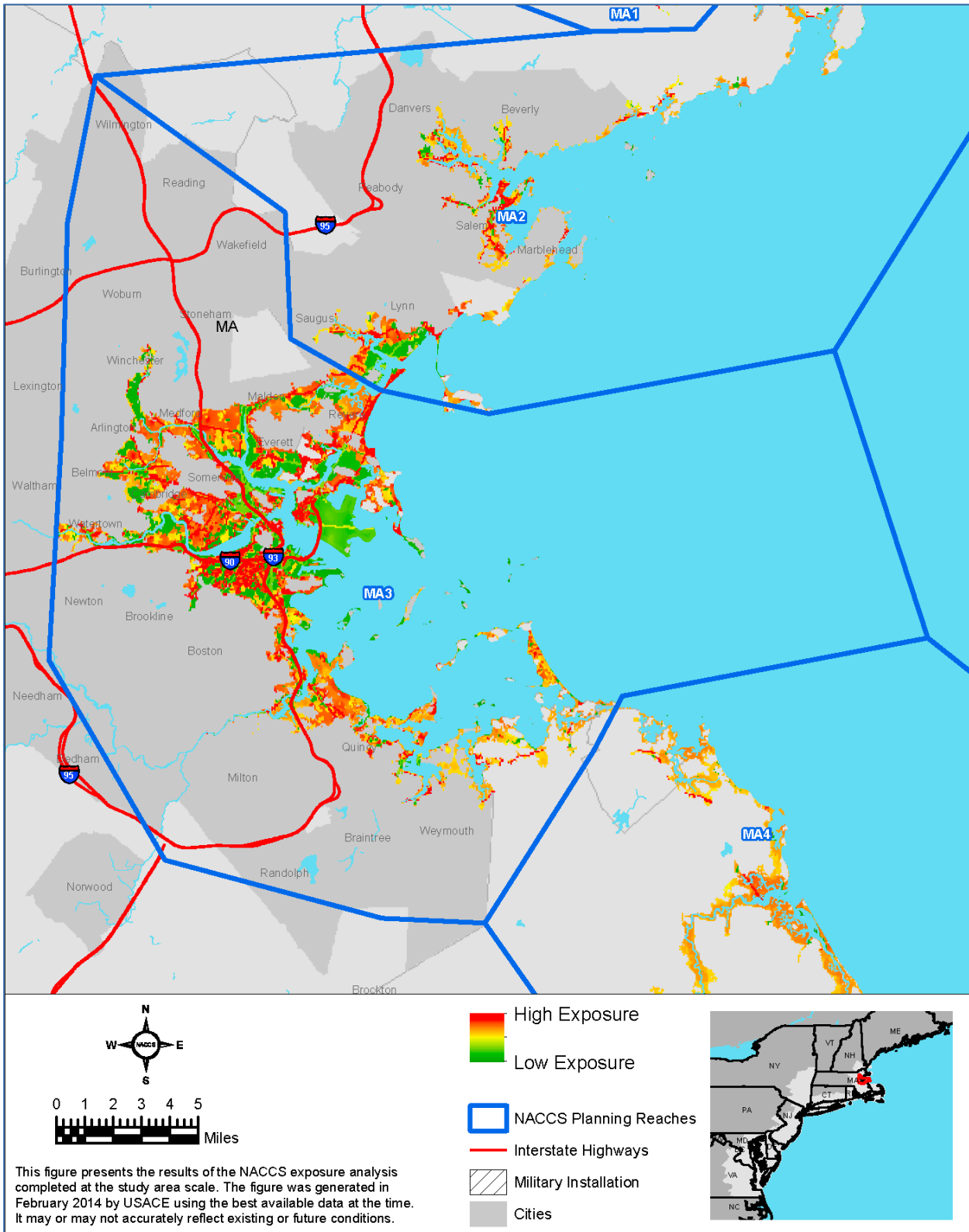


Figure 1Ia-63: Composite Exposure Index (MA3)

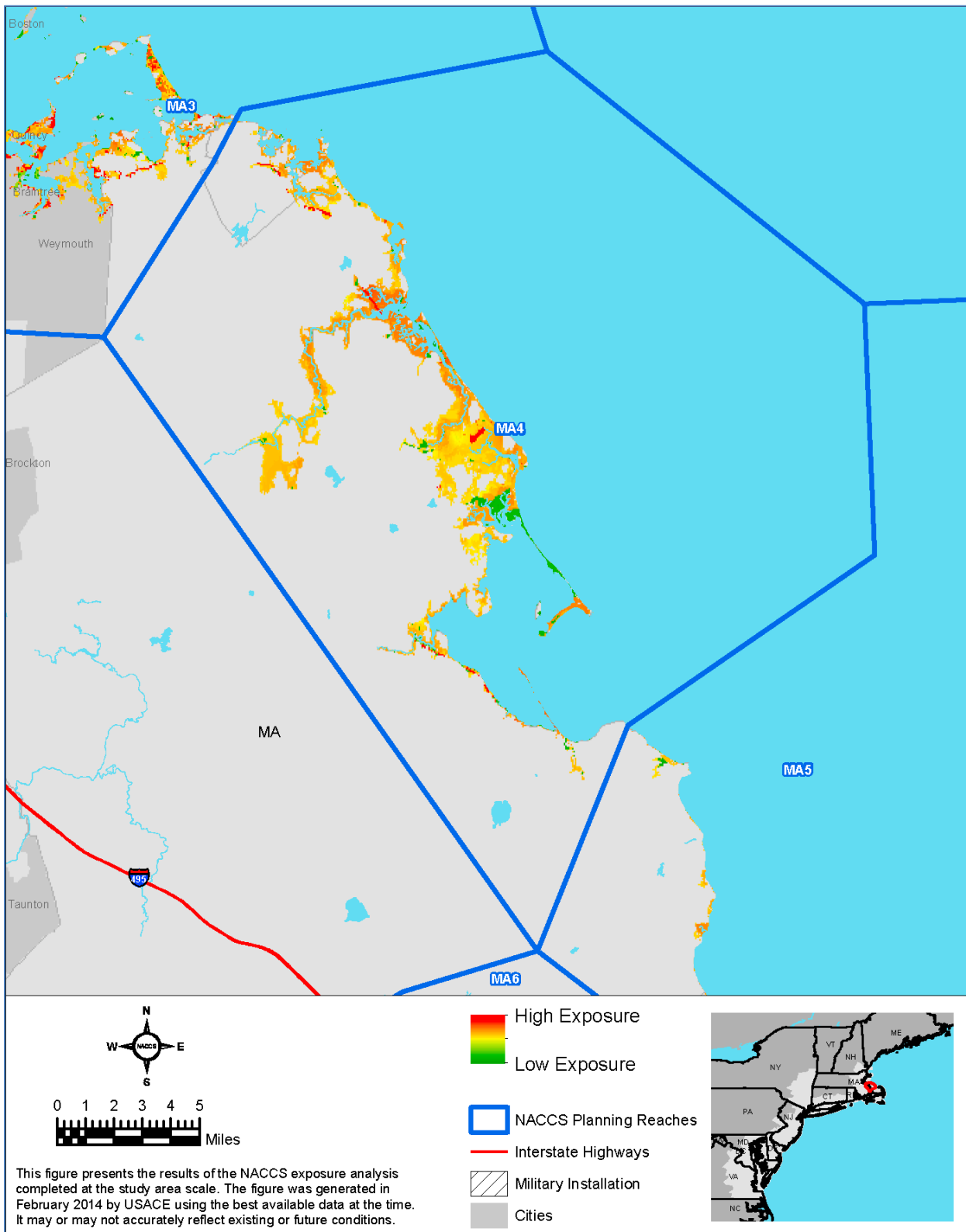


Figure 11a-64: Composite Exposure Index (MA4)

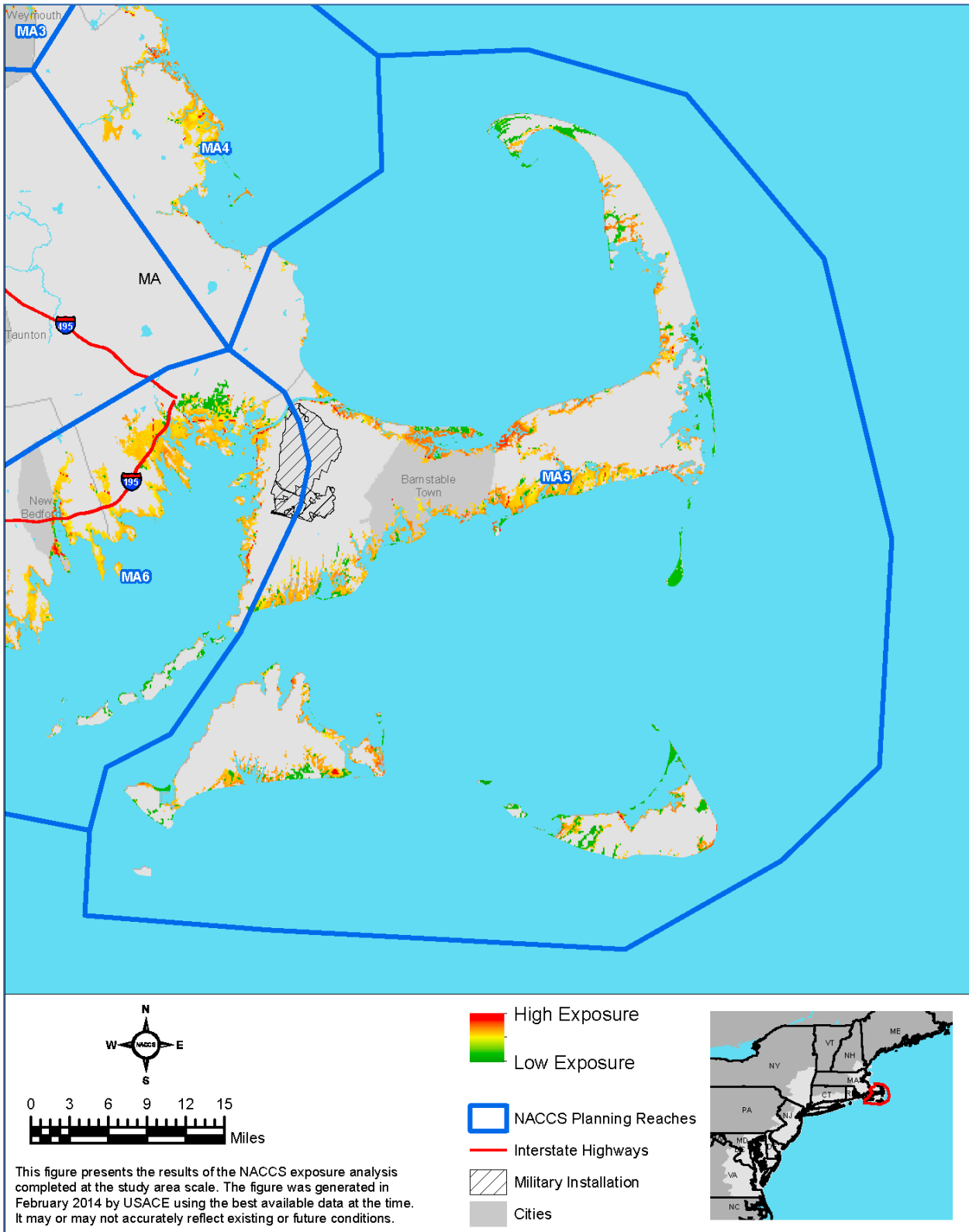


Figure 11a-65: Composite Exposure Index (MA5)

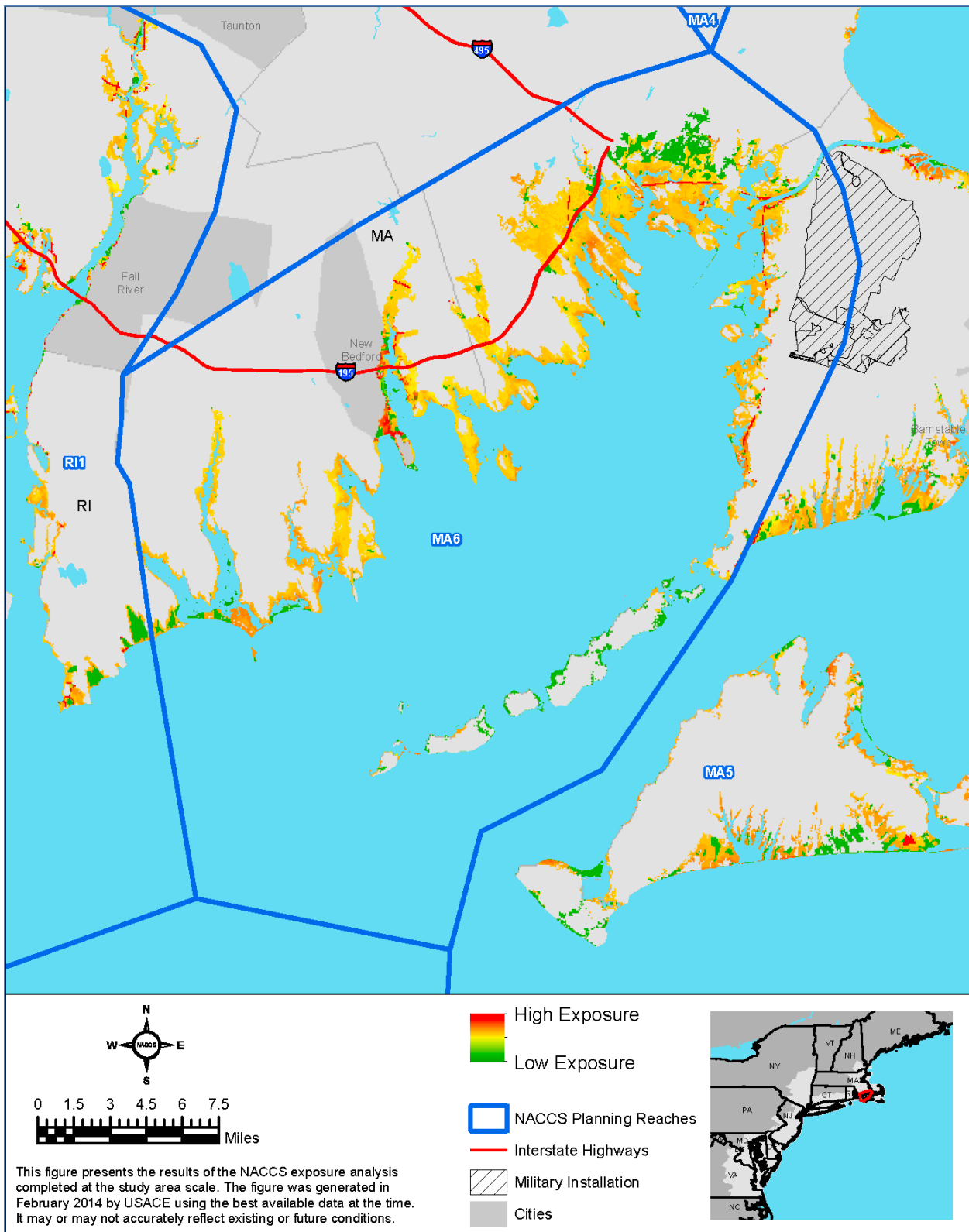


Figure 11a-66: Composite Exposure Index (MA6)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

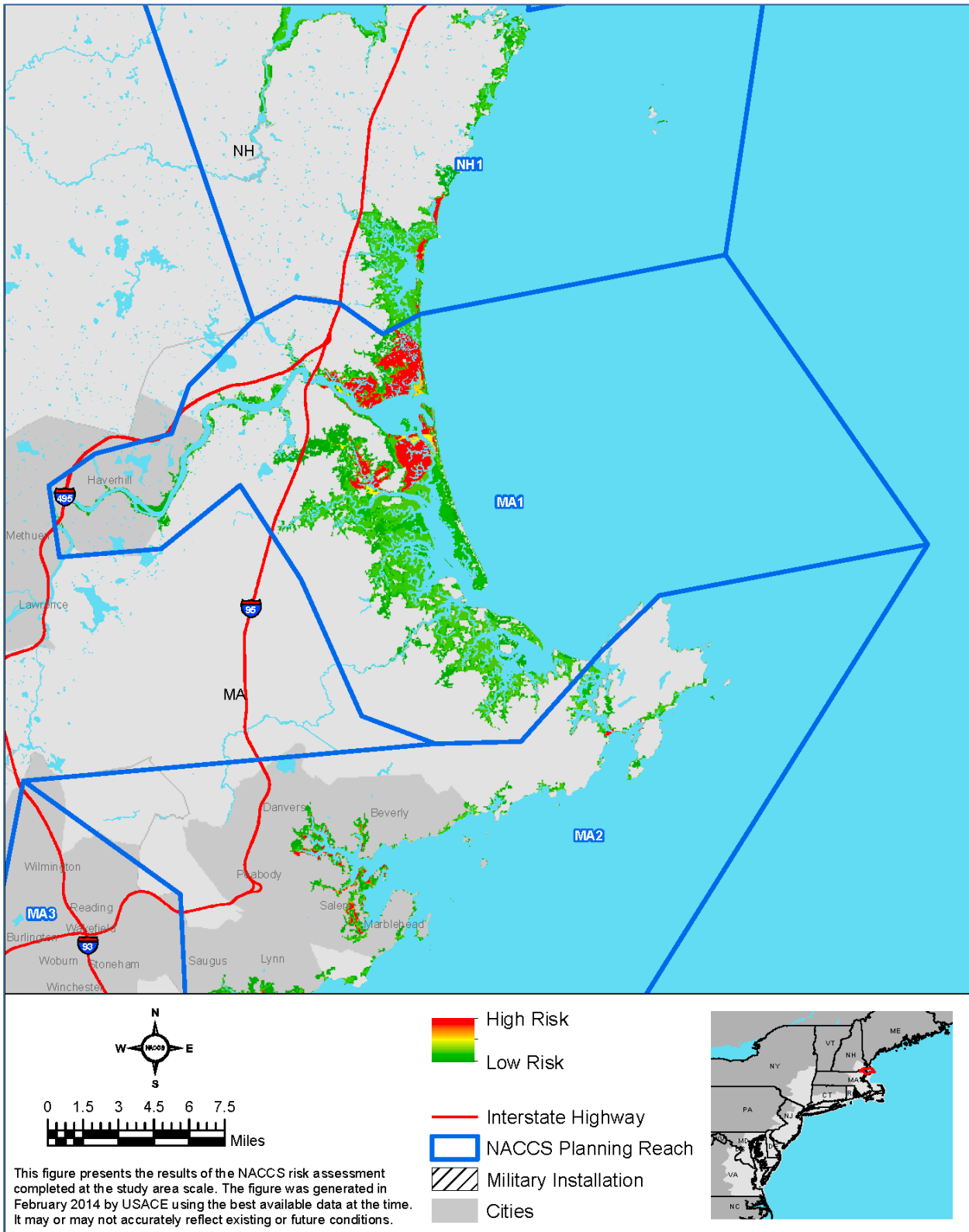


Figure 1Ia-67: Risk Assessment (MA1)

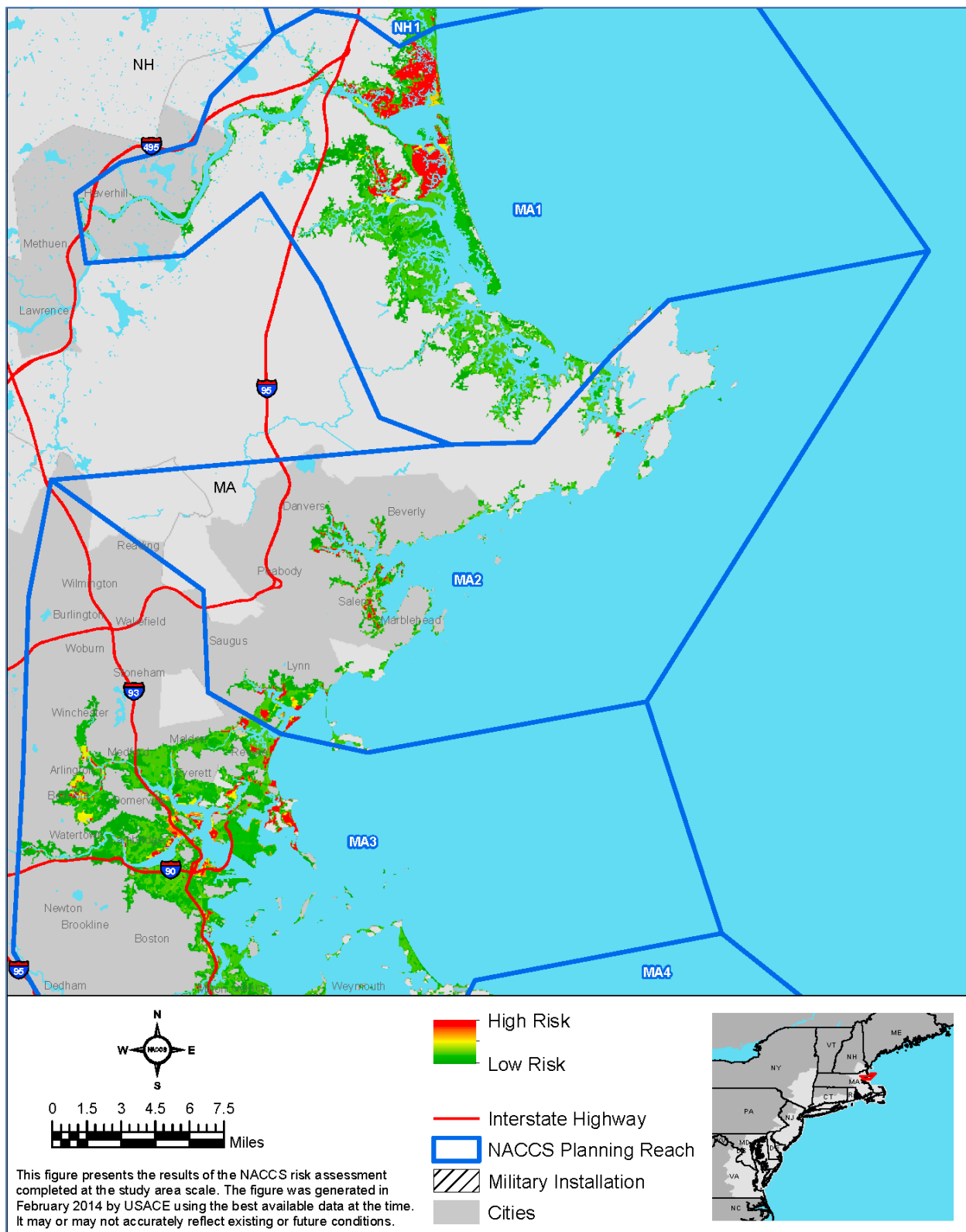


Figure 11a-68: Risk Assessment (MA2)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

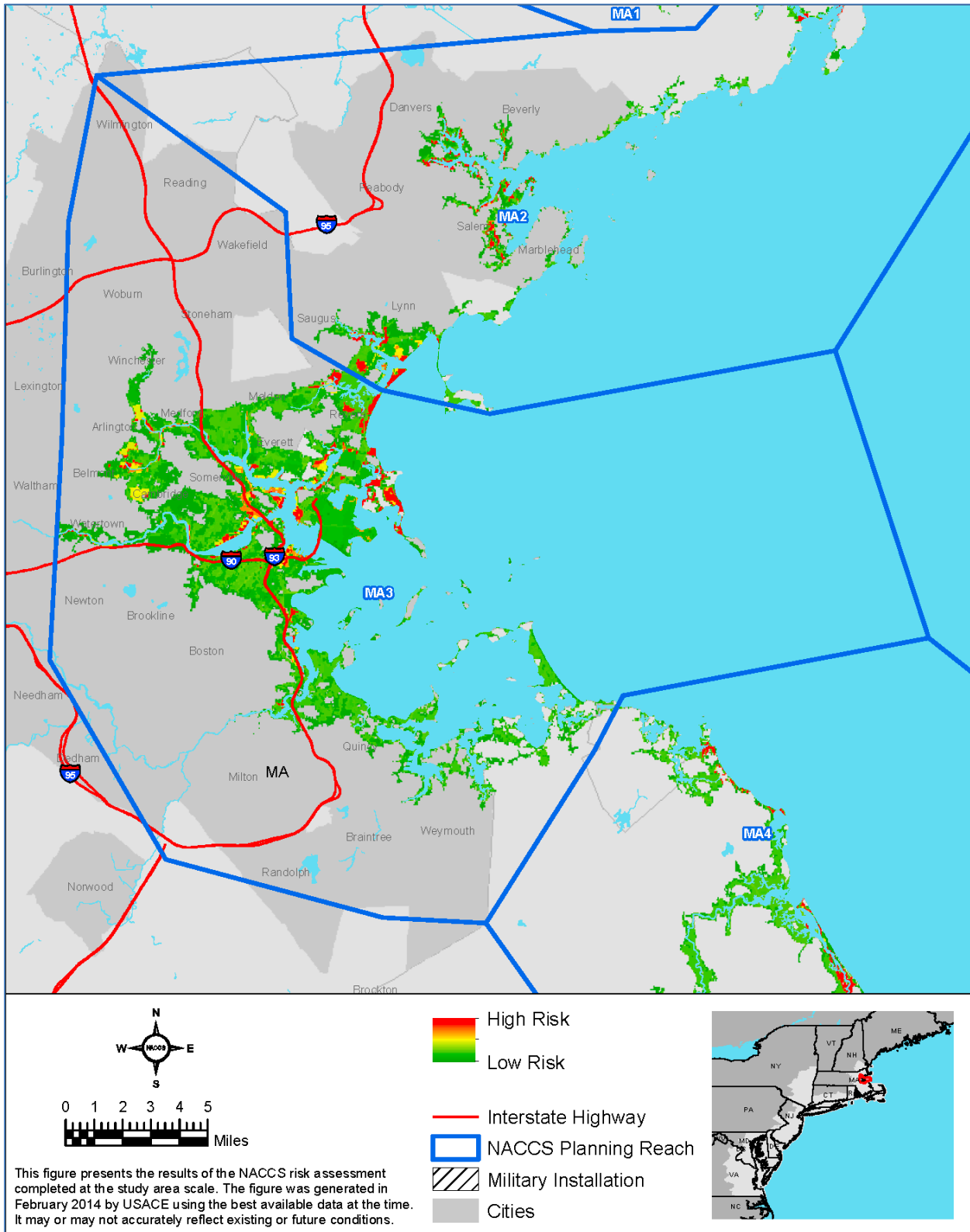


Figure 11a-69: Risk Assessment (MA3)

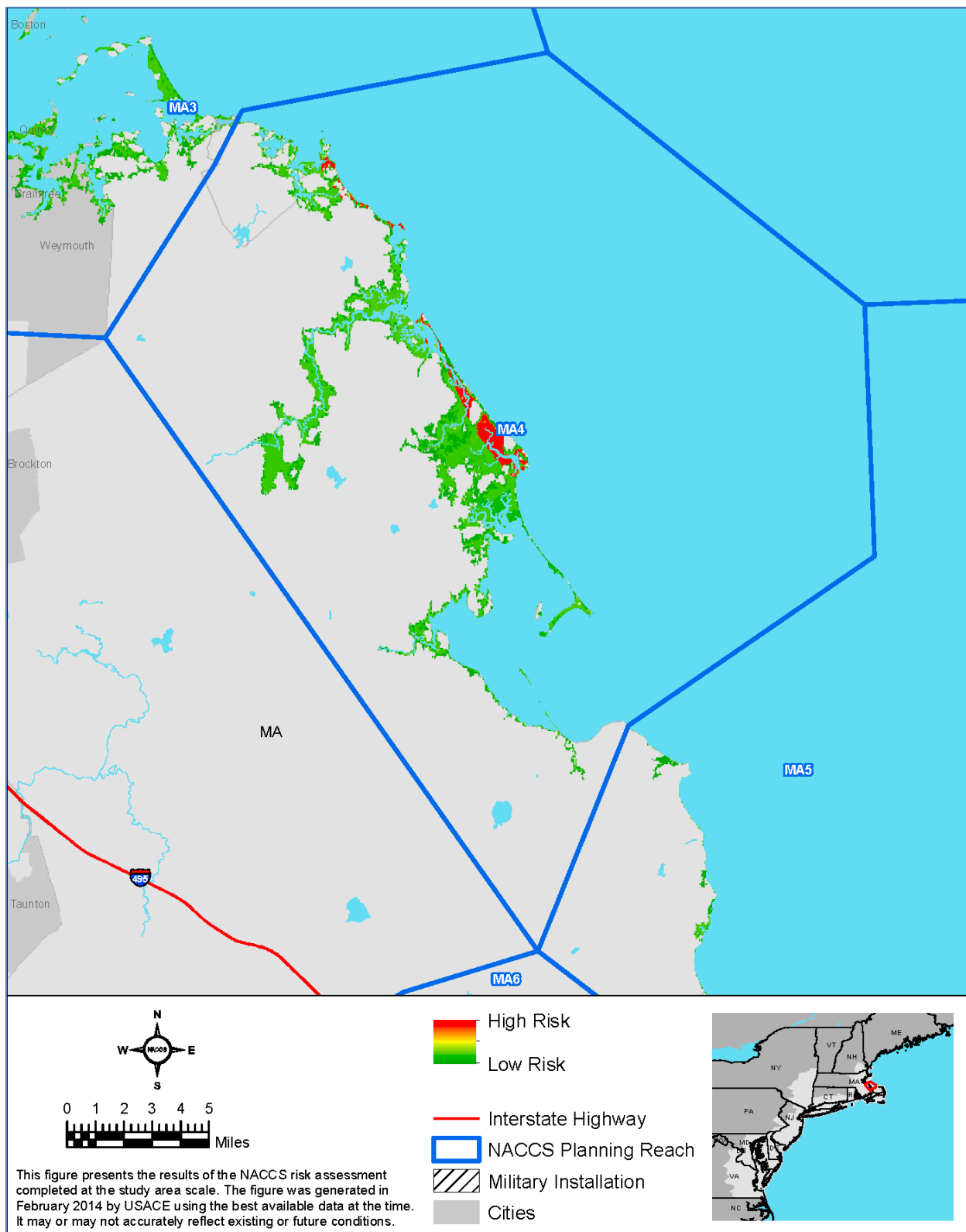


Figure 11a-70: Risk Assessment (MA4)

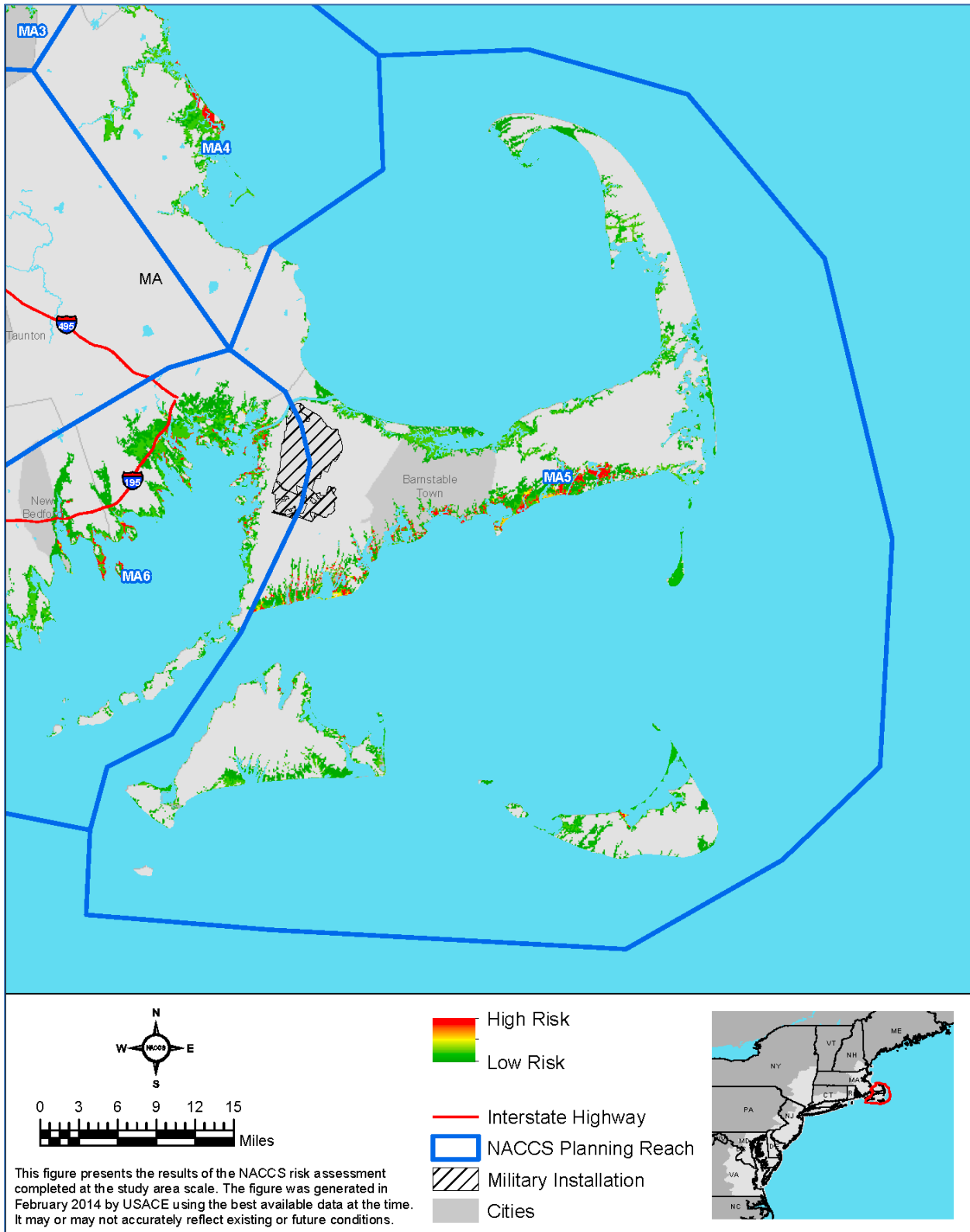


Figure Ila-71: Risk Assessment (MA5)

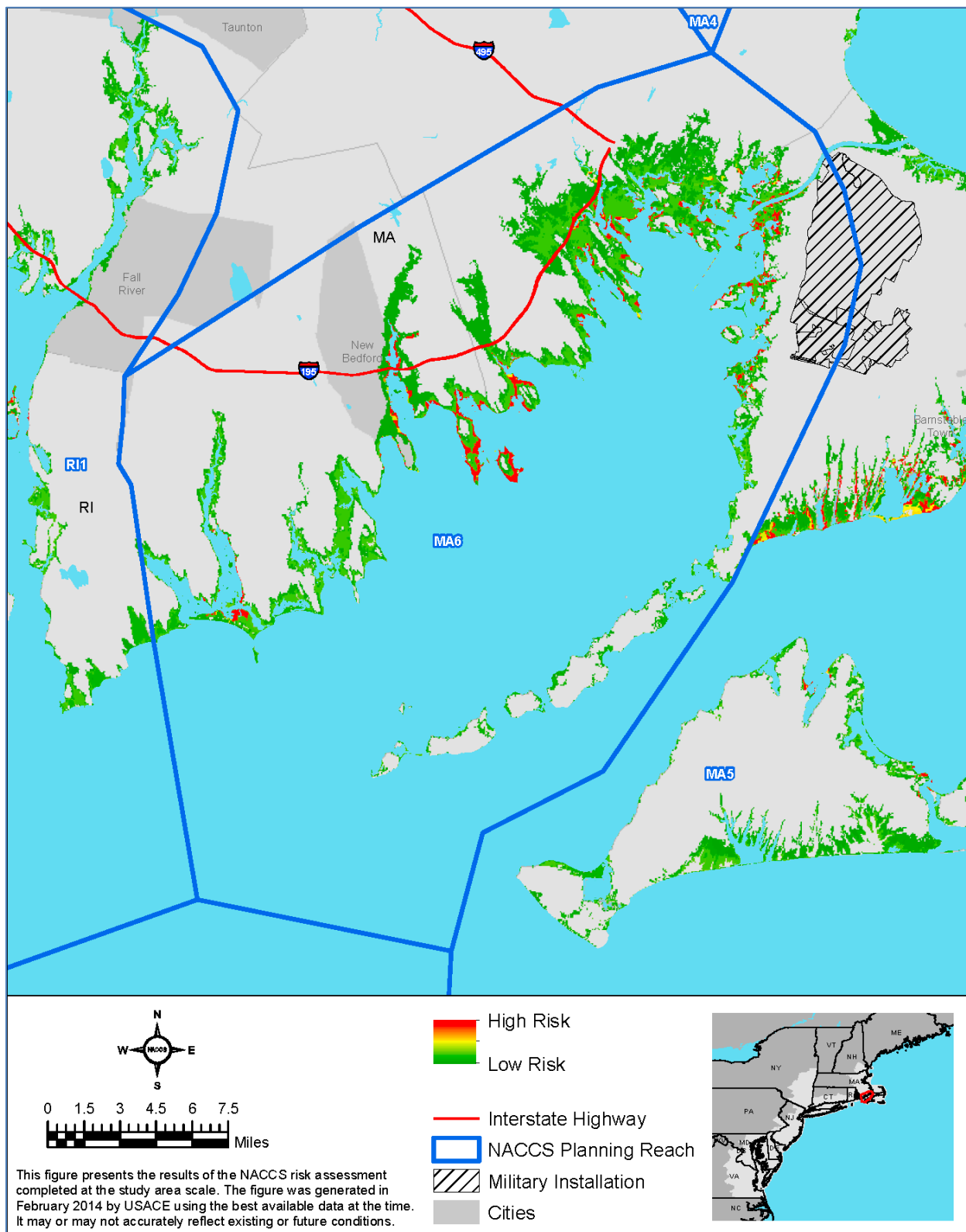


Figure 11a-72: Risk Assessment (MA6)

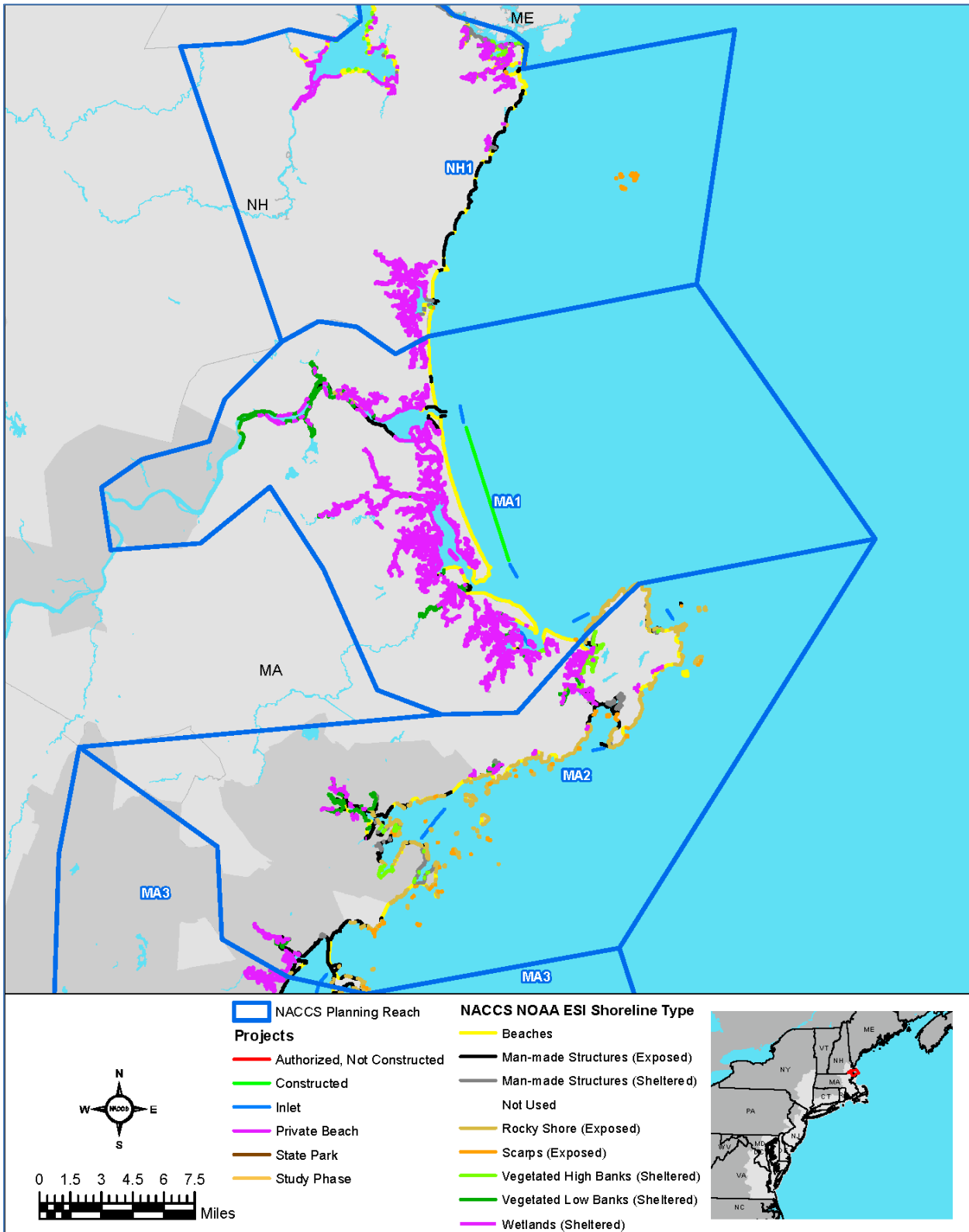


Figure 11a-73: Shoreline Types (MA1)

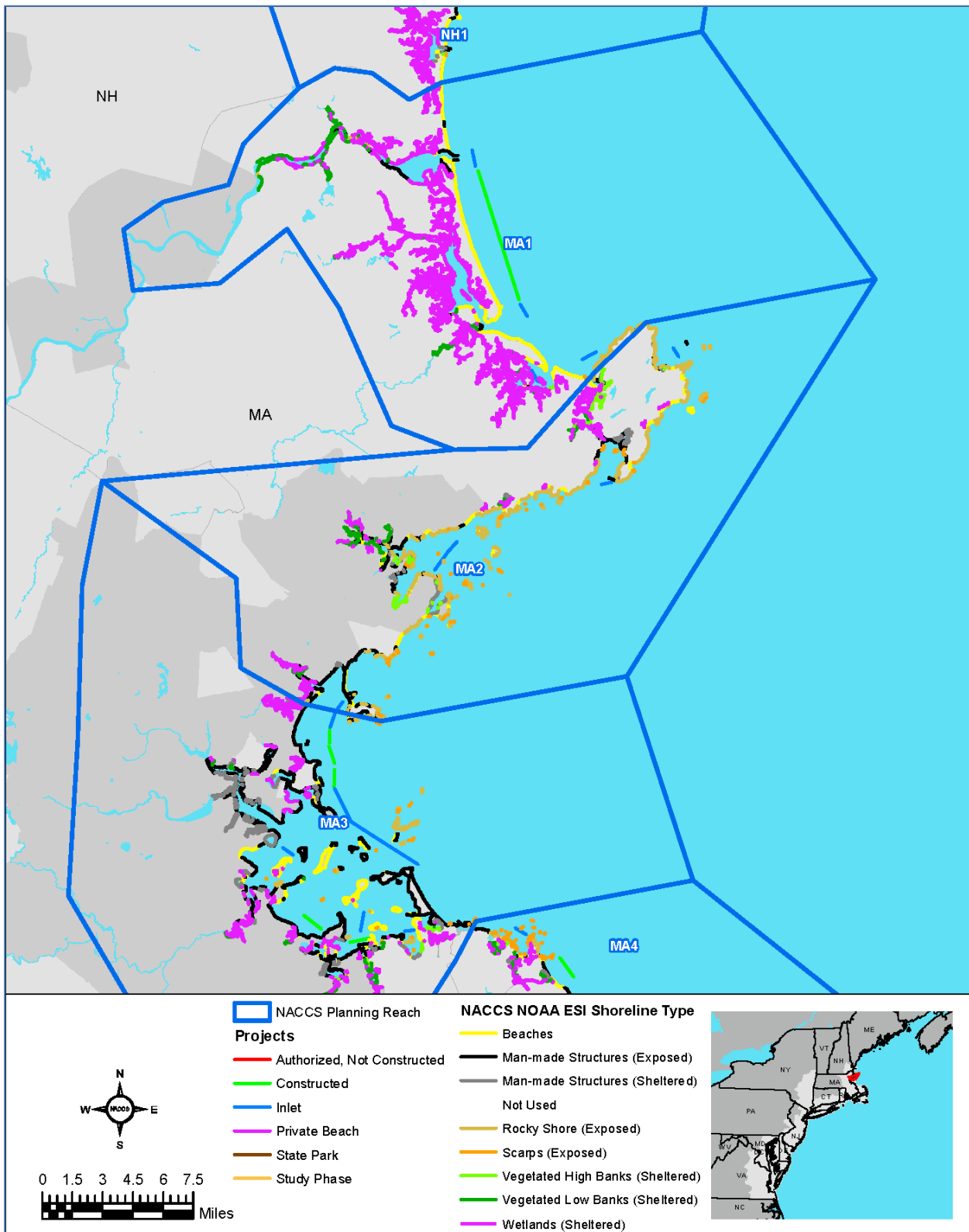


Figure 11a-74: Shoreline Types (MA2)

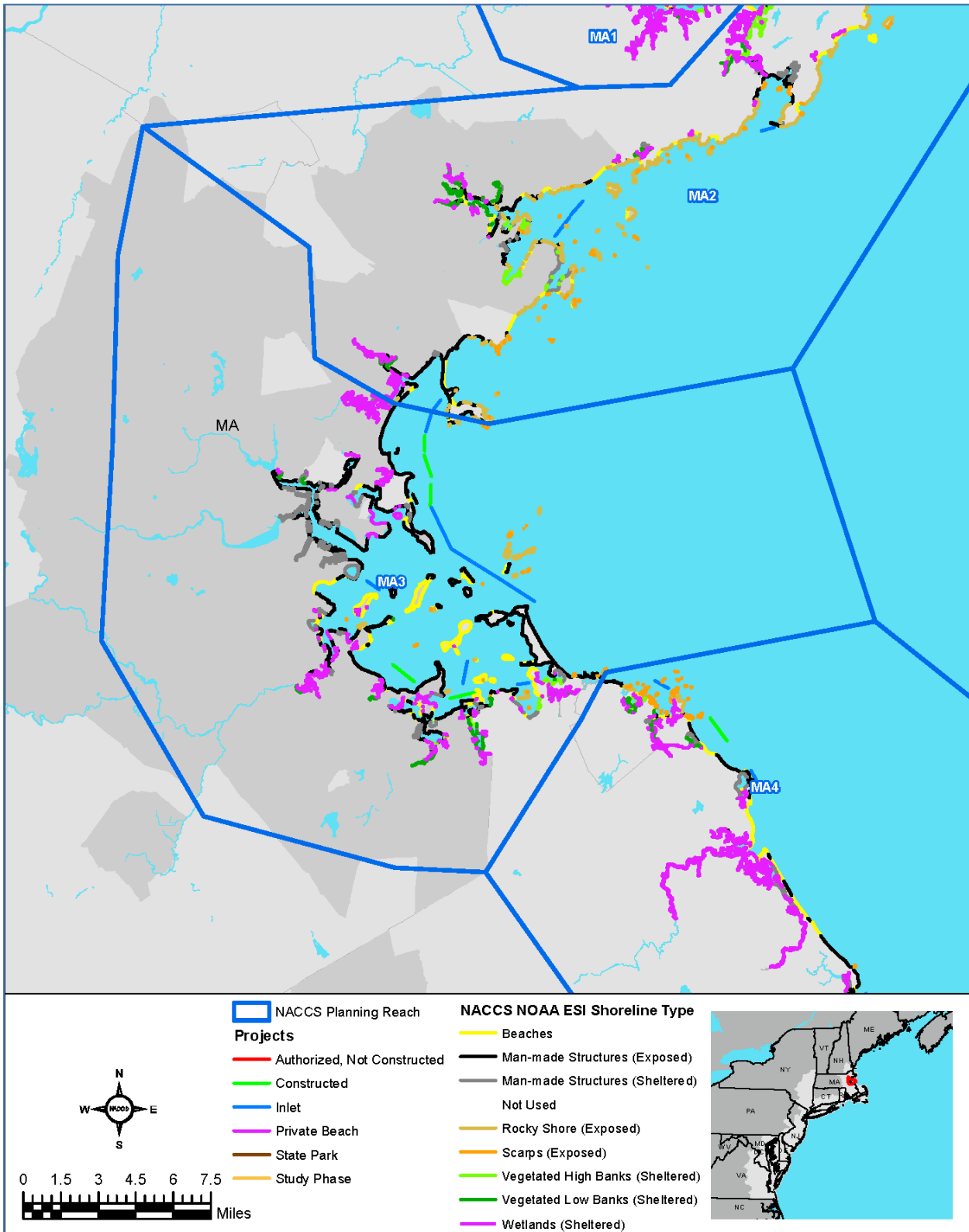


Figure 11a-75: Shoreline Types (MA3)

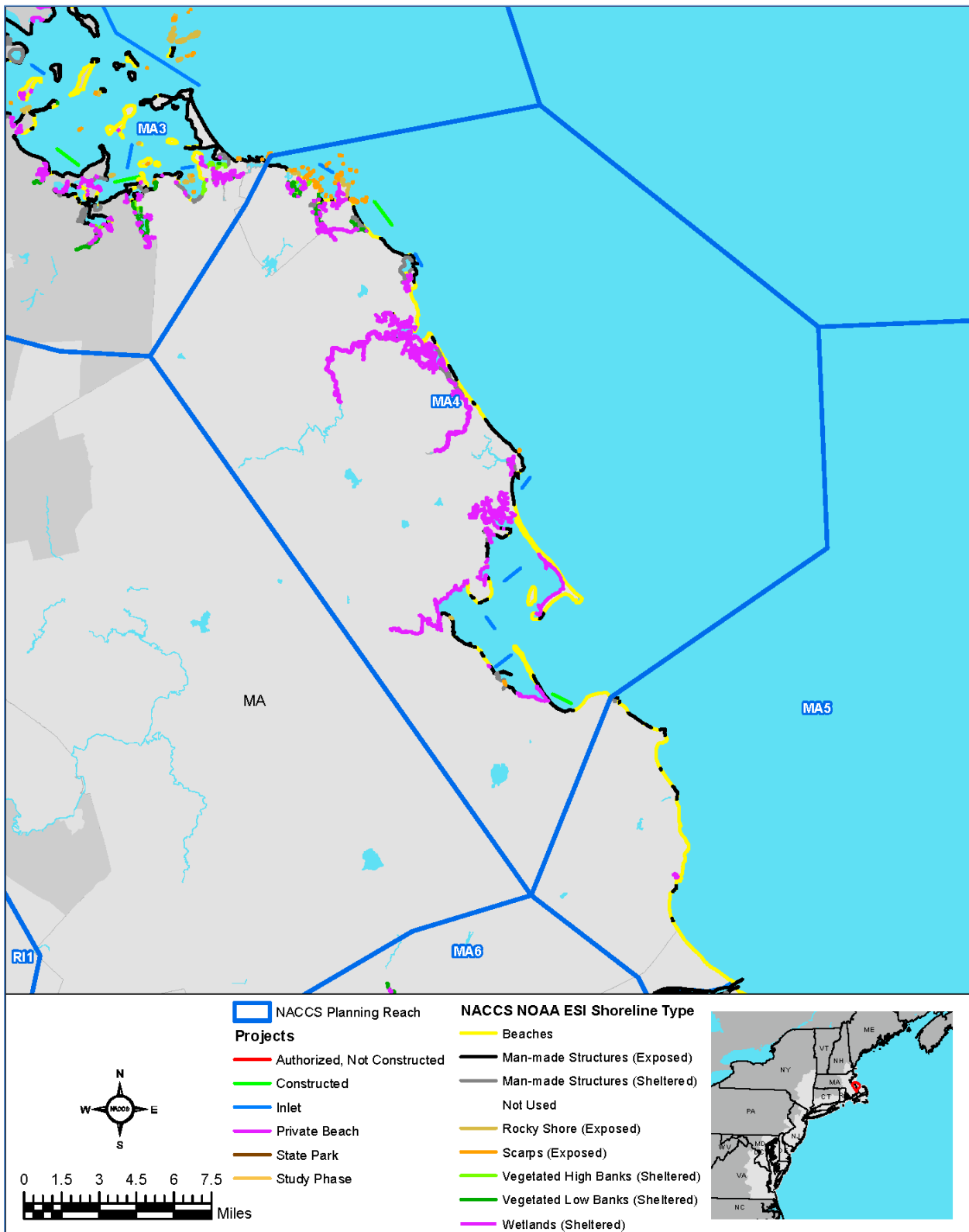


Figure 11a-76: Shoreline Types (MA4)

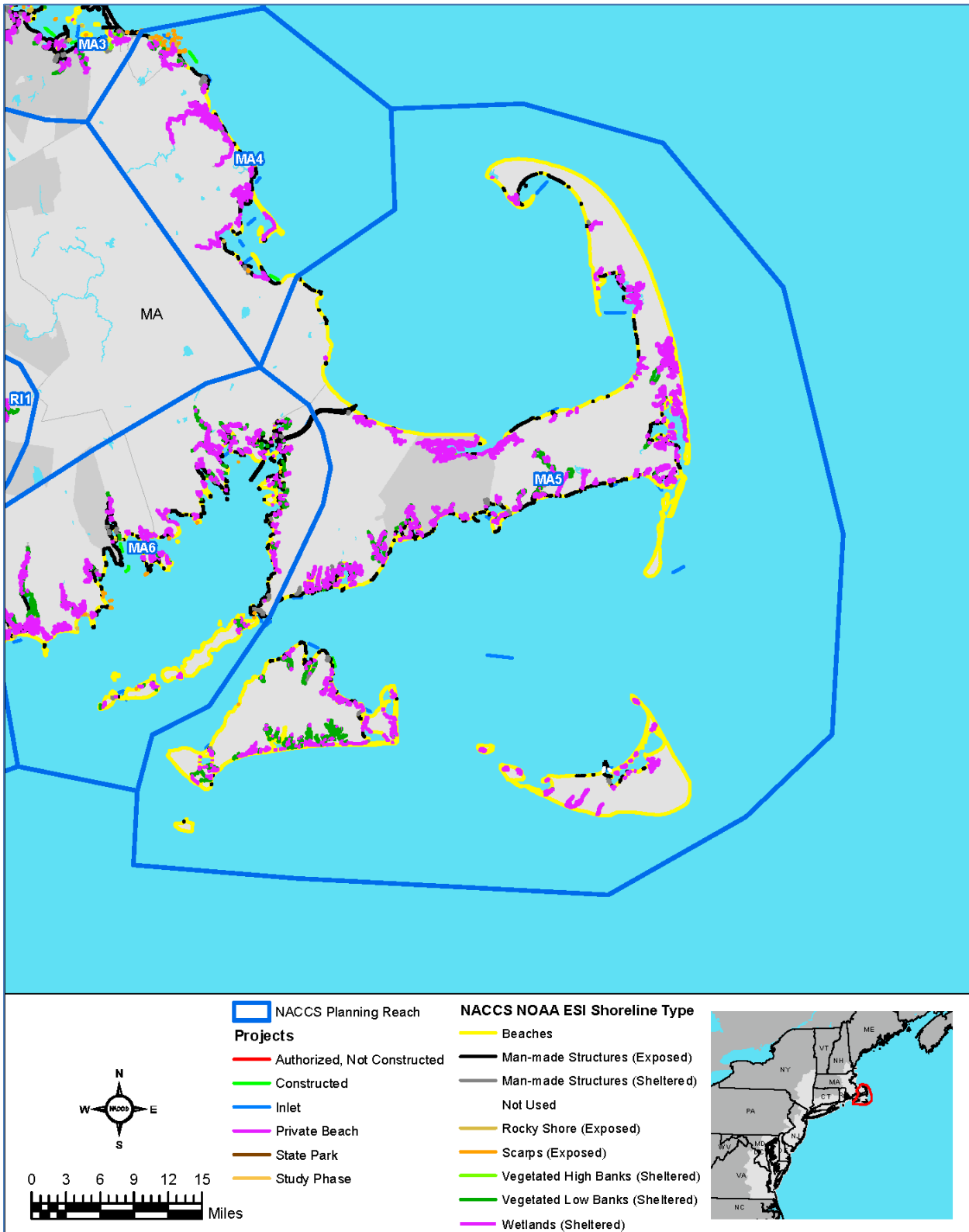


Figure 11a-77: Shoreline Types (MA5)

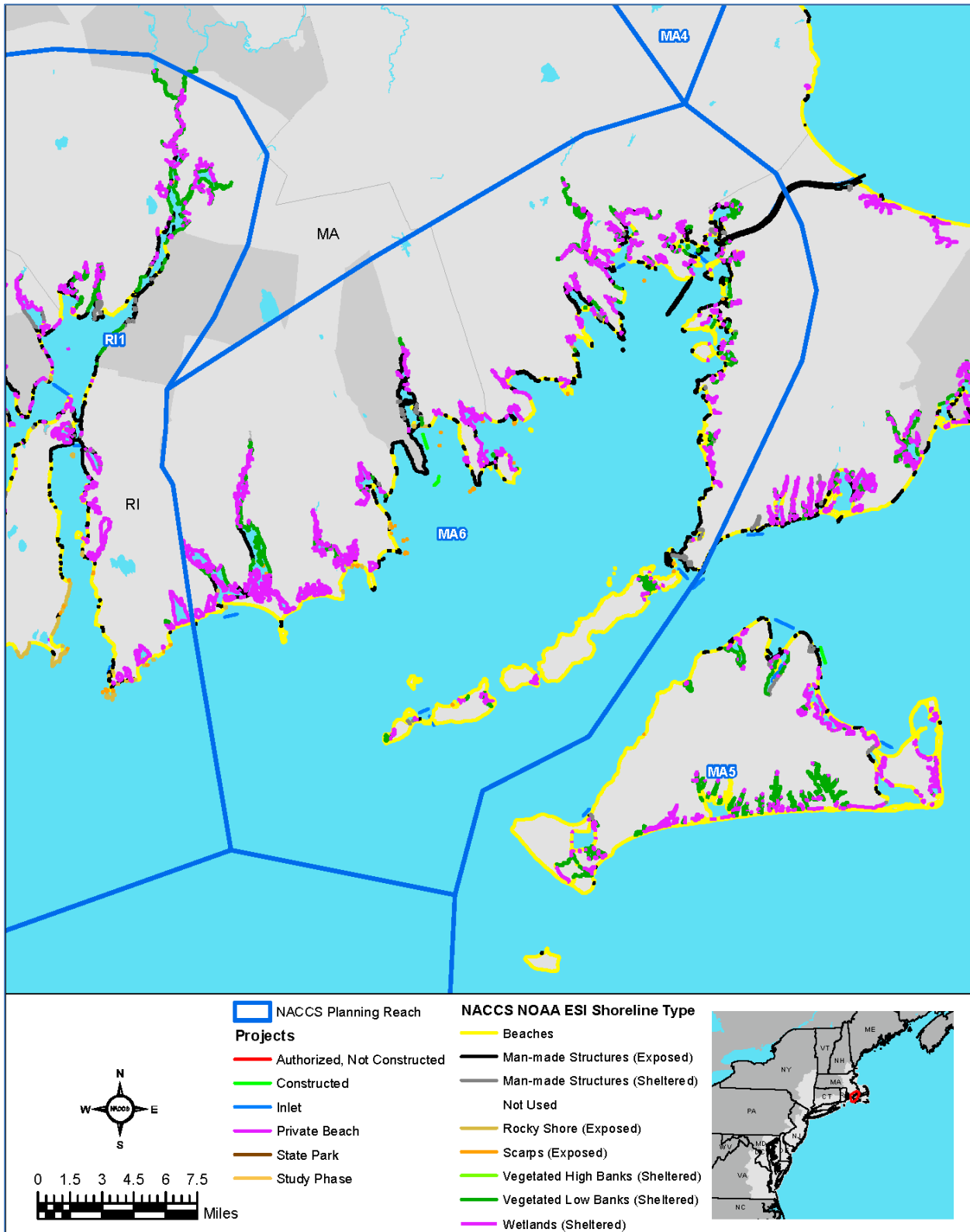


Figure 11a-78: Shoreline Types (MA6)

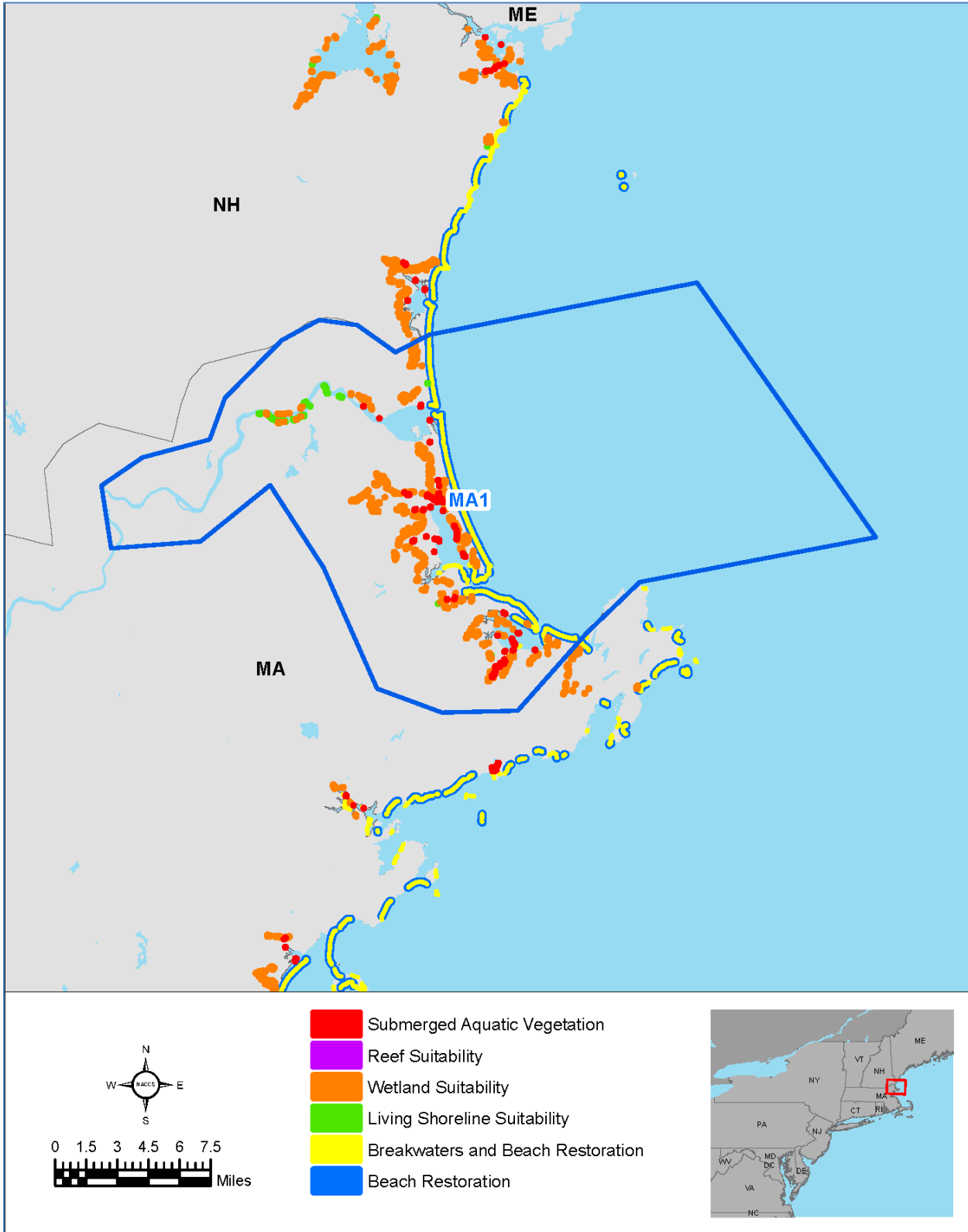


Figure 11a-79: NNBf Measures Screening (MA1)

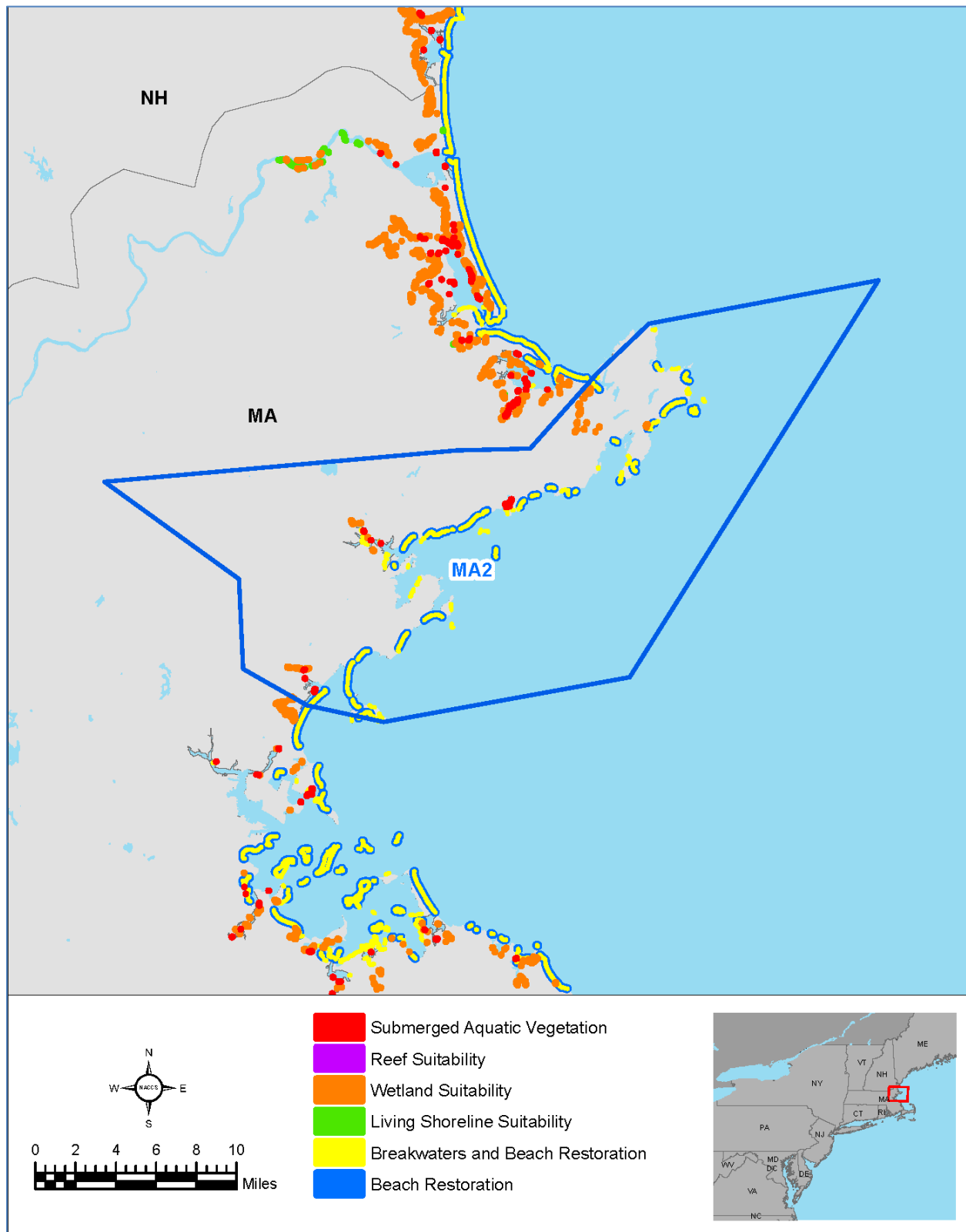


Figure IIa-80: NBF Measures Screening (MA2)

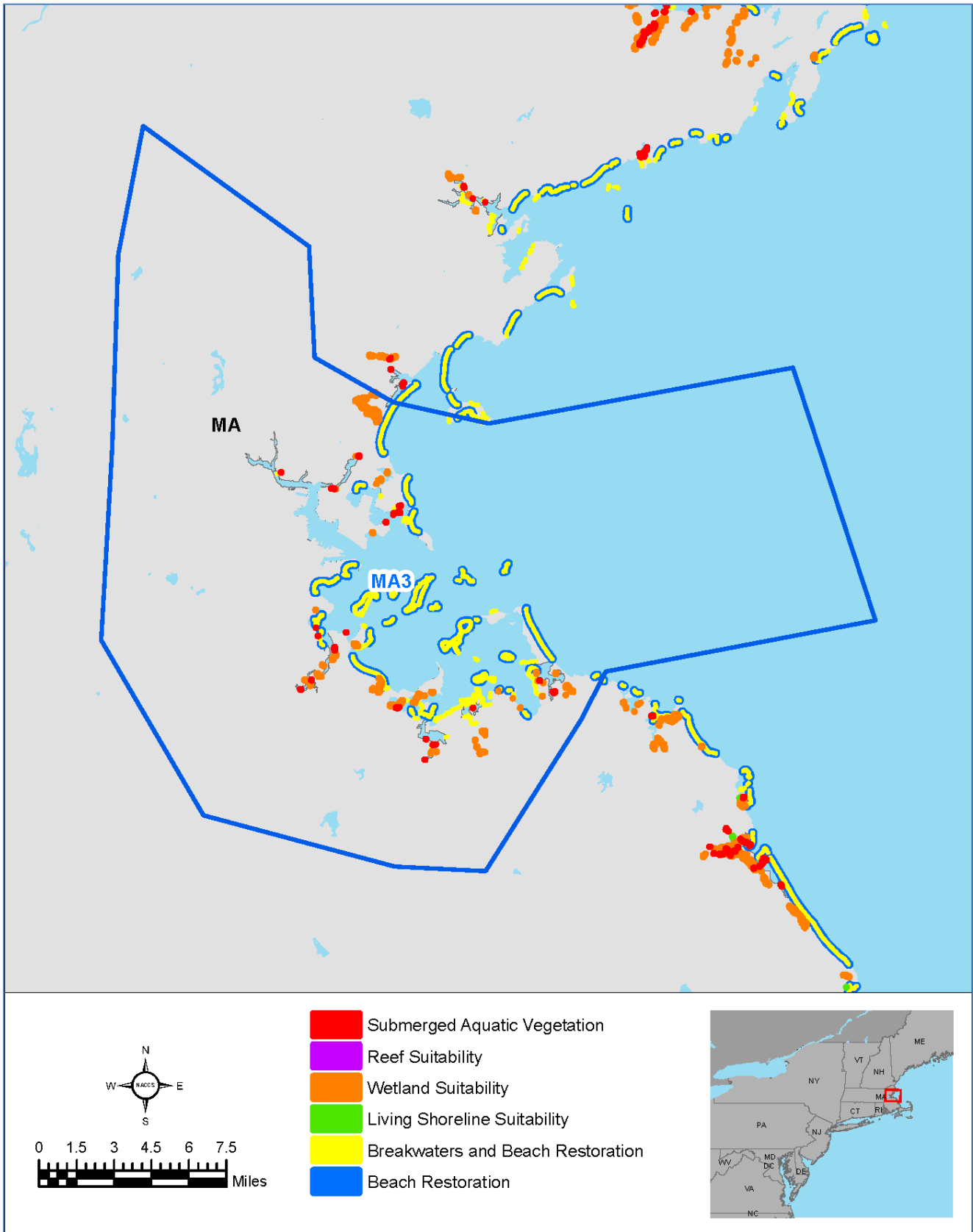


Figure Ila-81: NNBf Measures Screening (MA3)

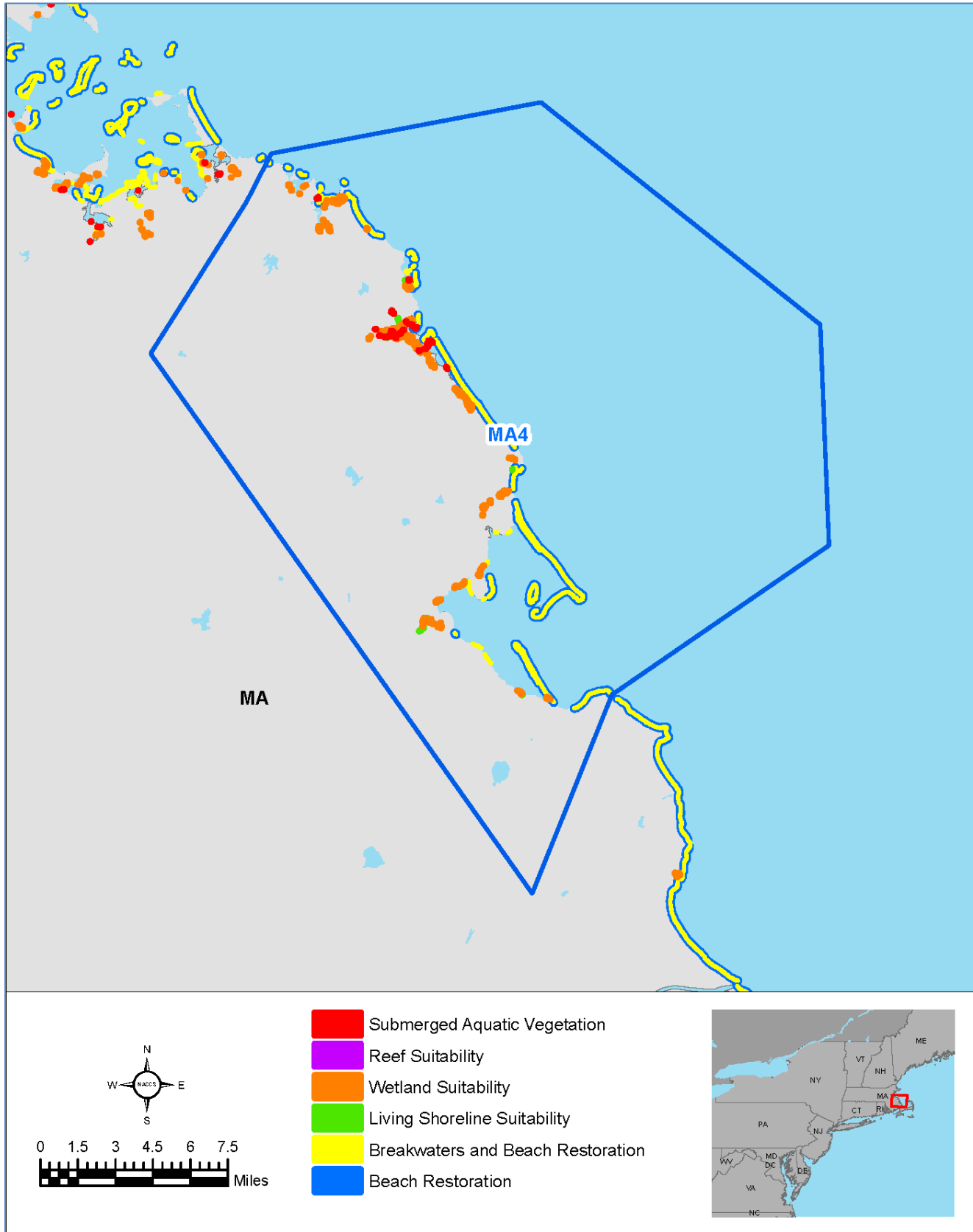


Figure 11a-82: NNB Measures Screening (MA4)

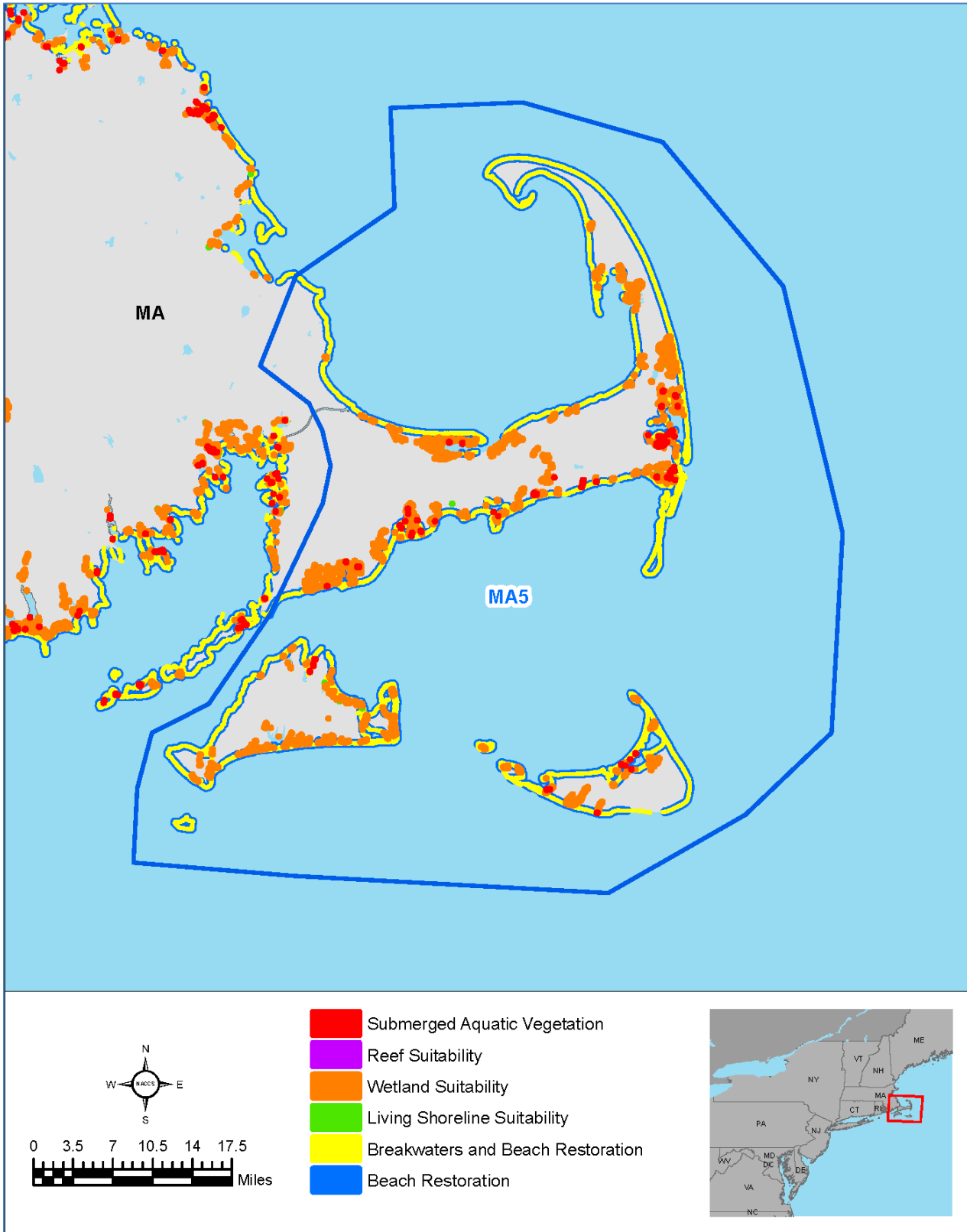


Figure 11a-83: NNB Measures Screening (MA5)

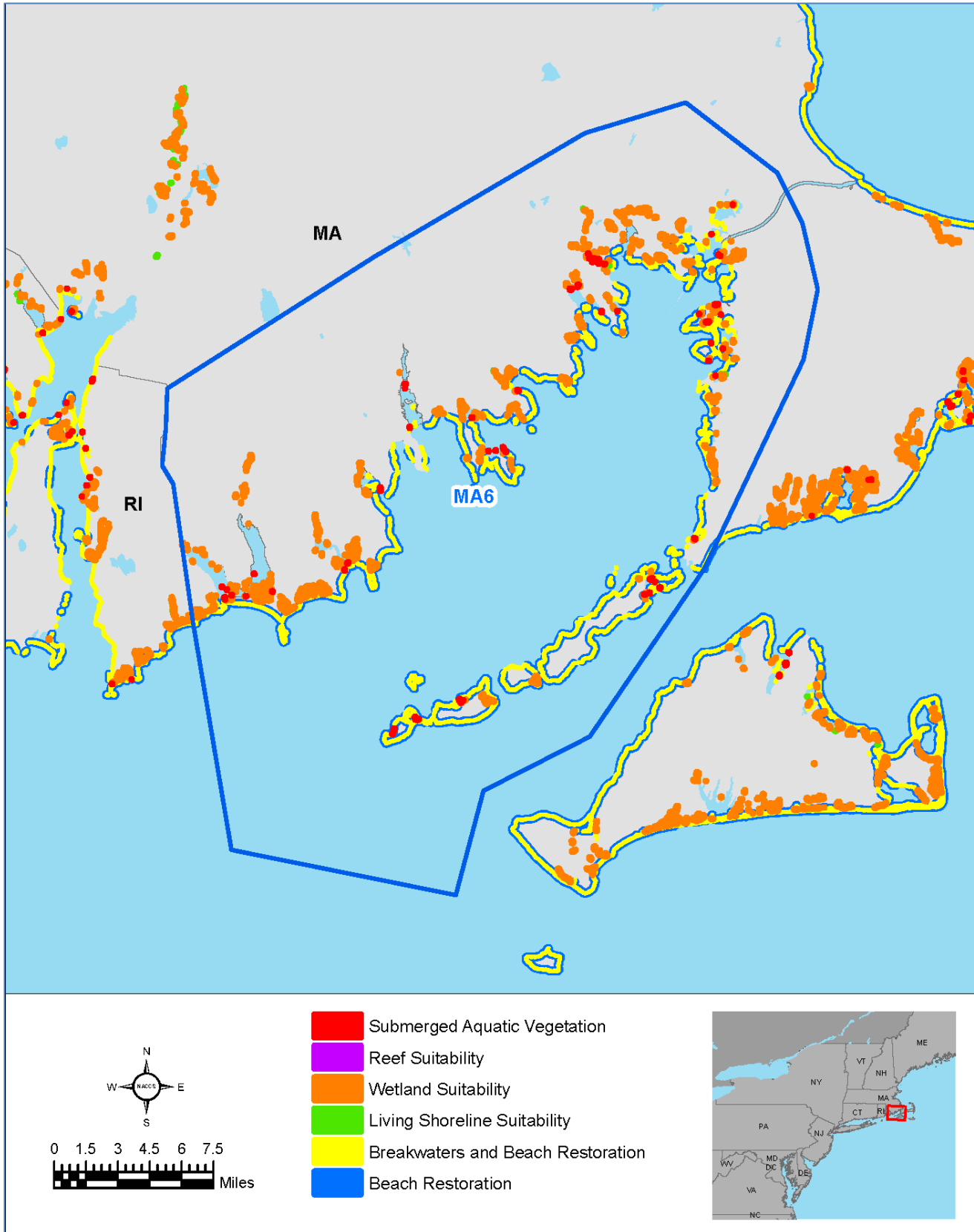


Figure Ila-84: NNB Measures Screening (MA6)



b. State of Rhode Island

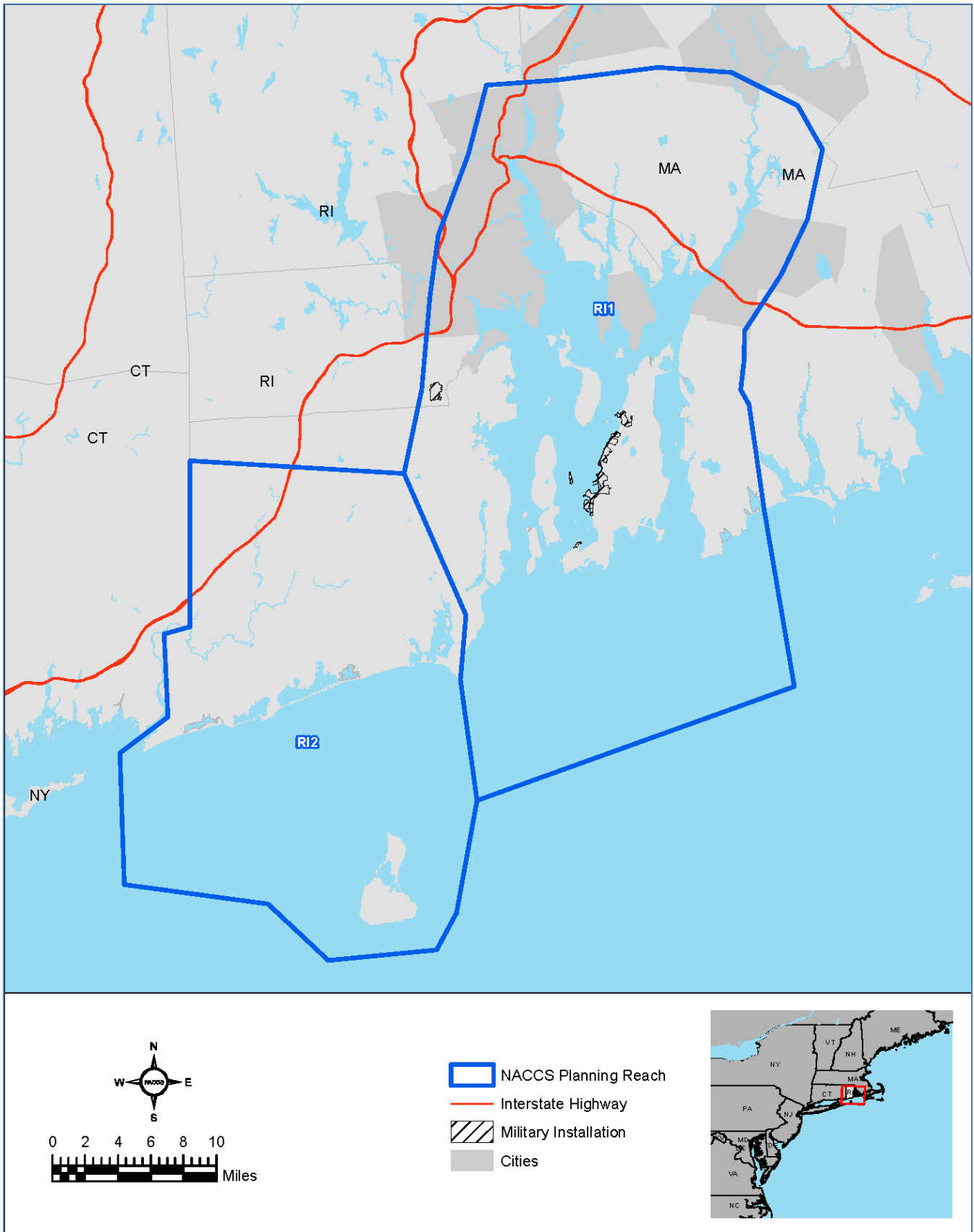


Figure IIb-1: Planning Reaches for the State of Rhode Island

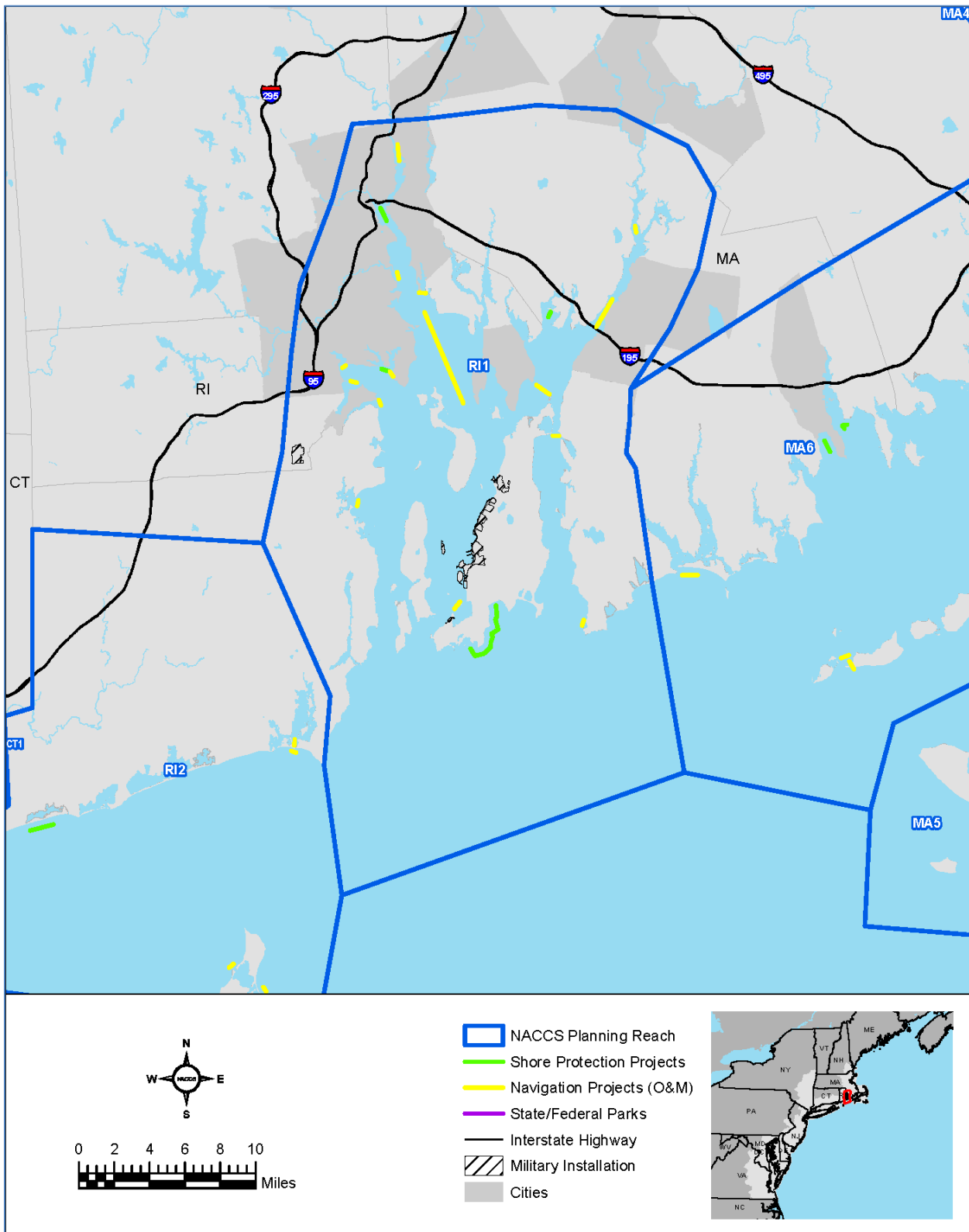


Figure 11b-2: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (RI1)

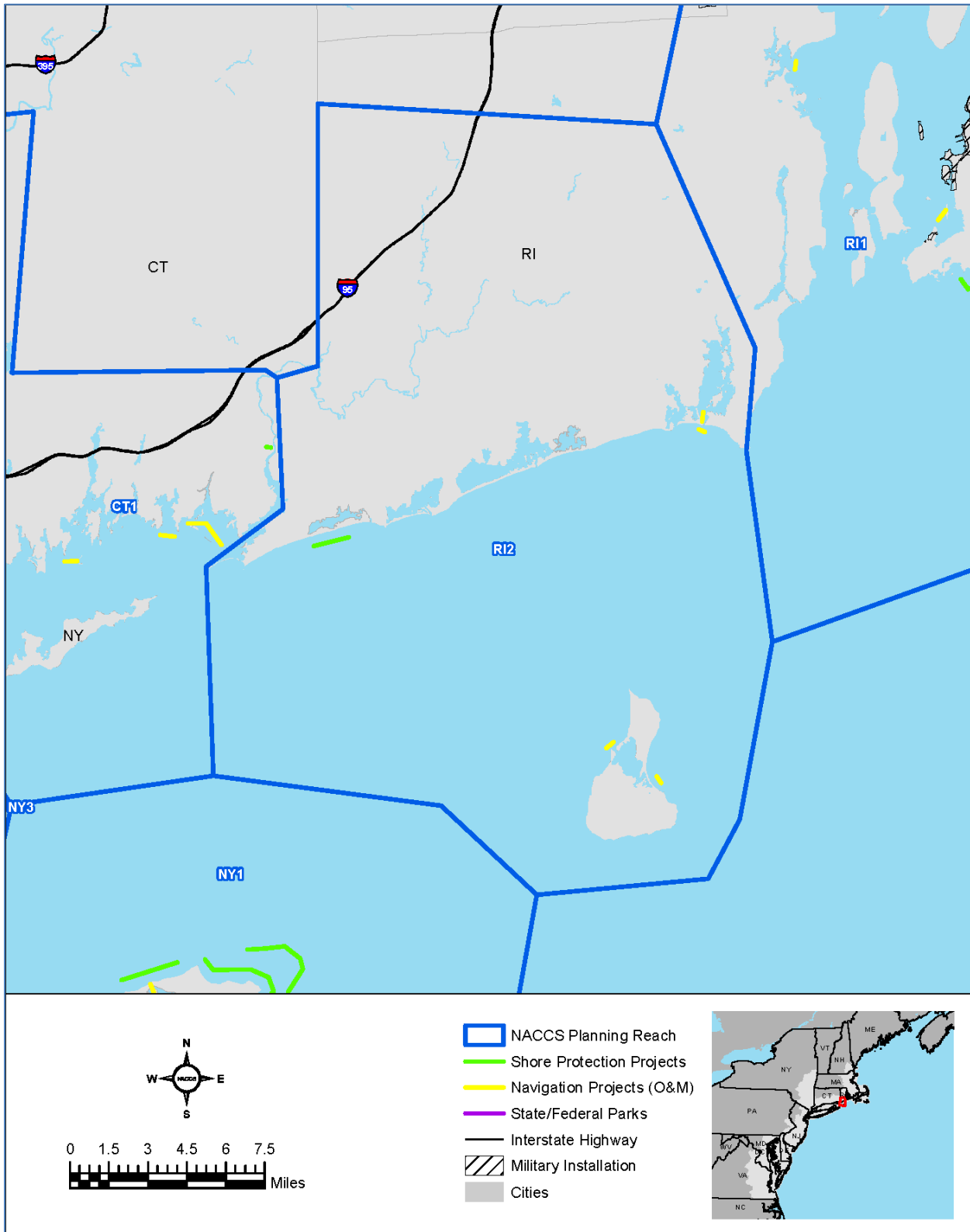


Figure IIb-3: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (RI2)

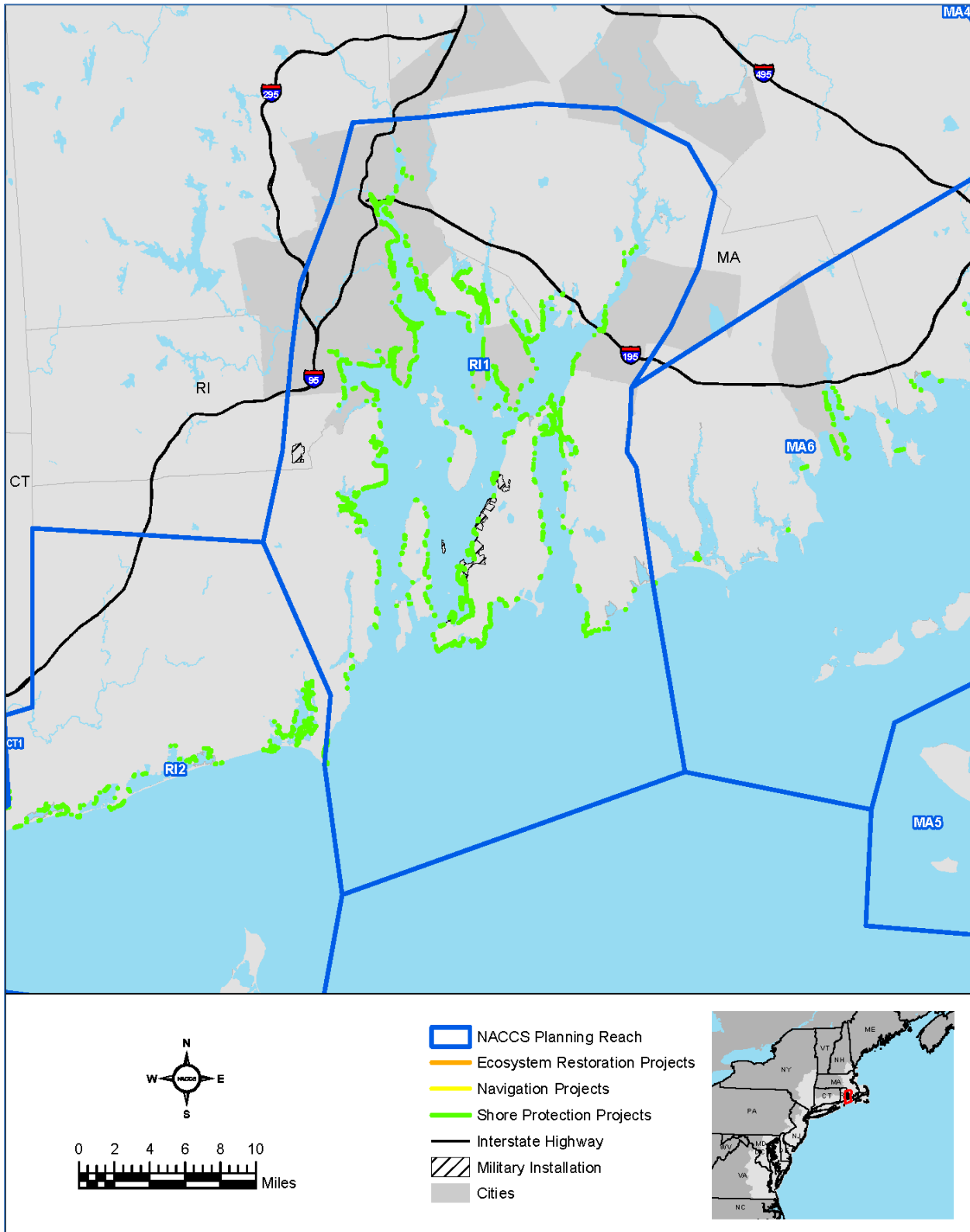


Figure 11b-4: State Projects Included in the Post-Hurricane Sandy Landscape Condition (RI1)

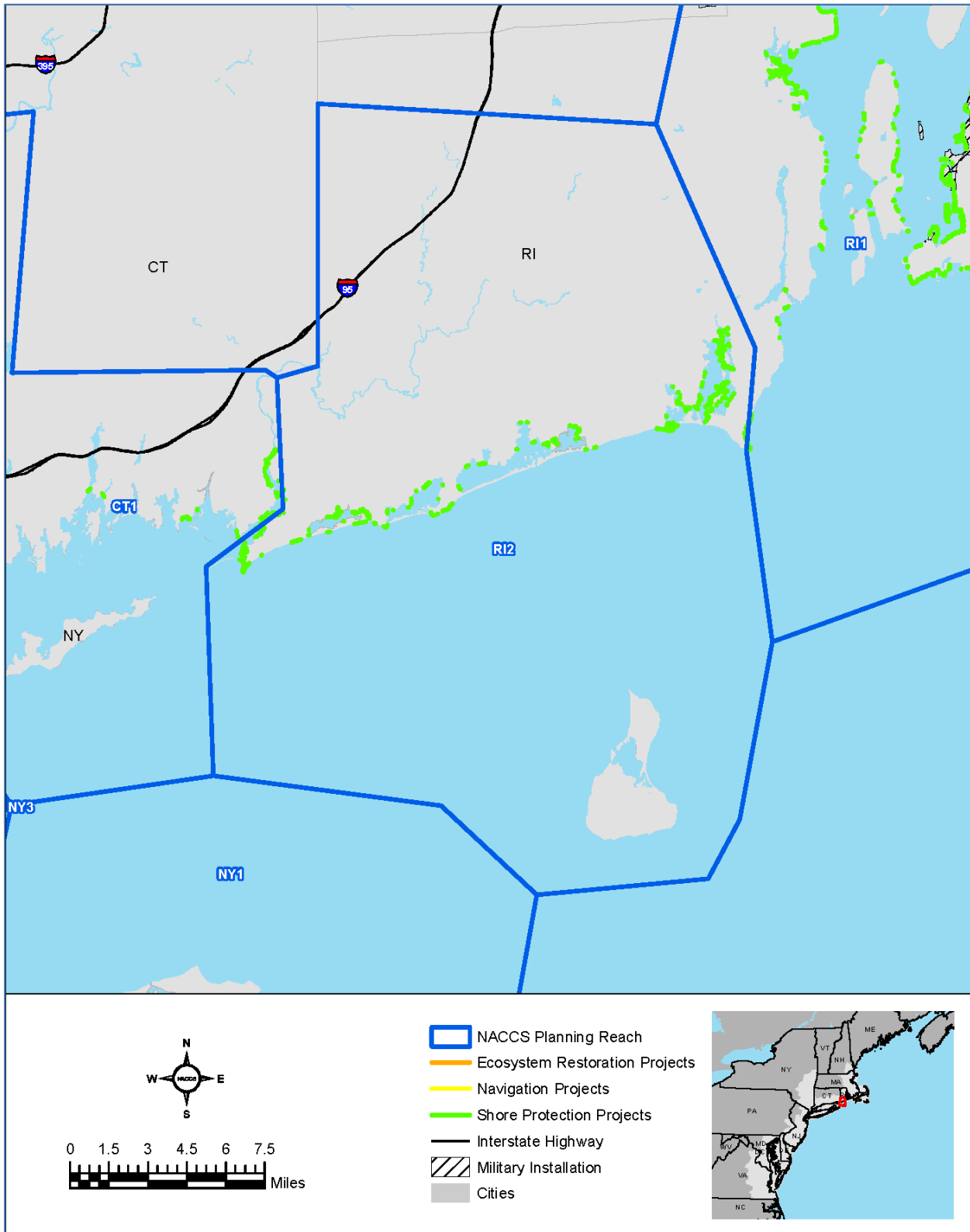


Figure IIb-5: State Projects Included in the Post-Hurricane Sandy Landscape Condition (RI2)

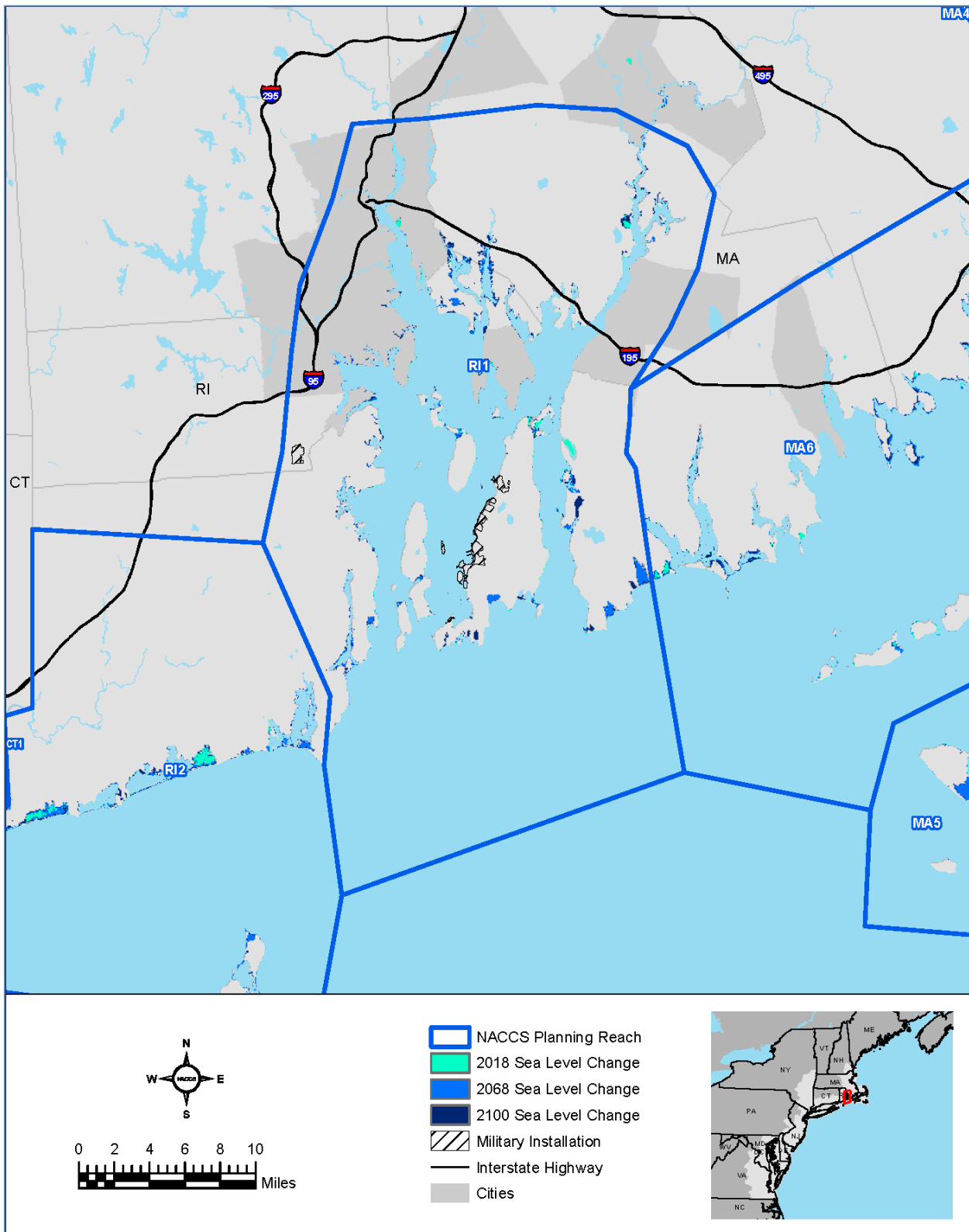


Figure 11b-6: USACE High Scenario Future Mean Sea Level Change Inundation (RI1)

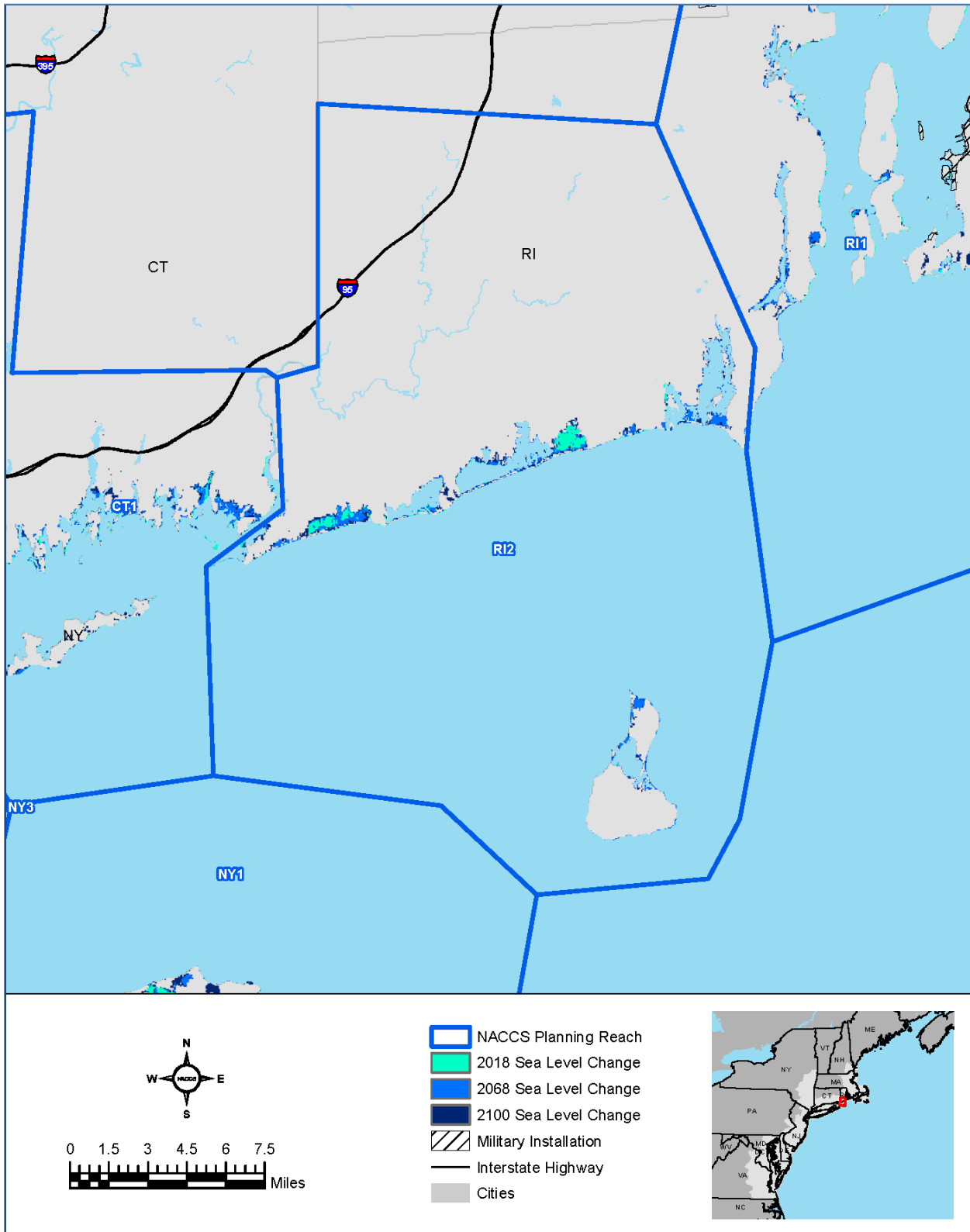


Figure 11b-7: USACE High Scenario Future Mean Sea Level Change Inundation (RI2)

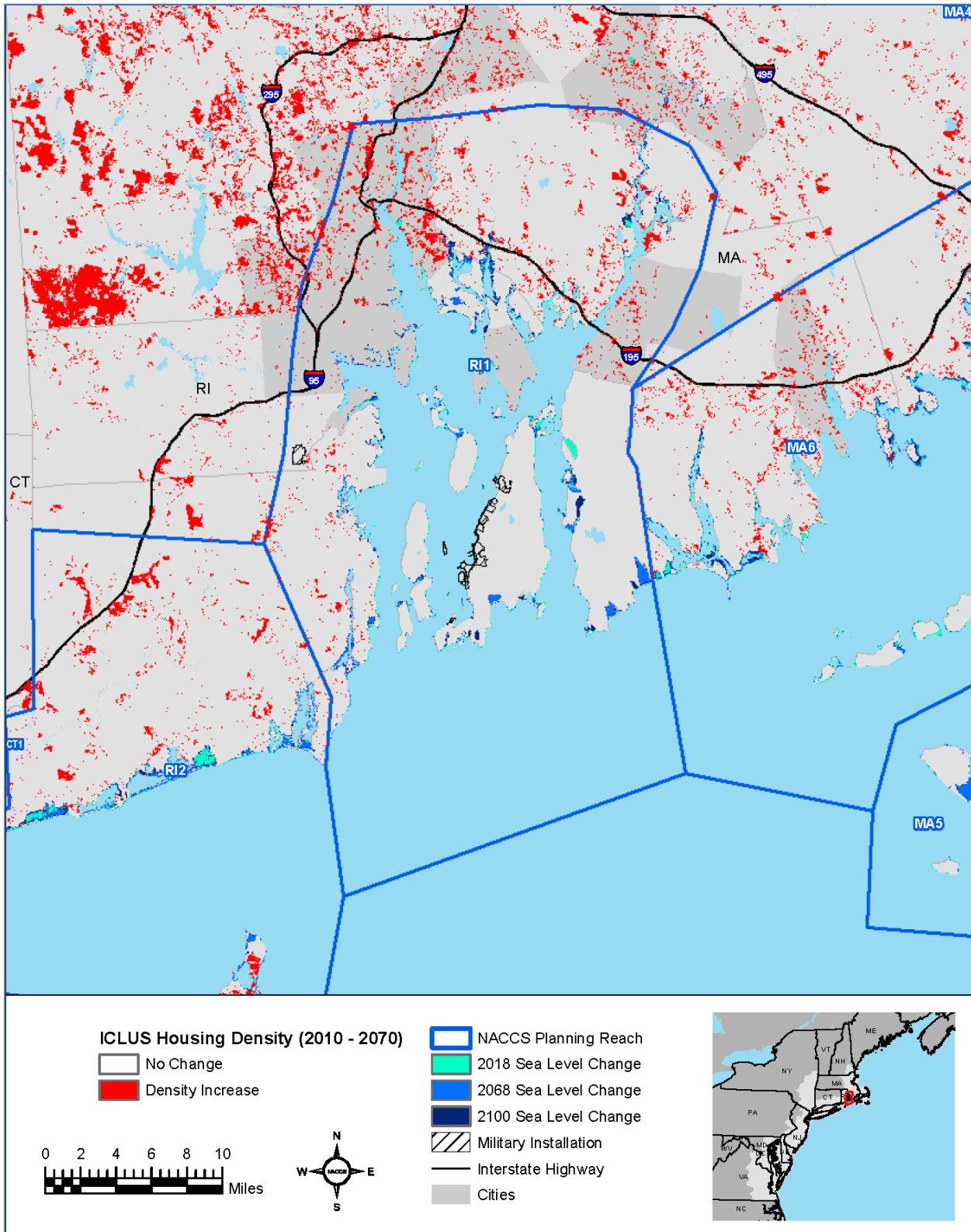


Figure 11b-8: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (RI1)

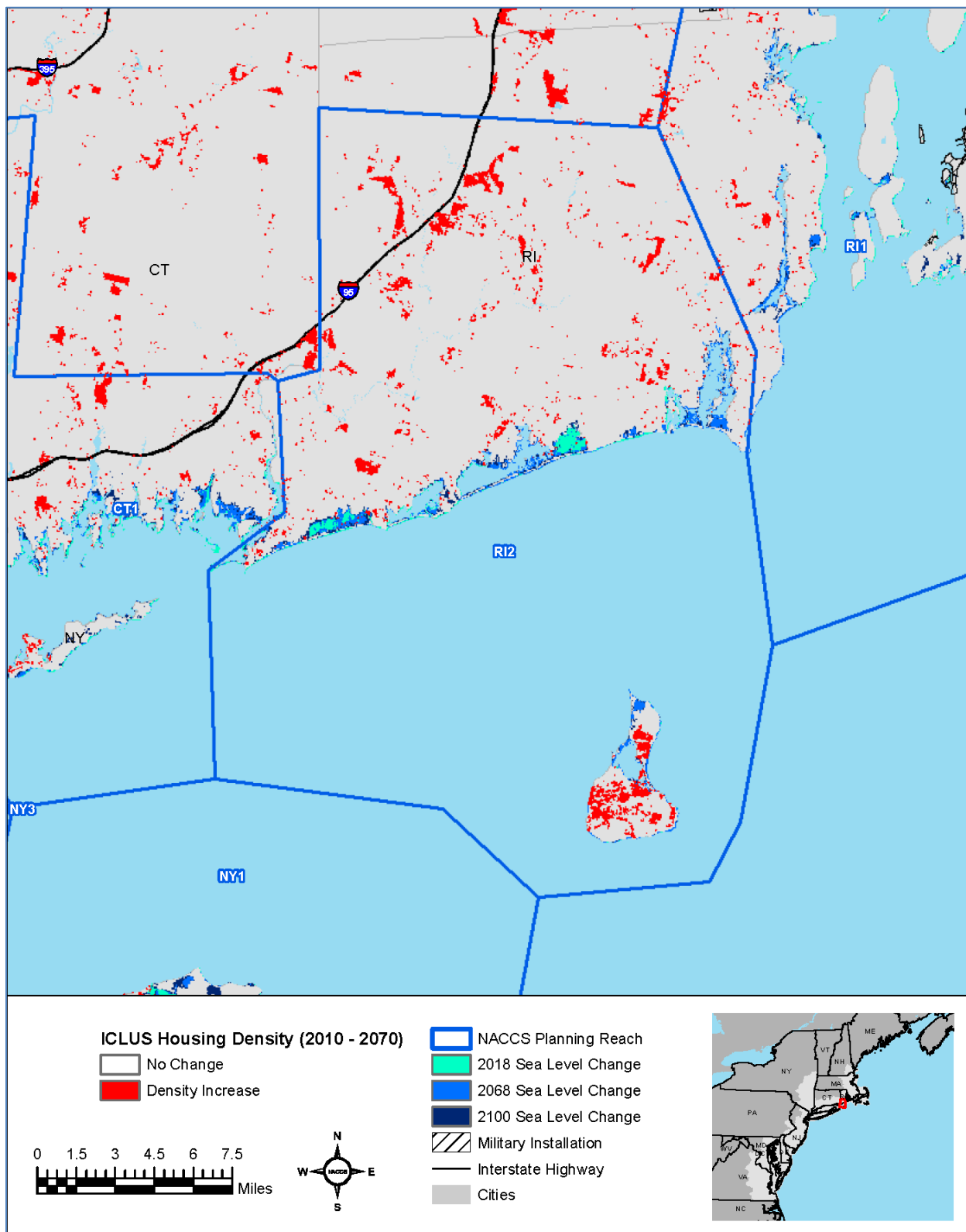


Figure 11b-9: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (RI2)

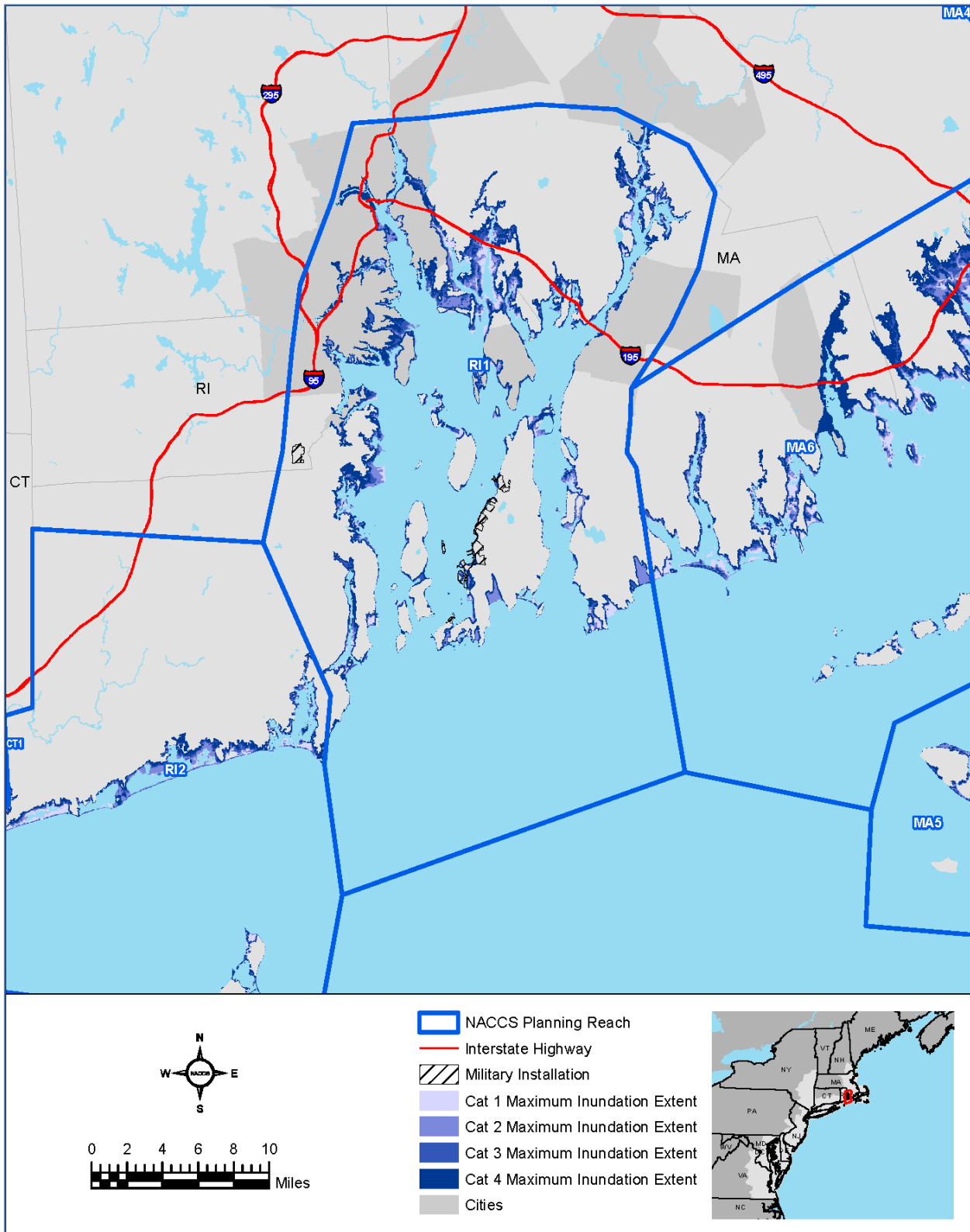


Figure IIb-10: Impacted Area Category 1-4 Water Levels (RI1)

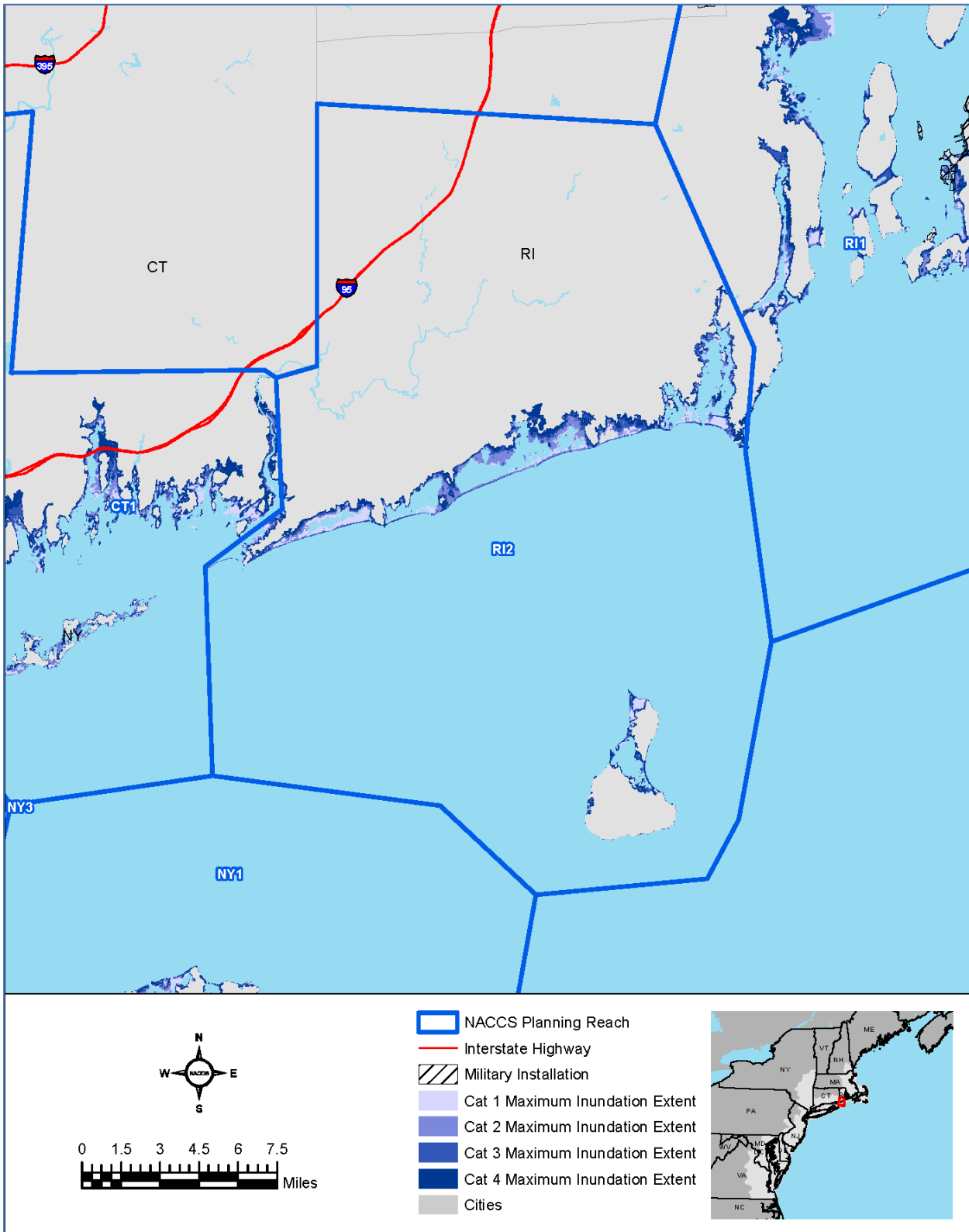


Figure IIb-11: Impacted Area Category 1-4 Water Levels (RI2)

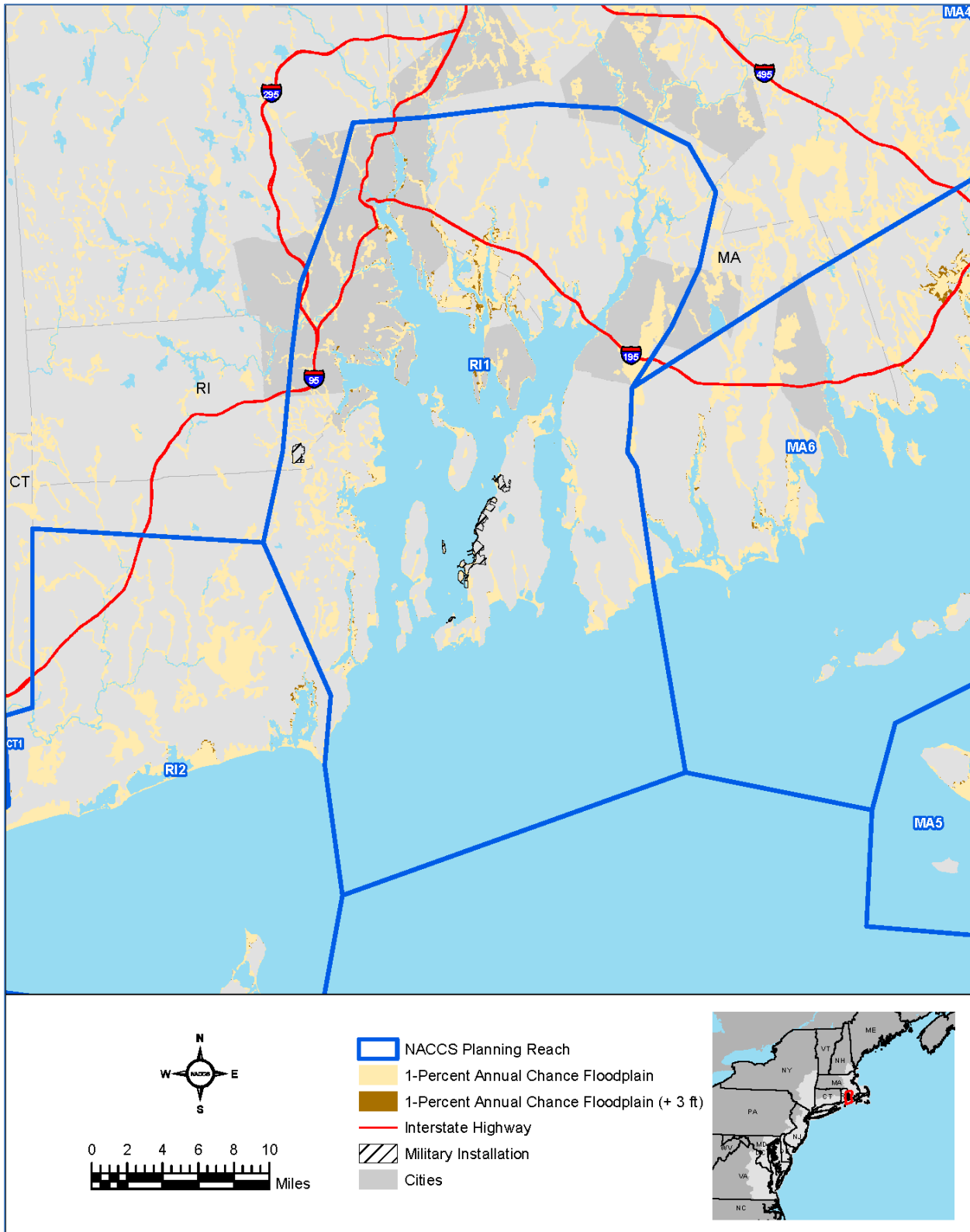


Figure IIb-12: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (RI1)

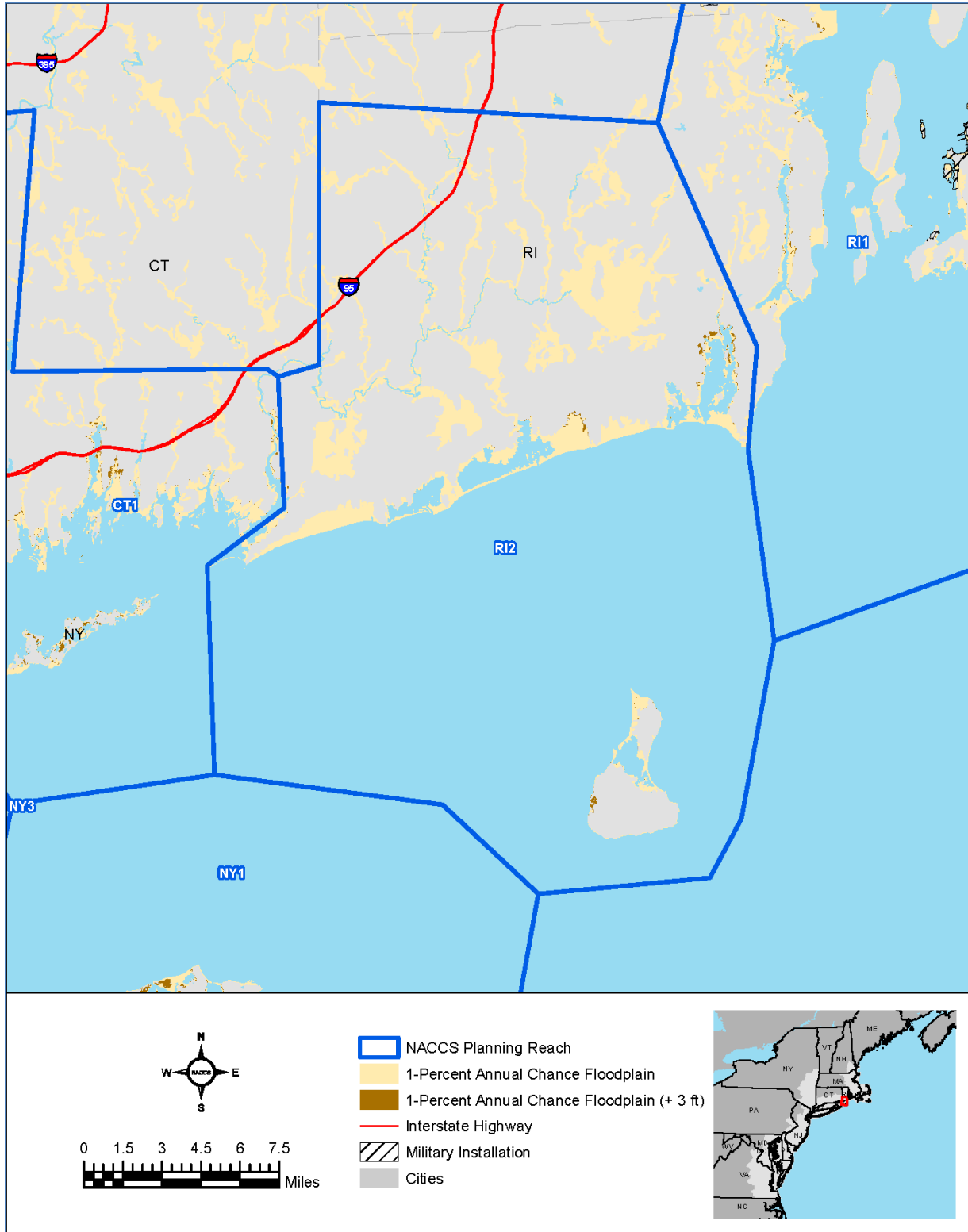


Figure IIb-13: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (R12)

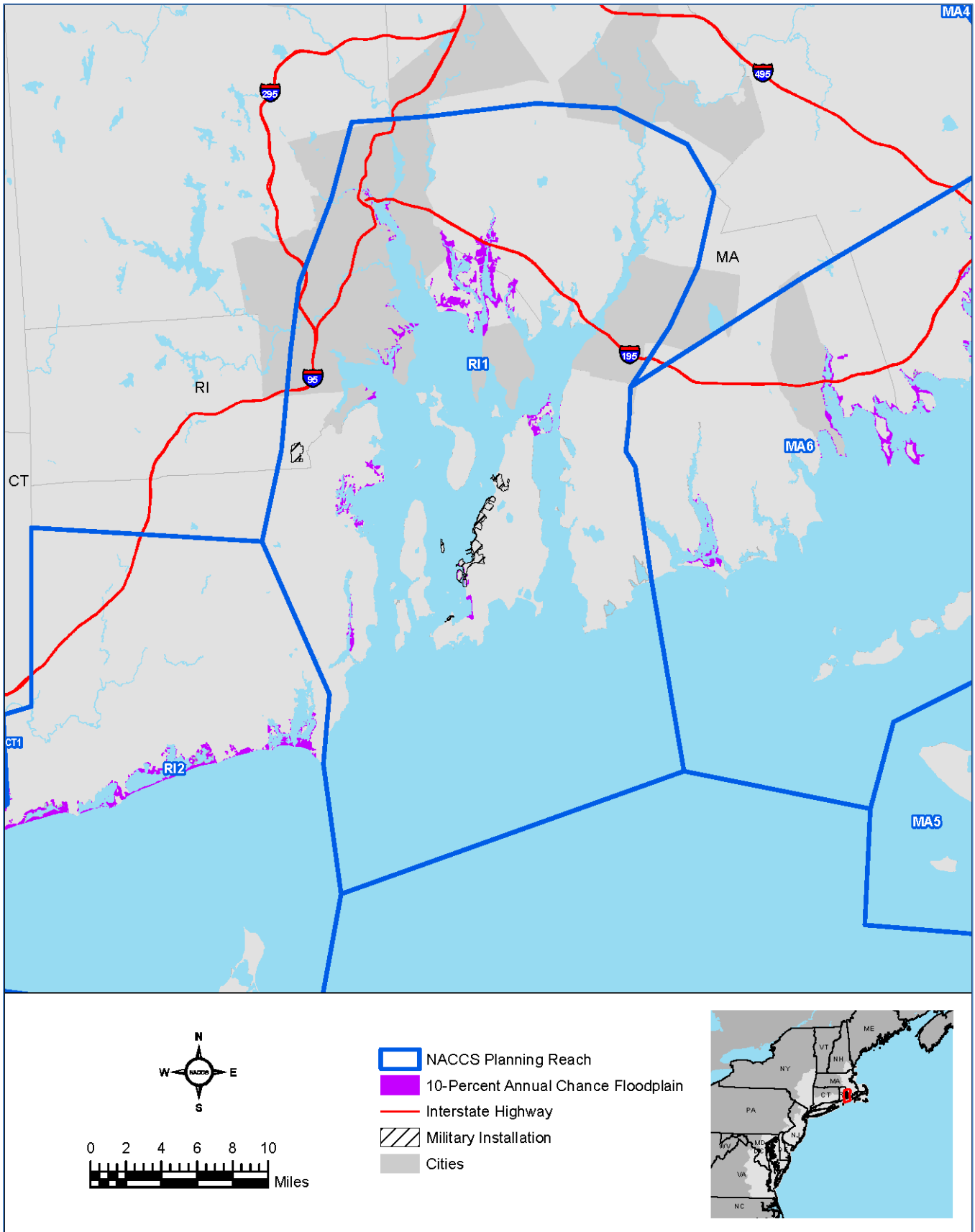


Figure IIb-14: Impacted Area 10-Percent Flood Water Surface (RI1)

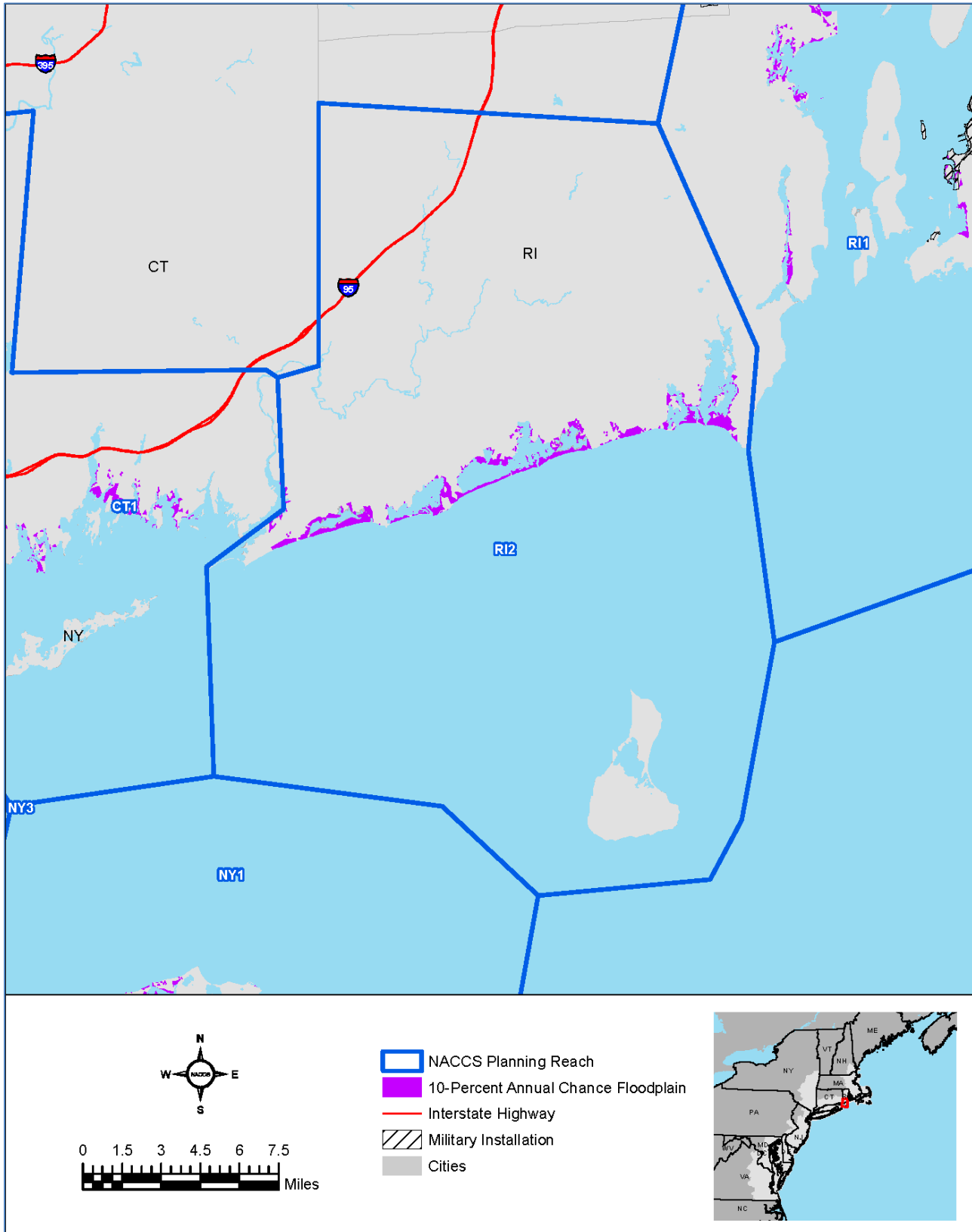


Figure IIb-15: Impacted Area 10-Percent Flood Water Surface (R12)

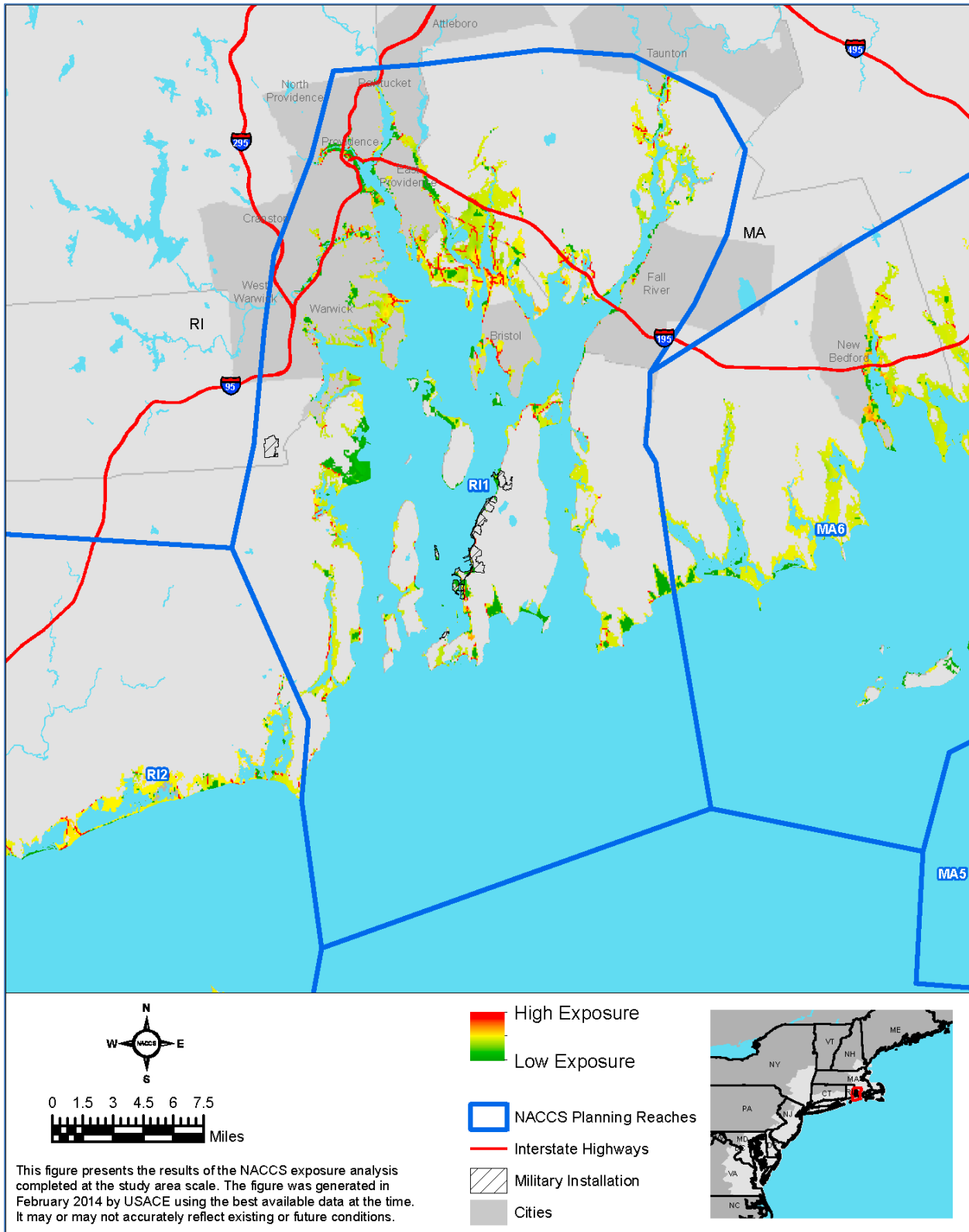


Figure IIb-16: Population and Infrastructure Exposure Index (RI1)

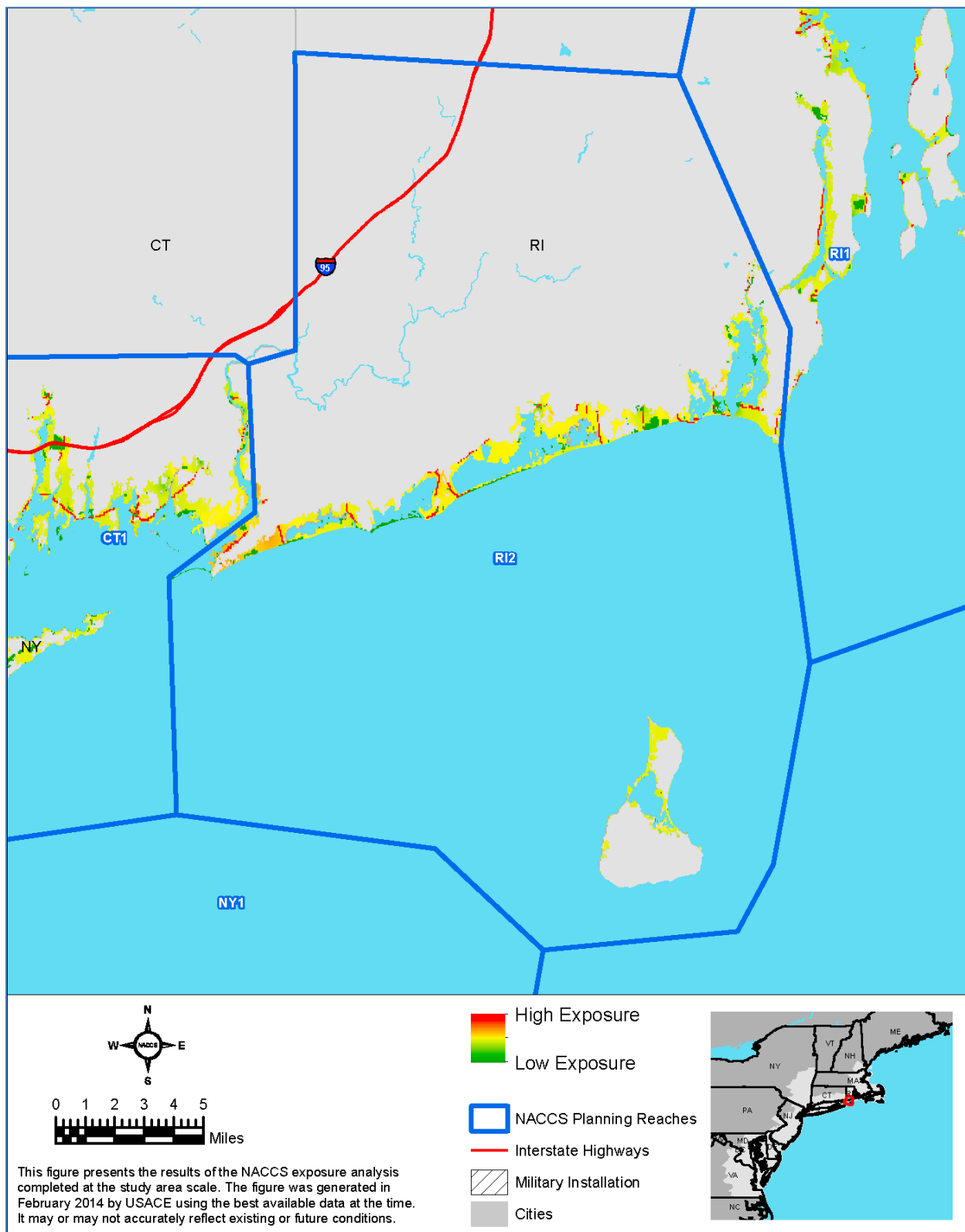


Figure IIb-17: Population and Infrastructure Exposure Index (RI2)



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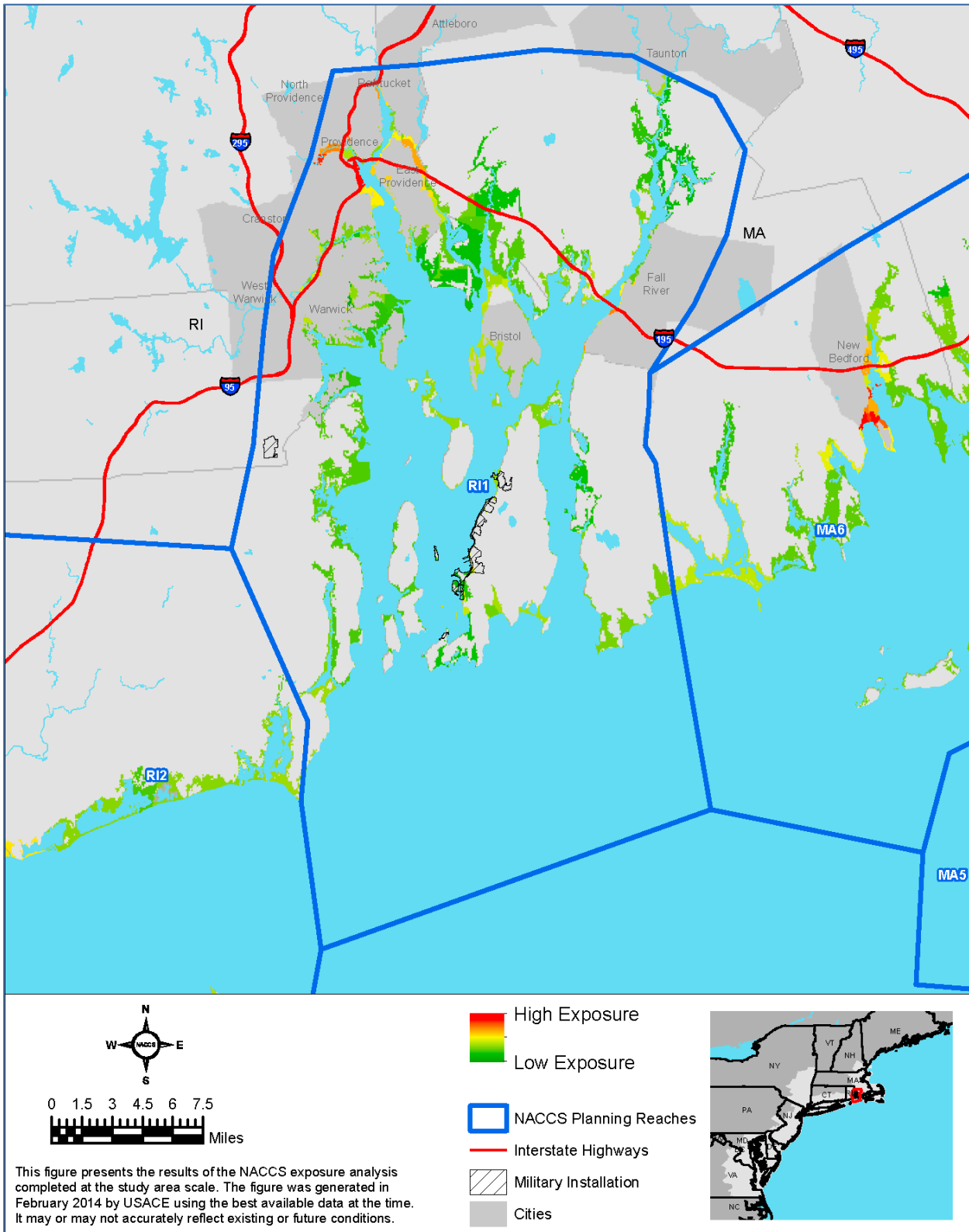


Figure IIb-18: Social Vulnerability Characterization Exposure Index (RI1)

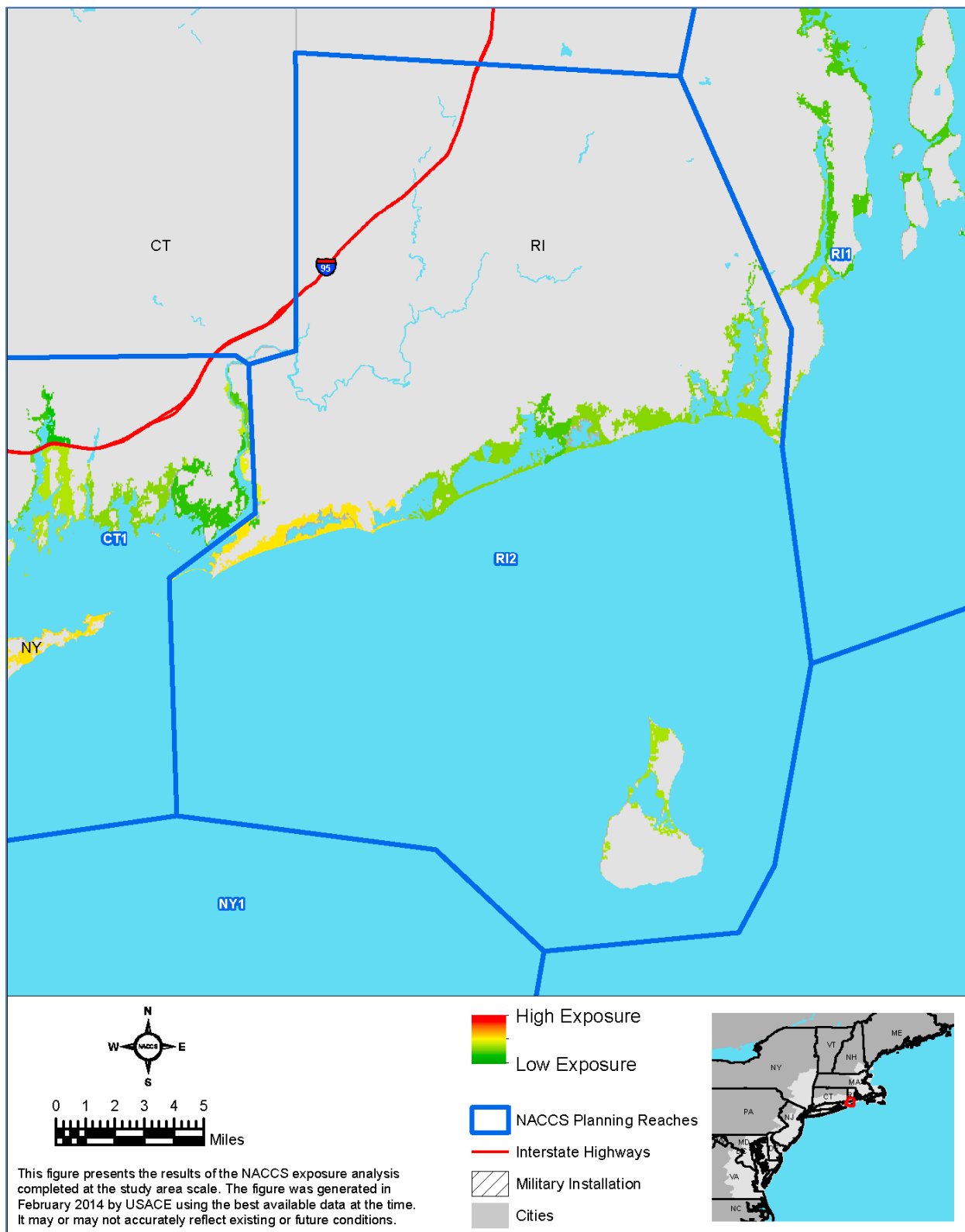


Figure IIb-19: Social Vulnerability Characterization Exposure Index (RI2)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

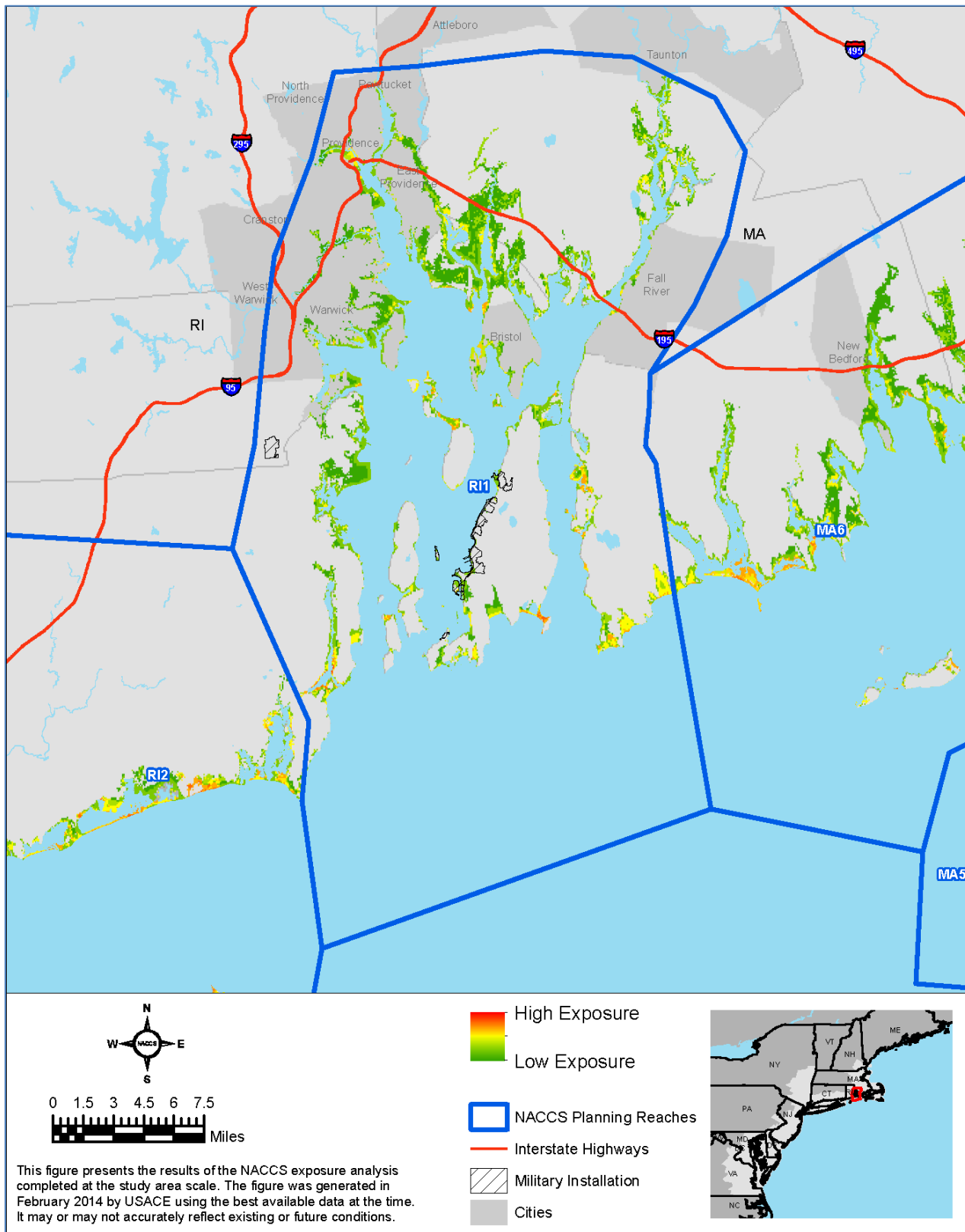


Figure 11b-20: Environmental and Cultural Resources Exposure Index (RI1)

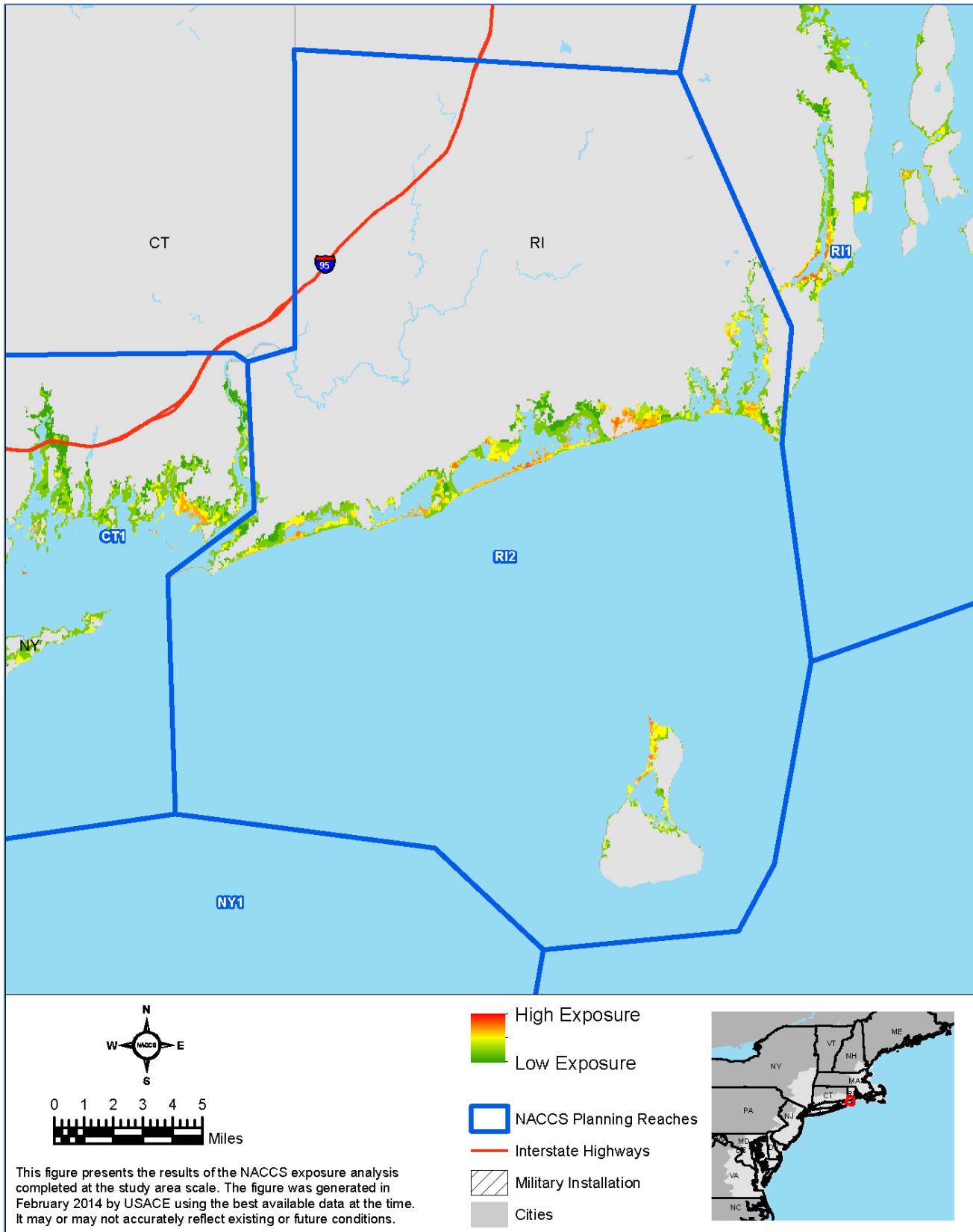


Figure IIb-21: Environmental and Cultural Resources Exposure Index (RI2)

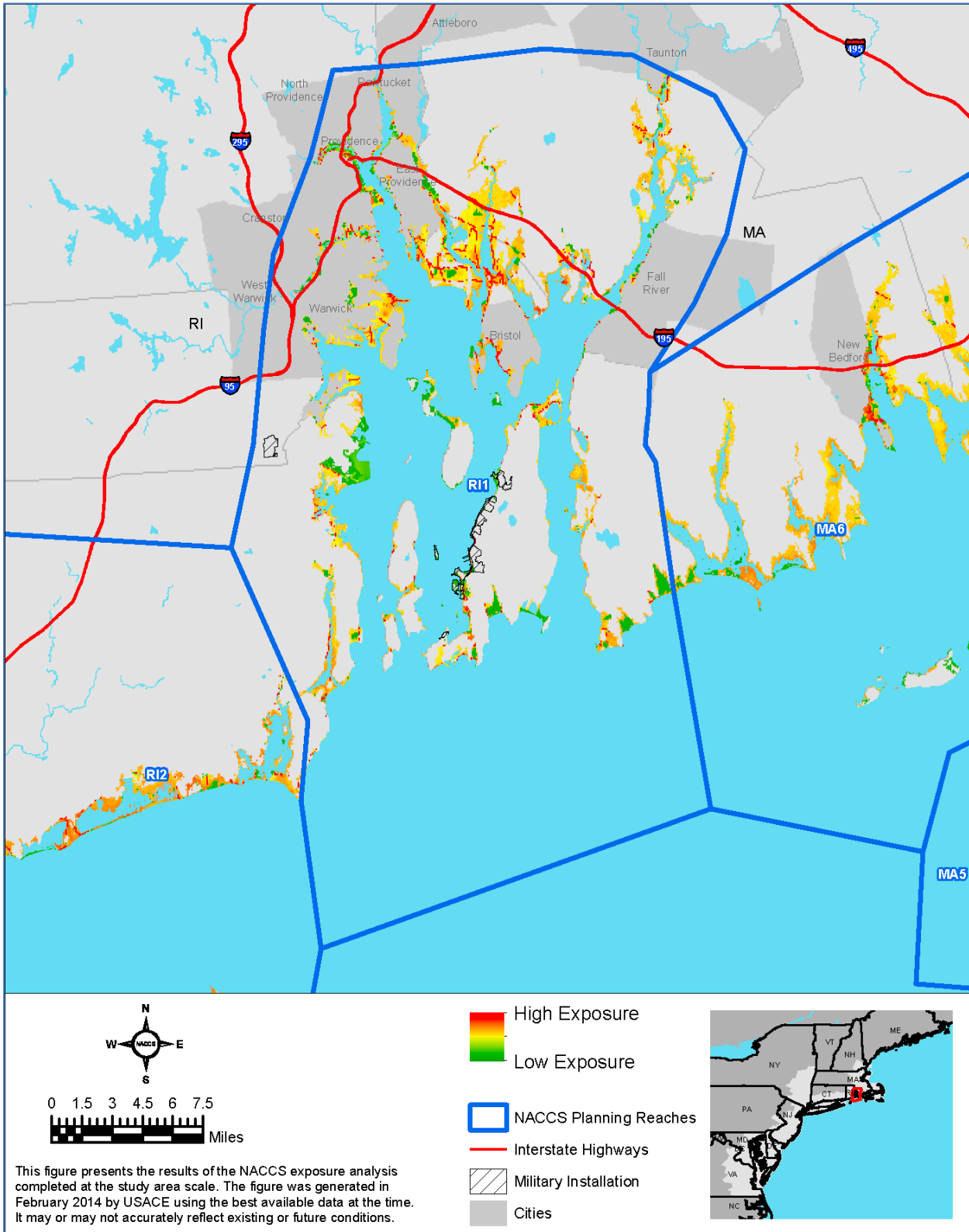


Figure 11b-22: Composite Exposure Index (RI1)

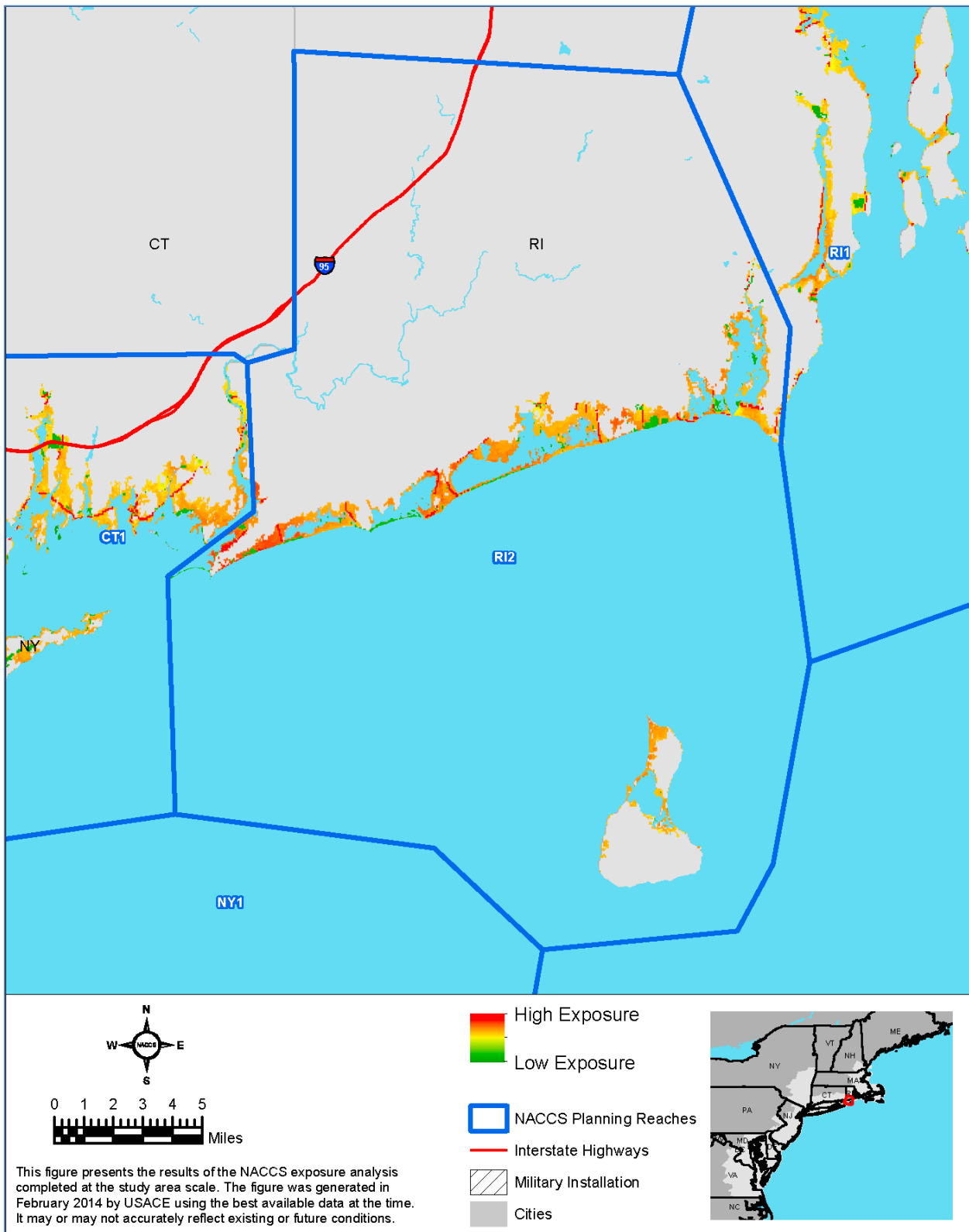


Figure IIb-23: Composite Exposure Index (RI2)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

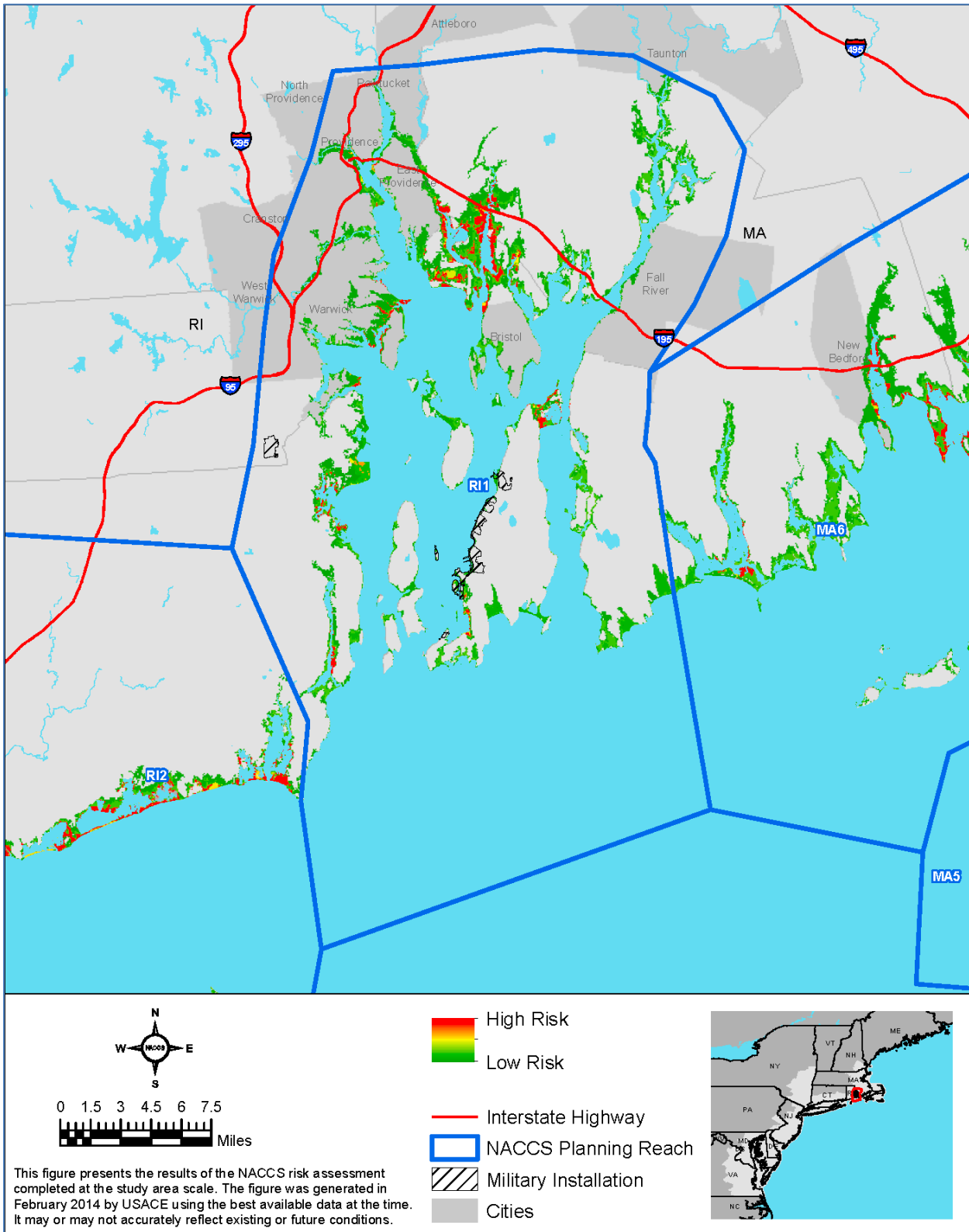
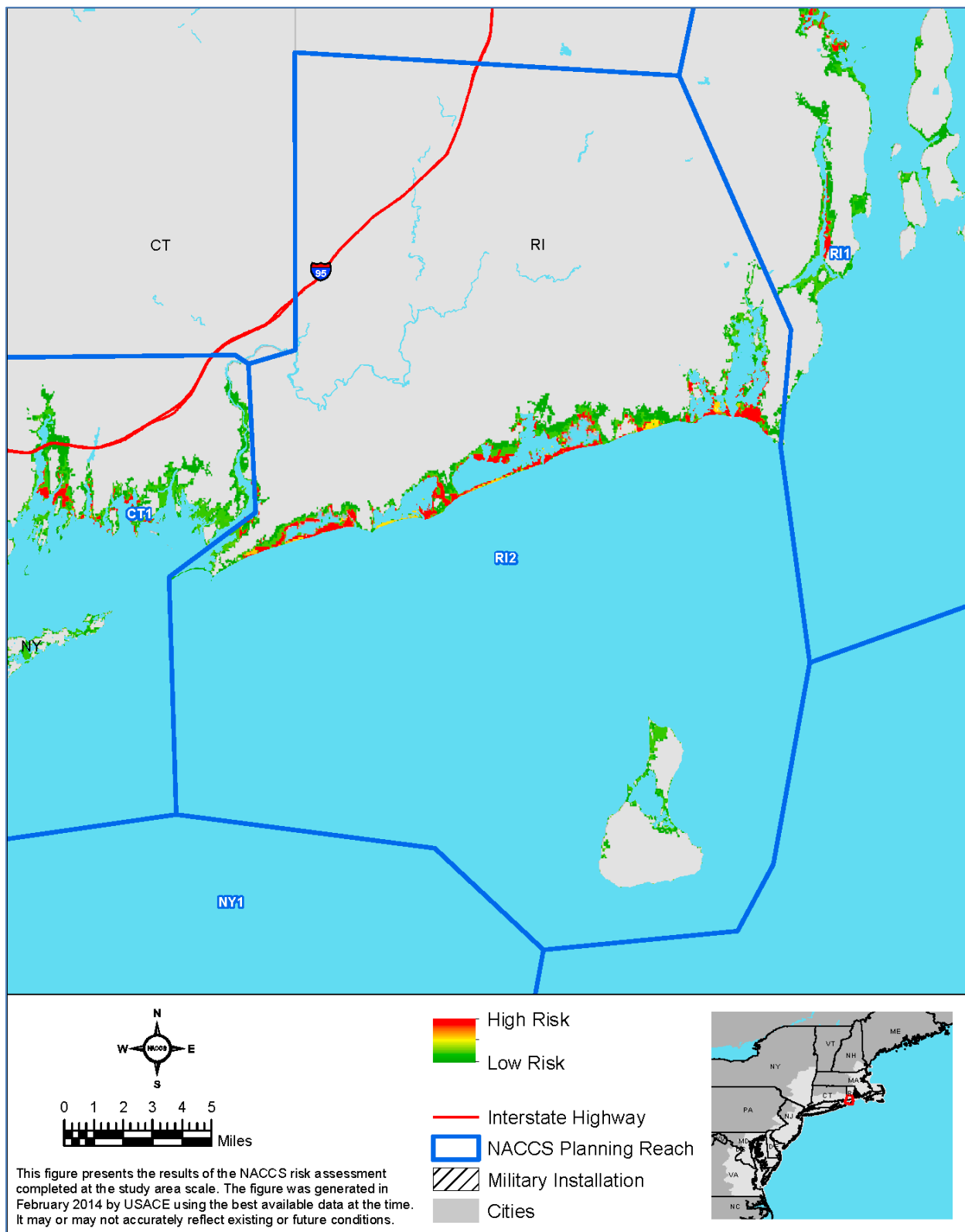


Figure 11b-24: Risk Assessment (RI1)



This figure presents the results of the NACCS risk assessment completed at the study area scale. The figure was generated in February 2014 by USACE using the best available data at the time. It may or may not accurately reflect existing or future conditions.

Figure IIb-25: Risk Assessment (RI2)

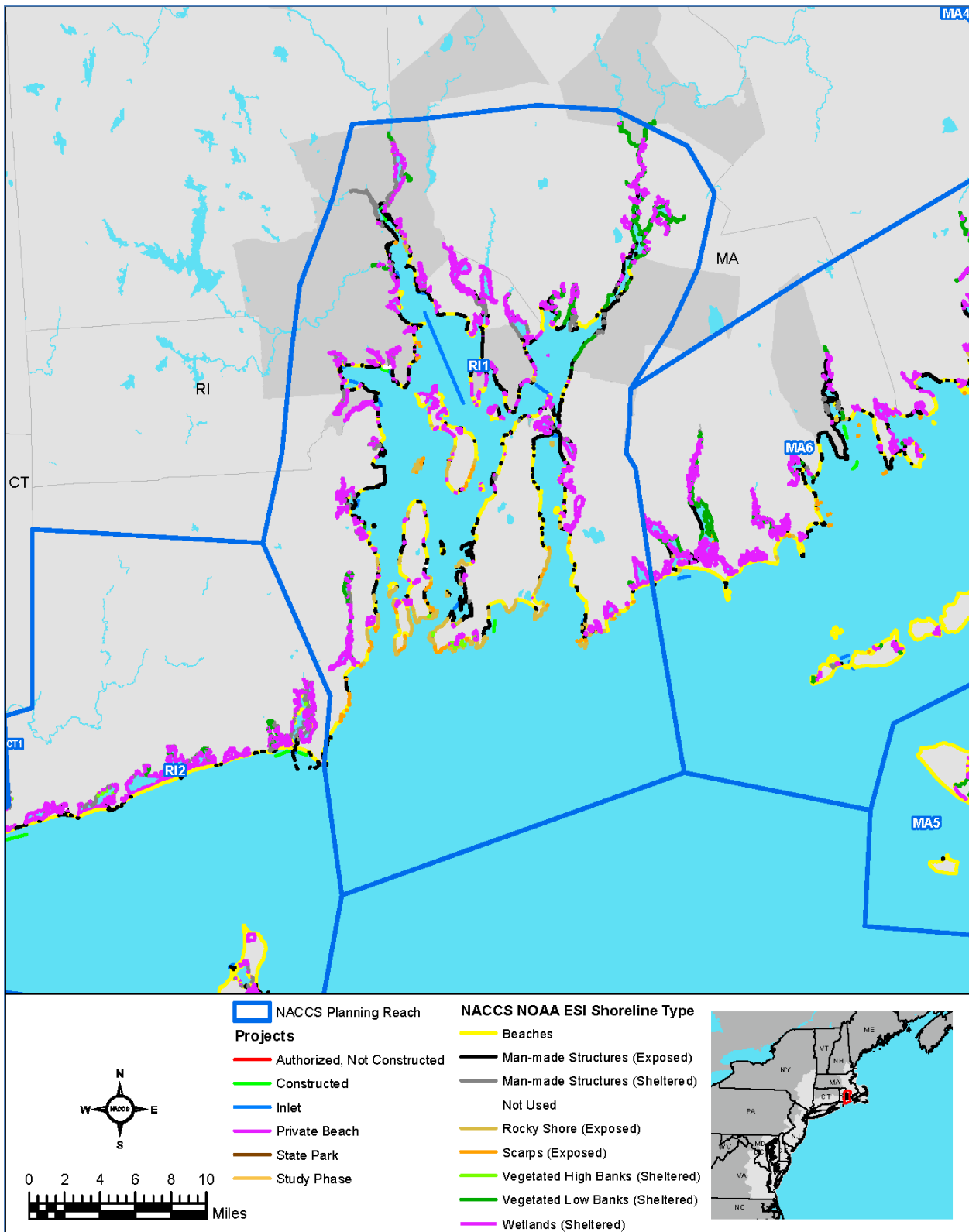


Figure 11b-26: Shoreline Types (RI1)

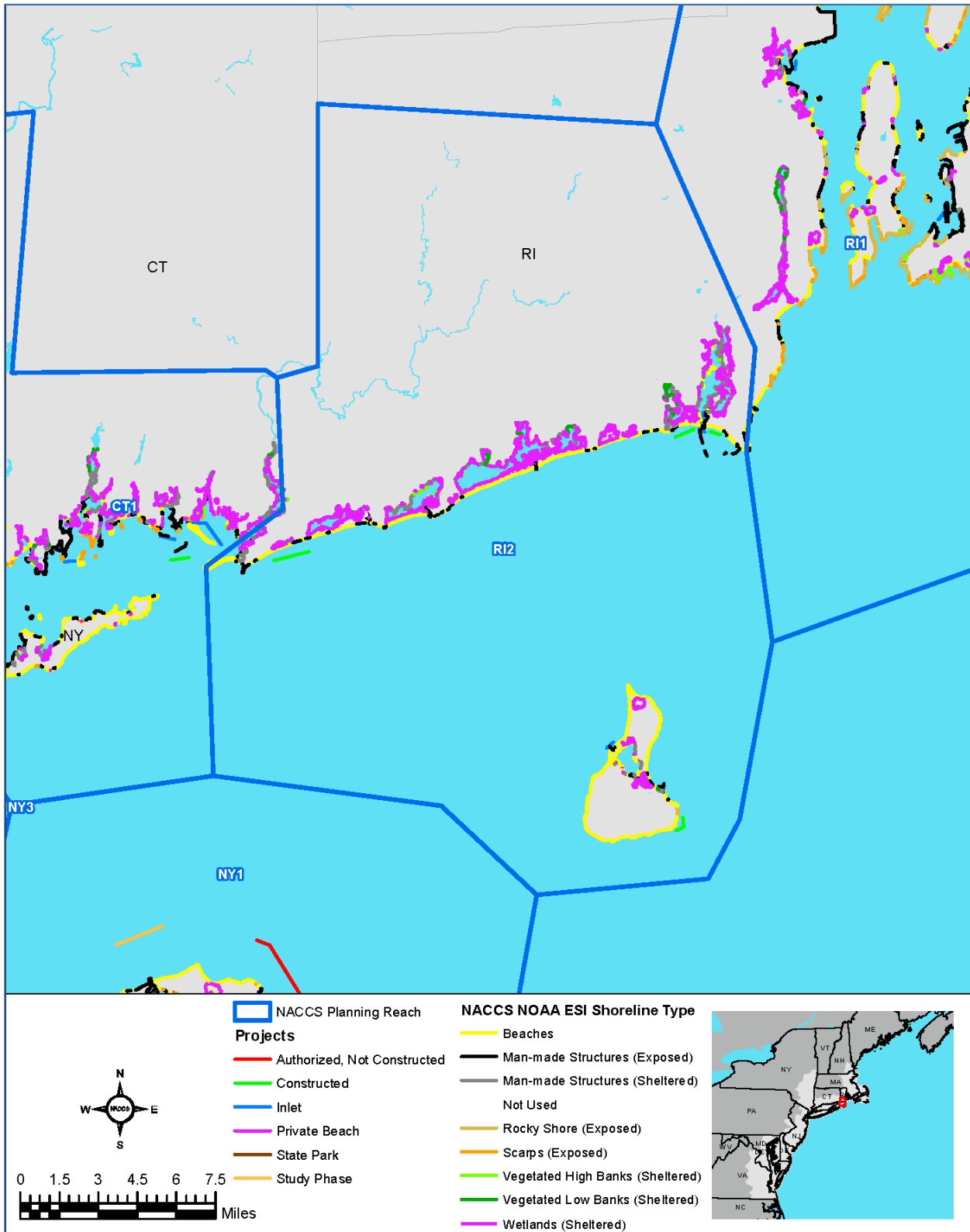


Figure 11b-27: Shoreline Types (RI2)

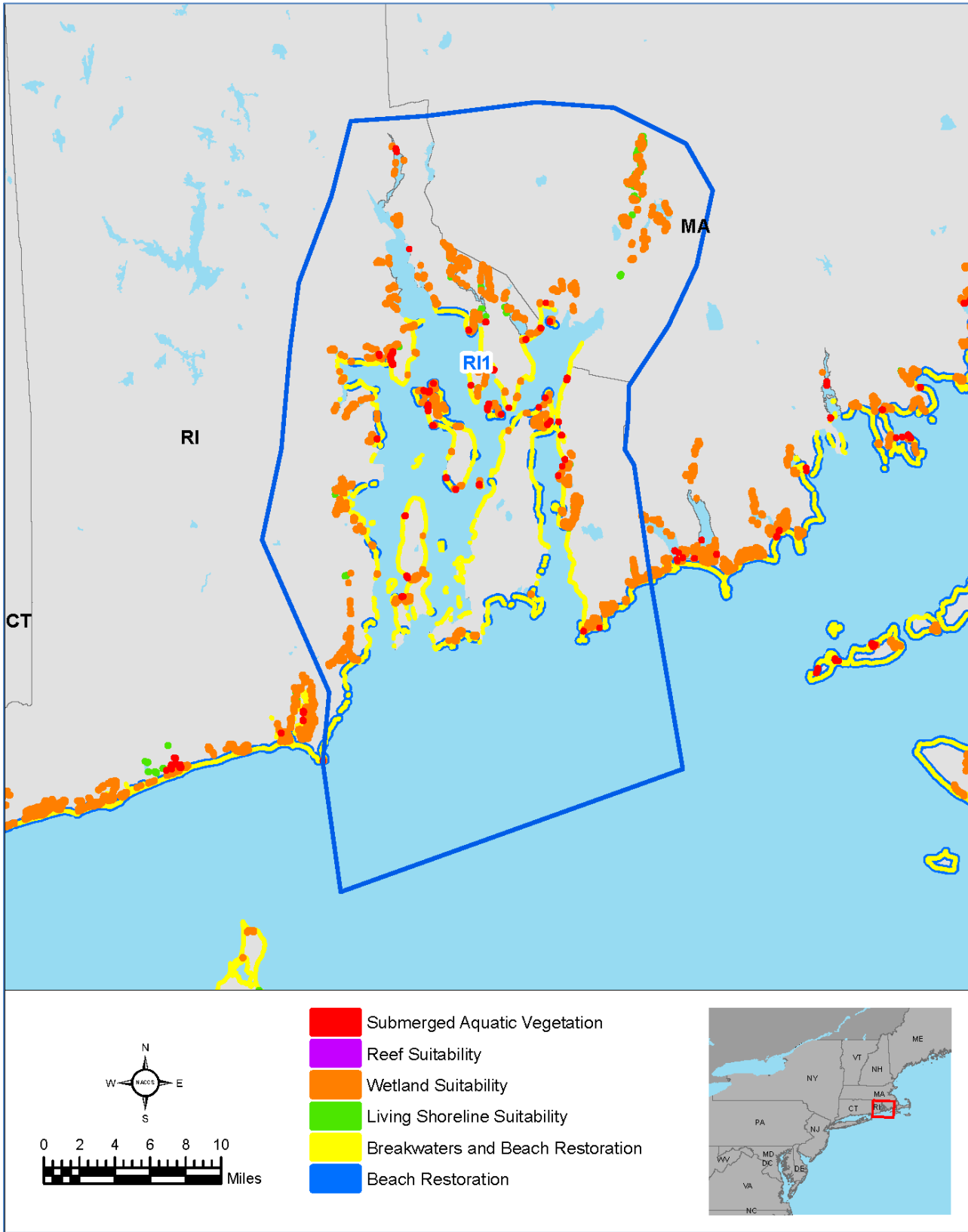


Figure IIb-28: NNBF Measures Screening (RI1)

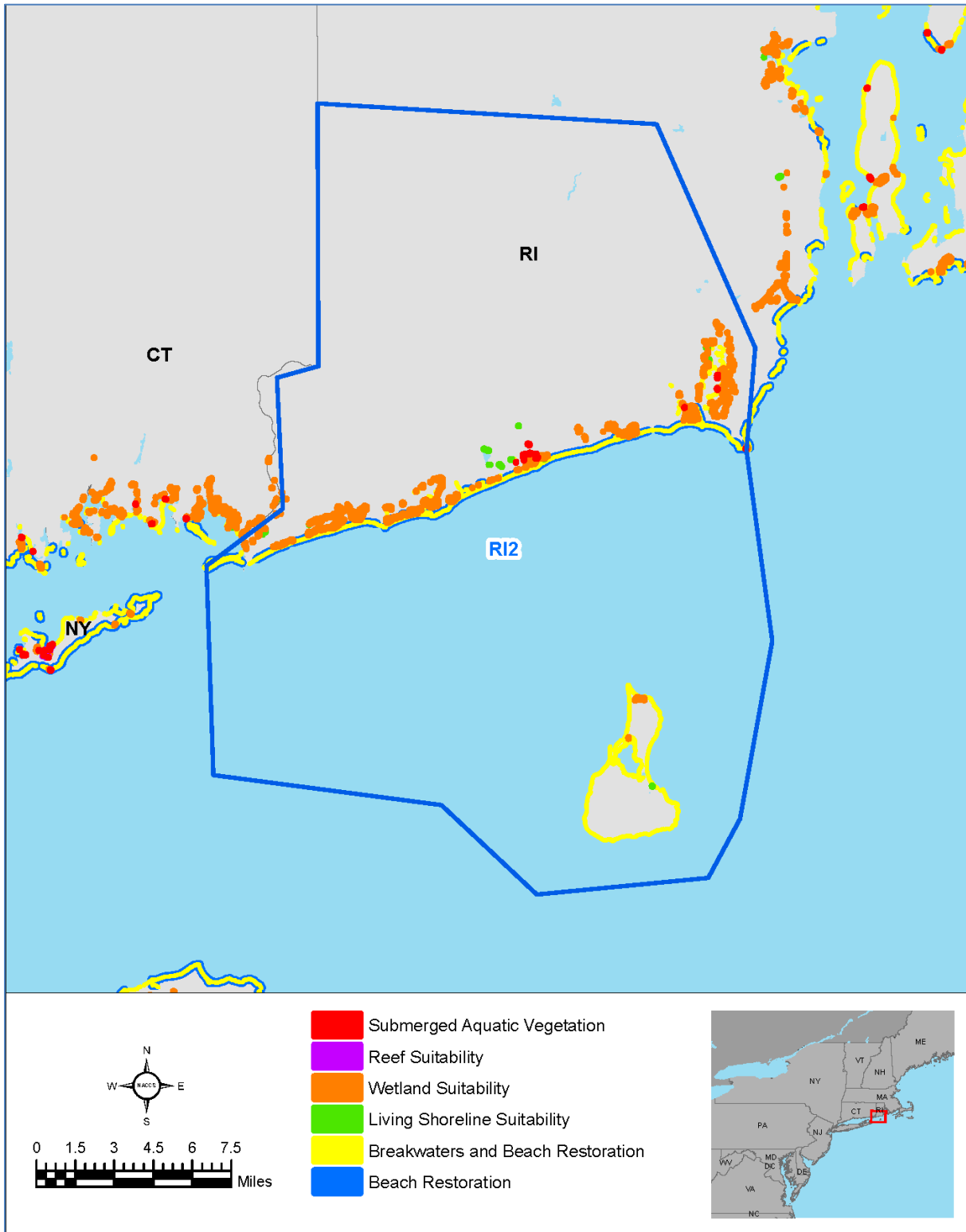


Figure IIb-29: NNBf Measures Screening (RI2)



c. State of New York

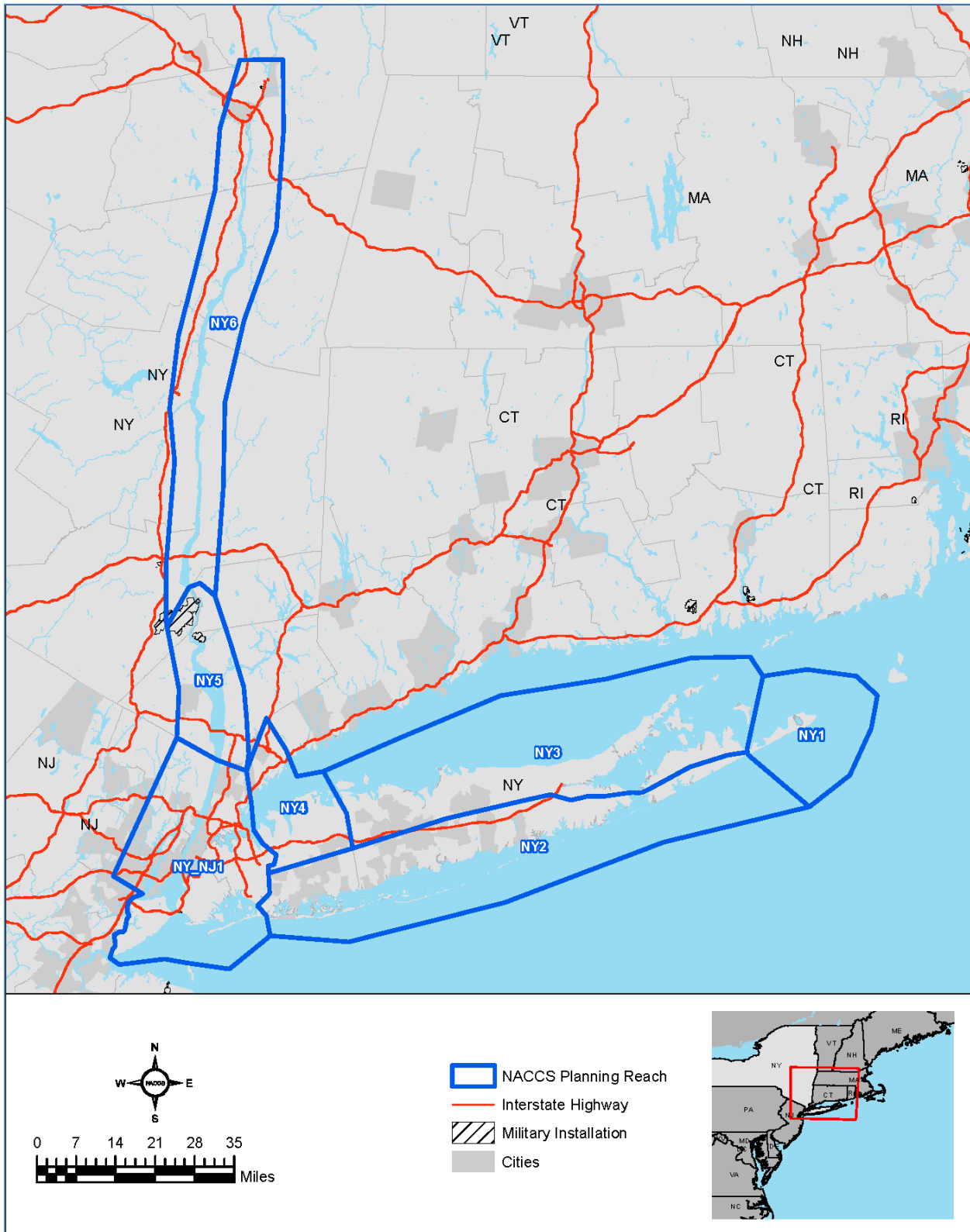


Figure IIc-1: Planning Reaches for the State of New York

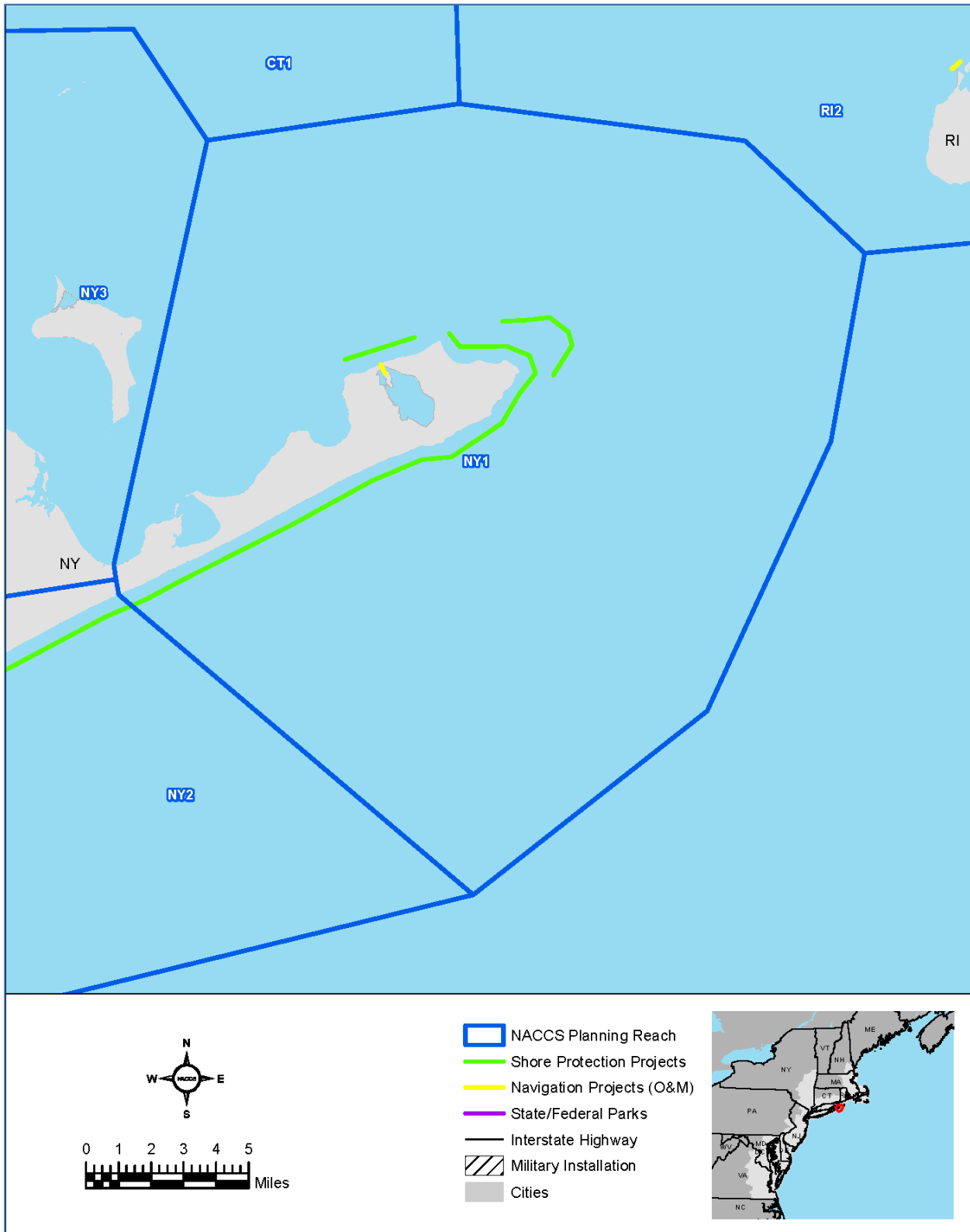


Figure 11c-2: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NY1)

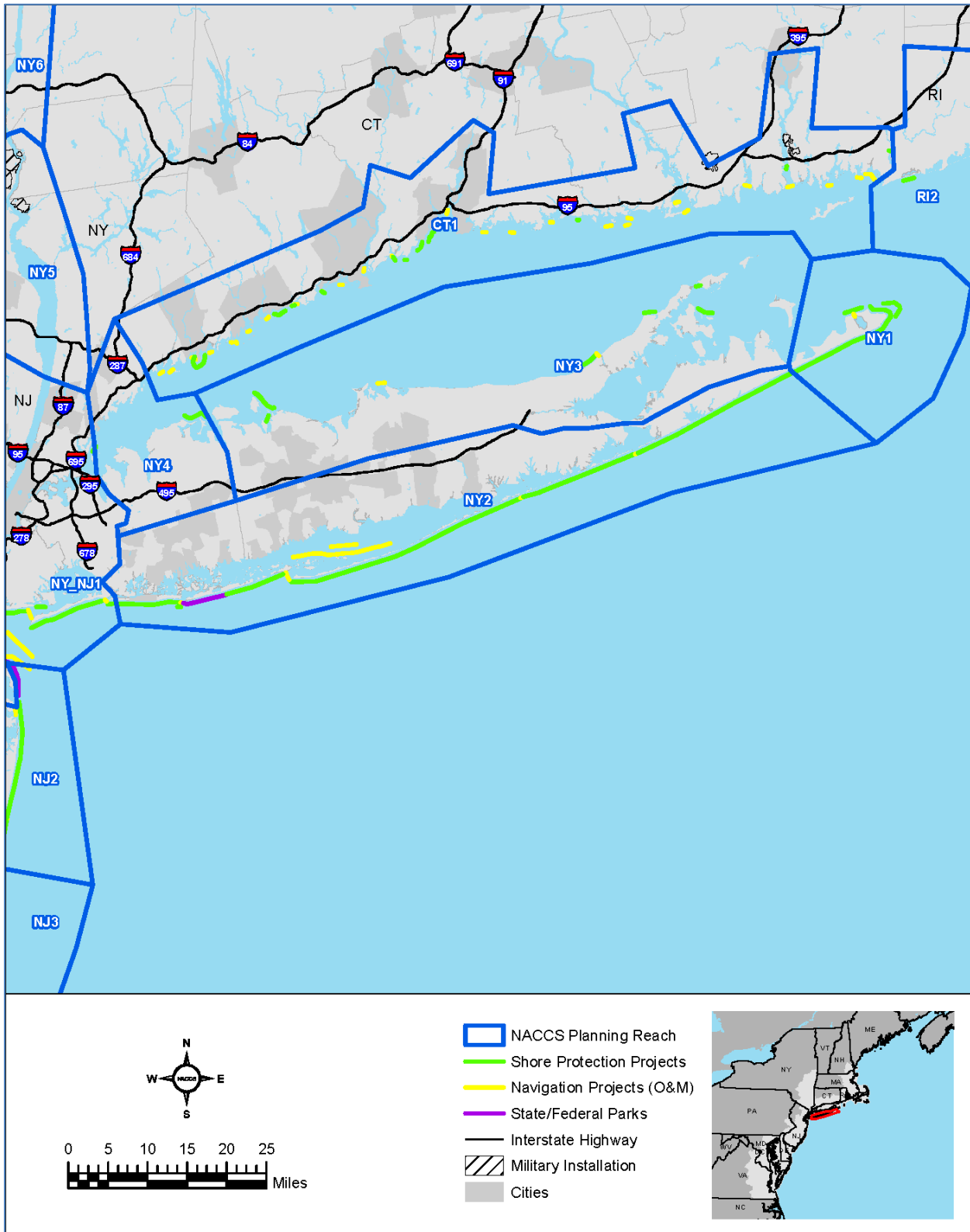


Figure 11c-3: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NY2)

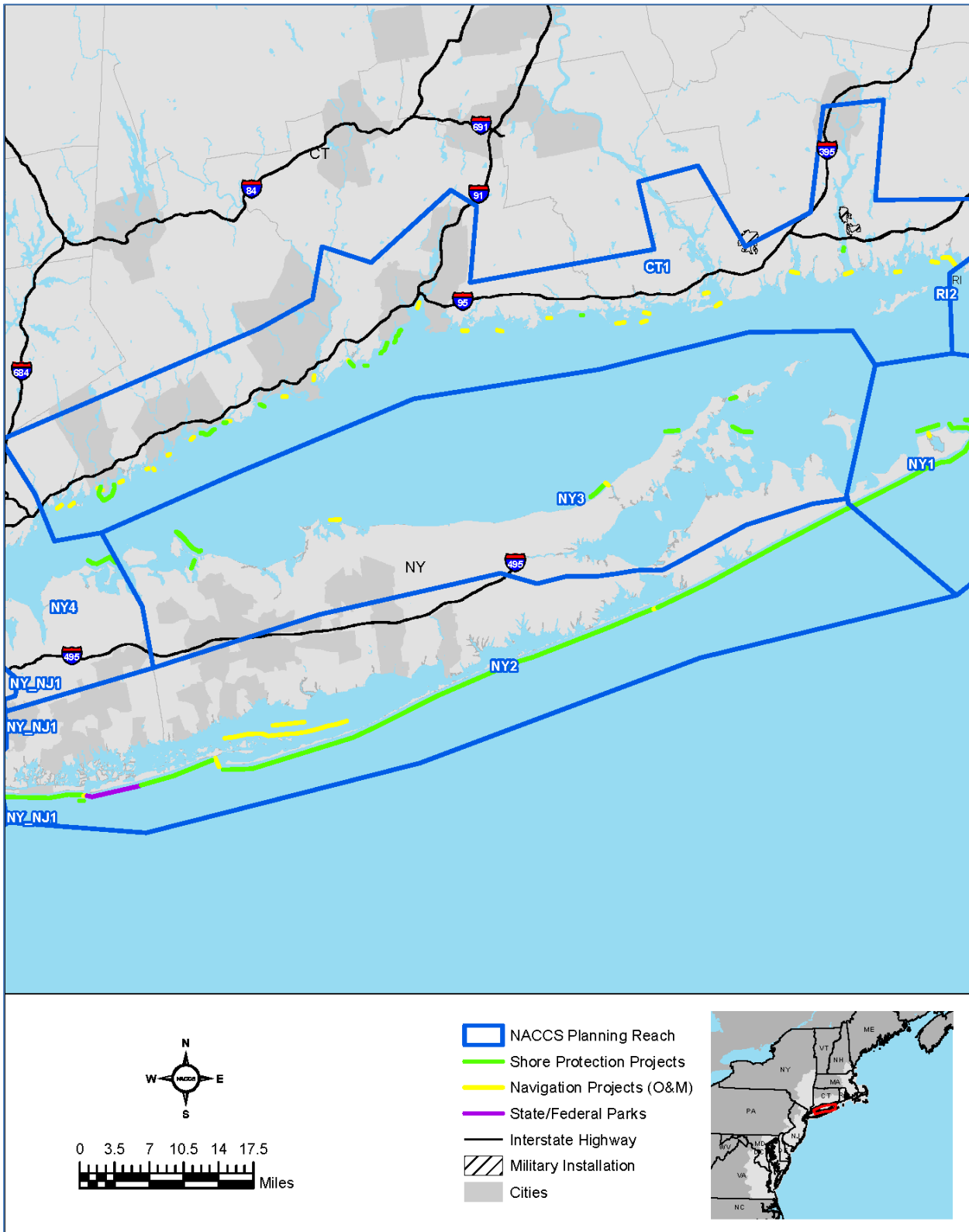


Figure 11c-4: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NY3)

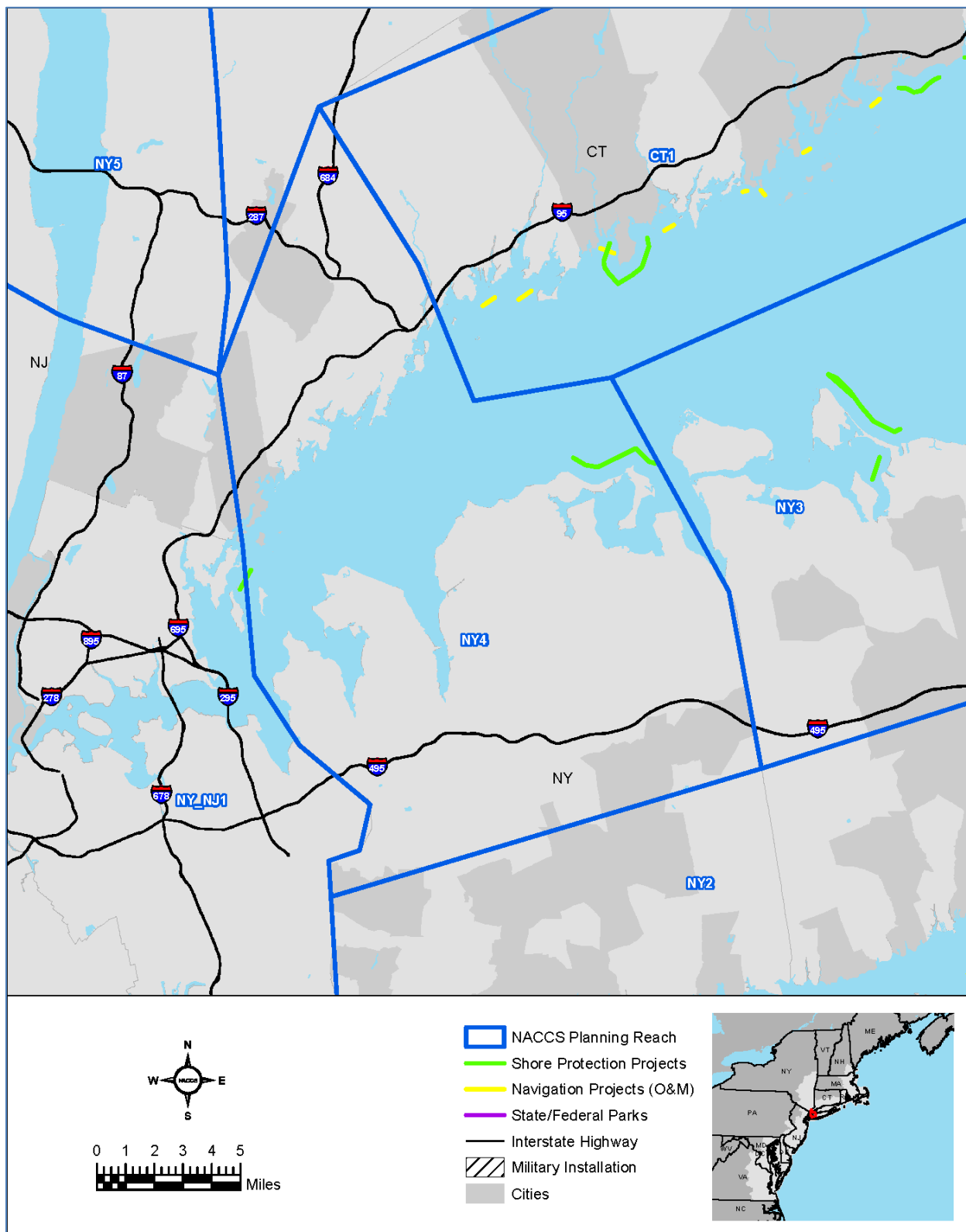


Figure 11c-5: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NY4)

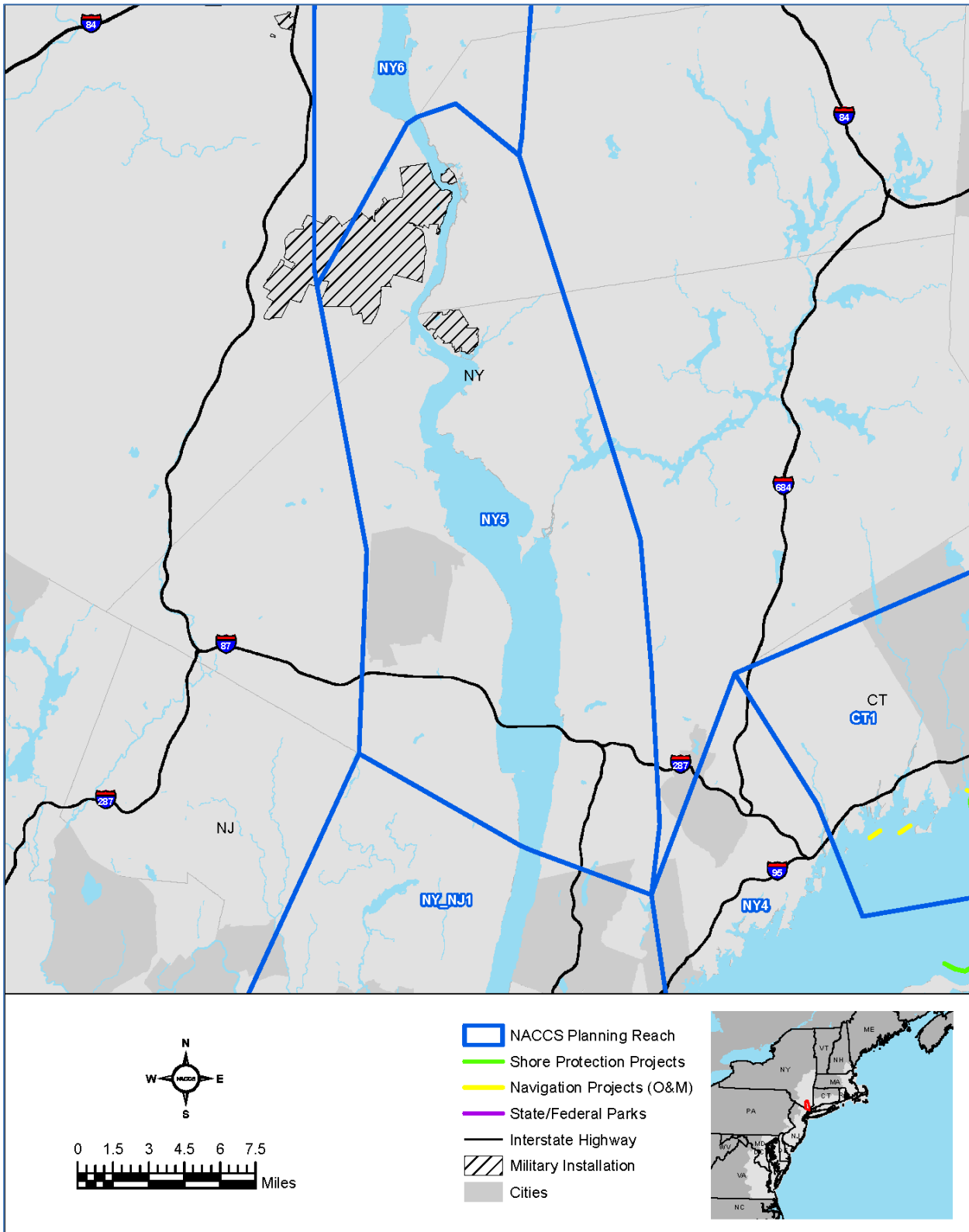


Figure 11c-6: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NY5)

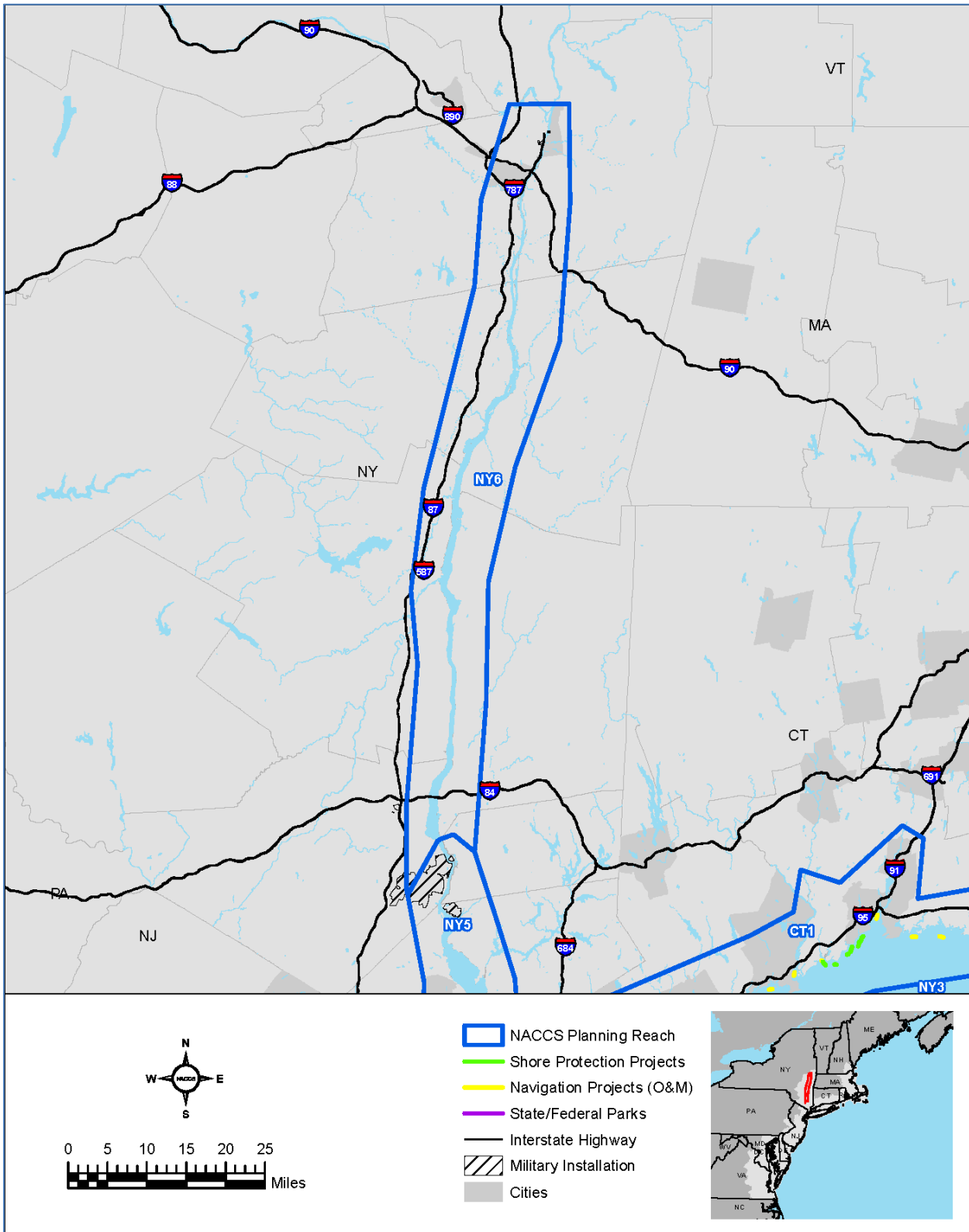


Figure 11c-7: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NY6)

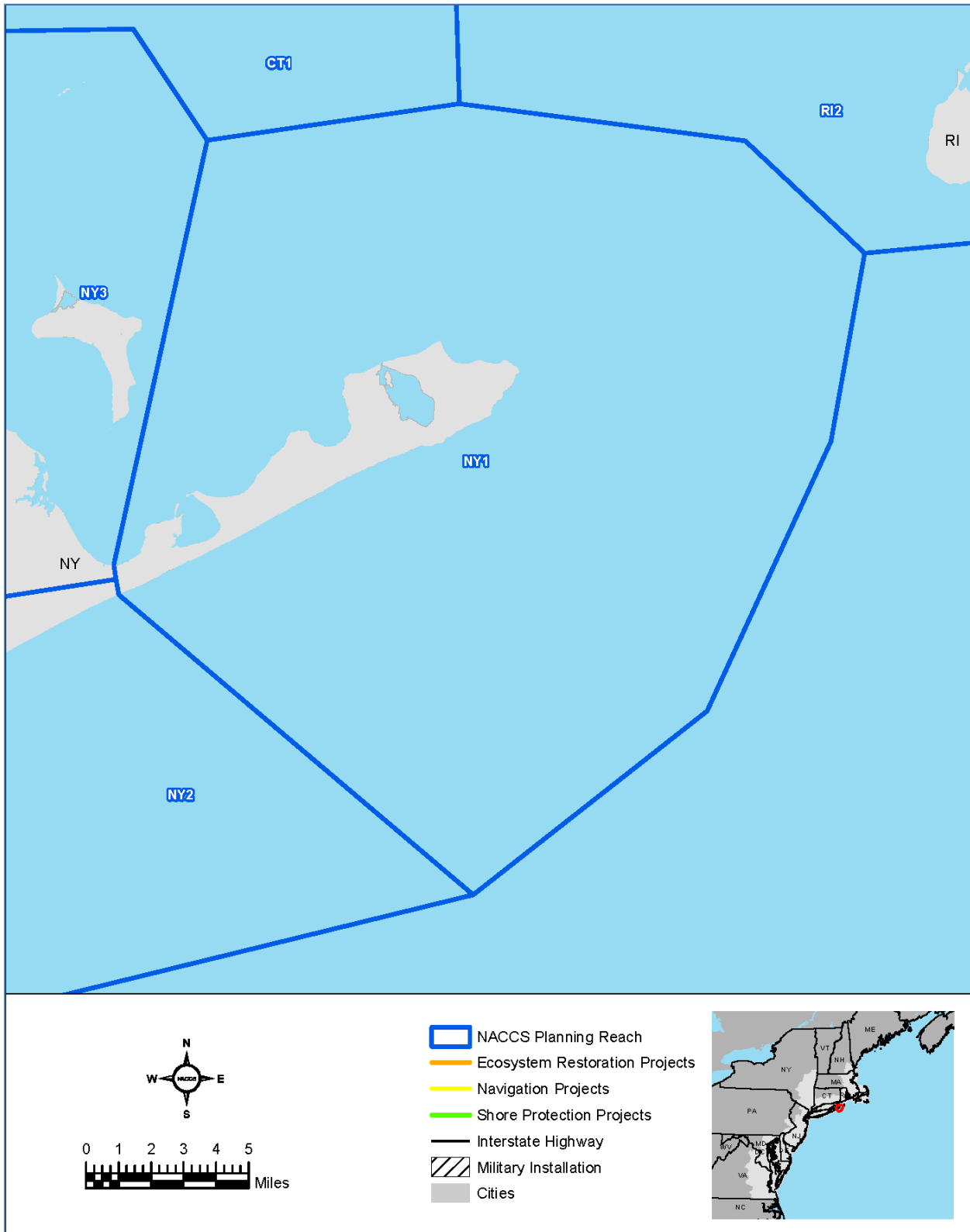


Figure 11c-8: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NY1)

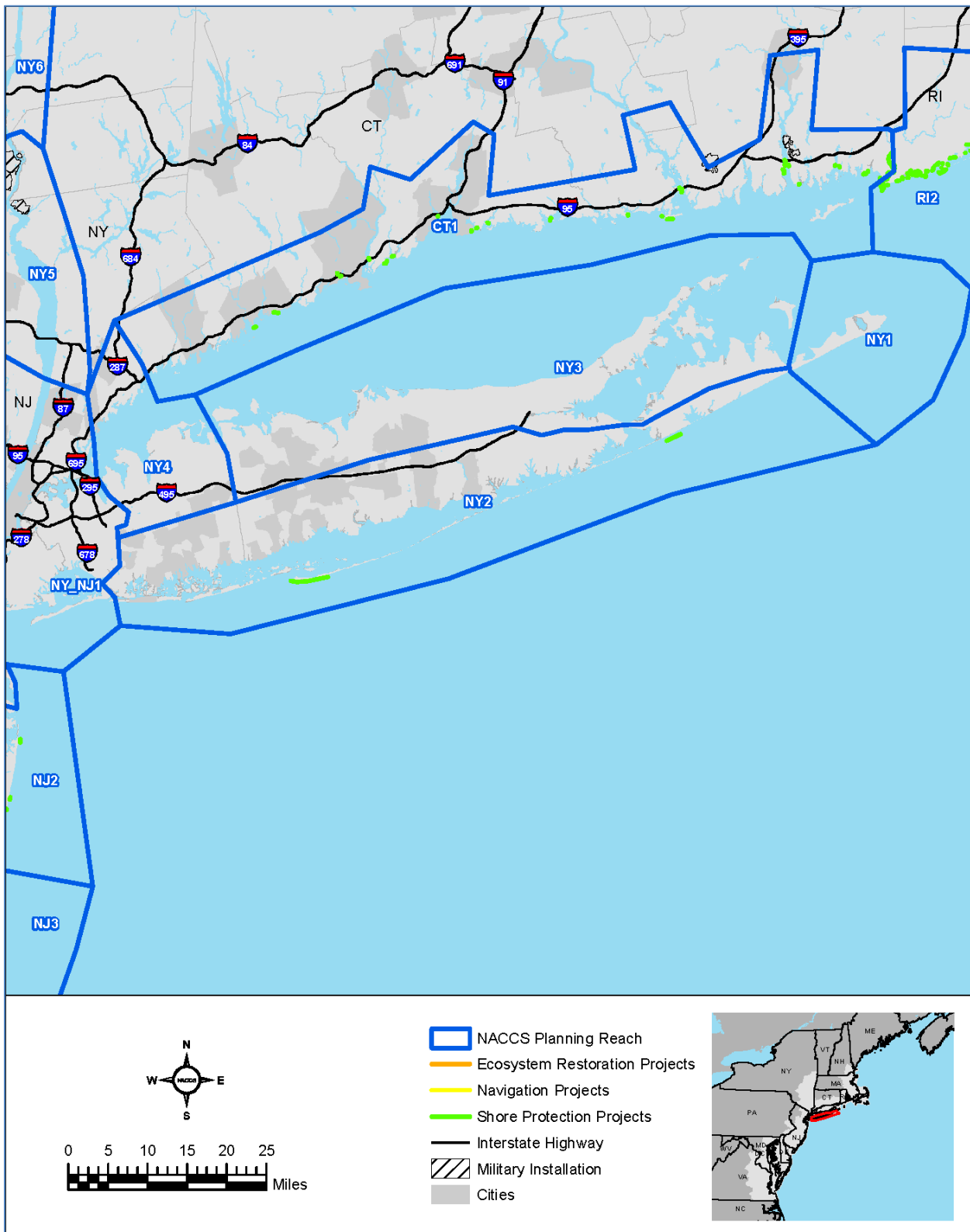


Figure 11c-9: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NY2)

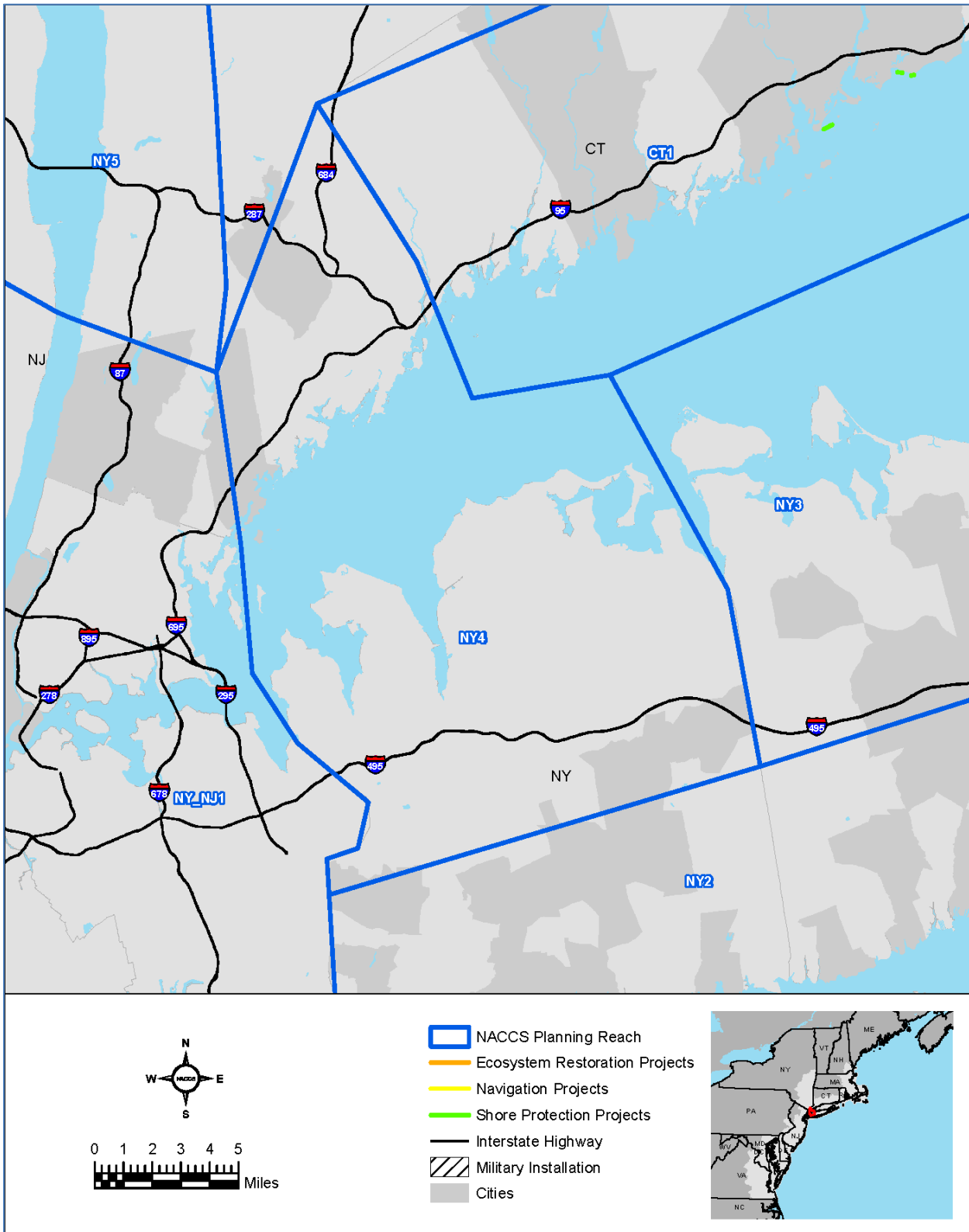


Figure Ilc-11: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NY4)

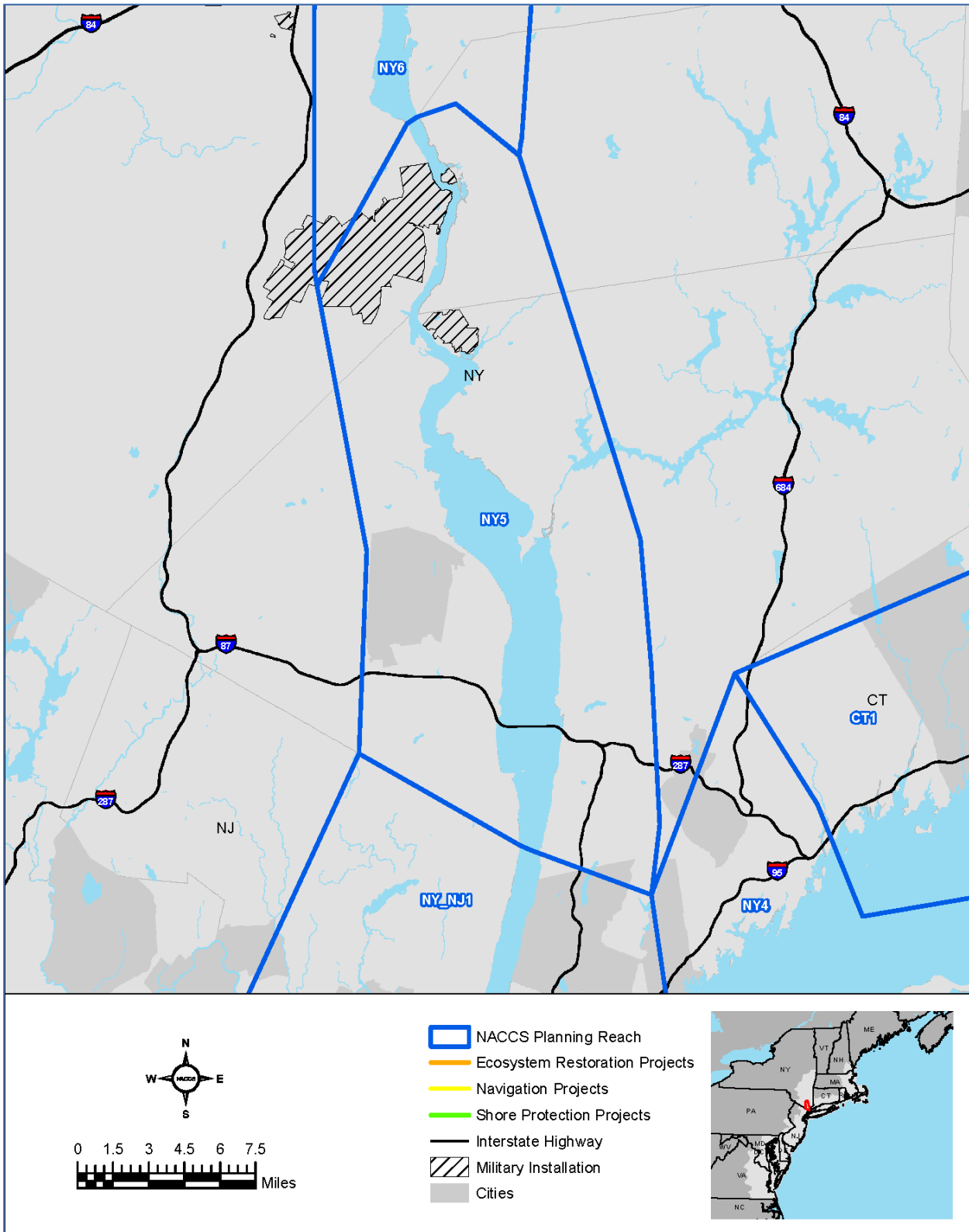


Figure IIc-12: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NY5)

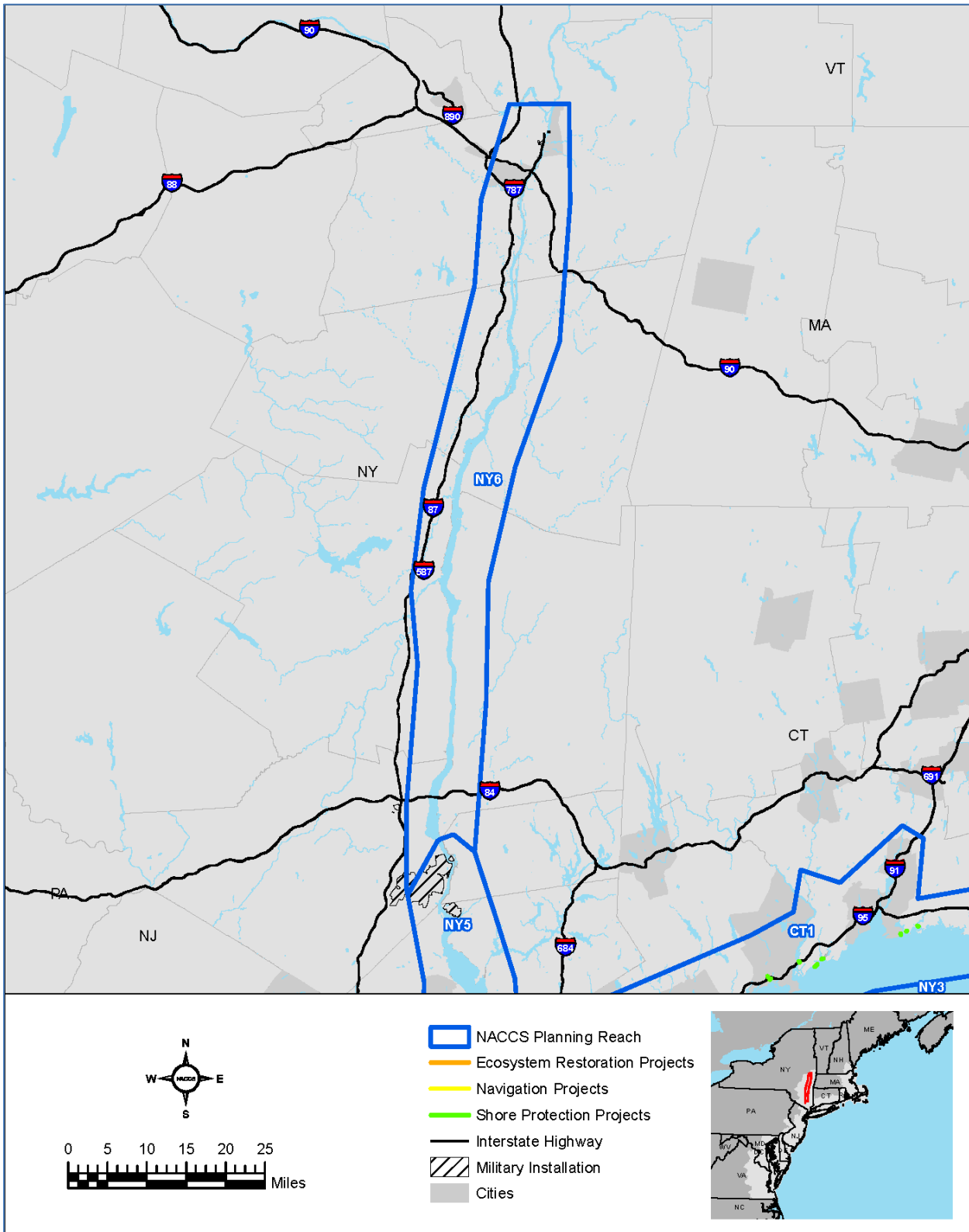


Figure IIc-13: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NY6)

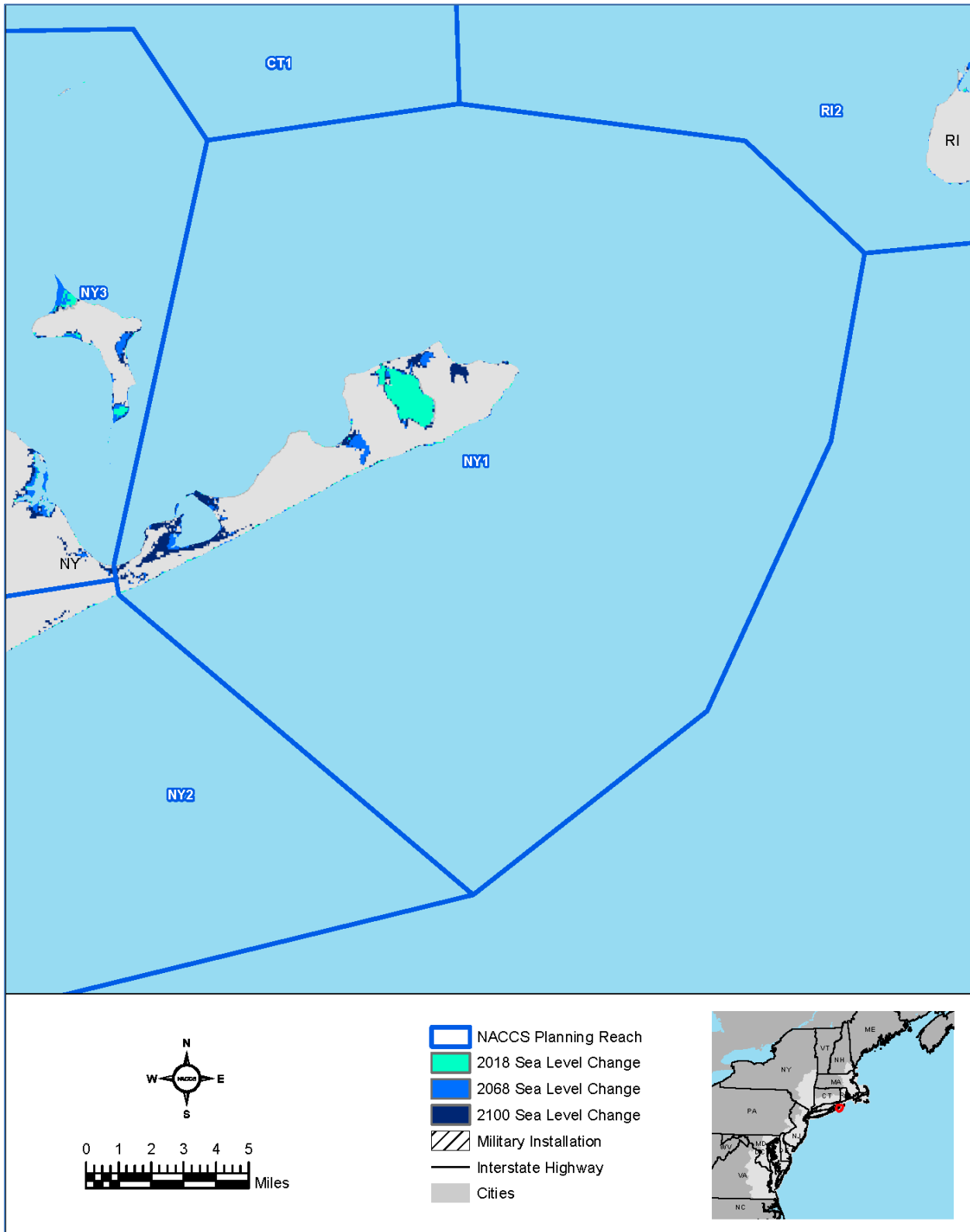


Figure IIc-14: USACE High Scenario Future Mean Sea Level Change Inundation (NY1)

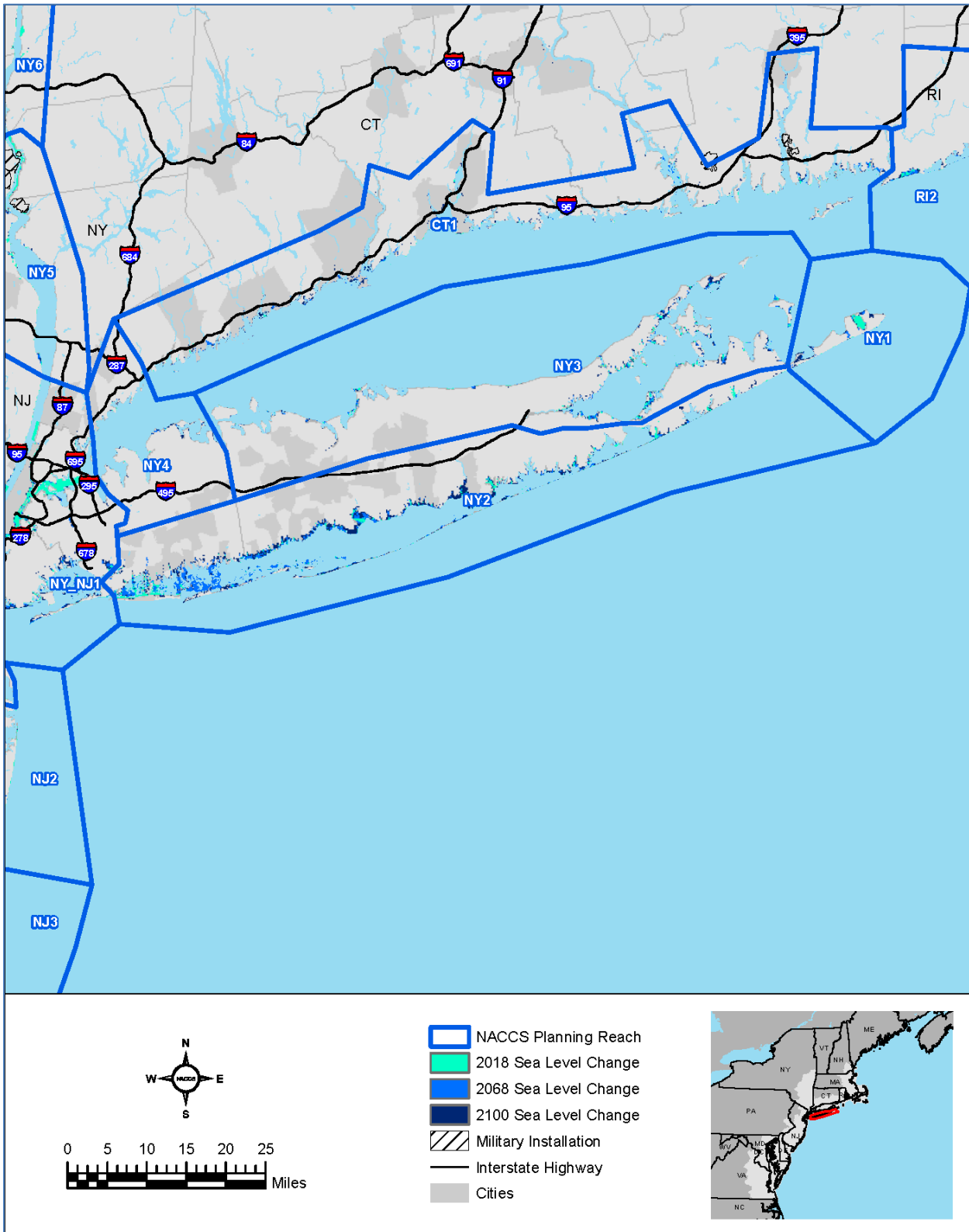


Figure Ilc-15: USACE High Scenario Future Mean Sea Level Change Inundation (NY2)

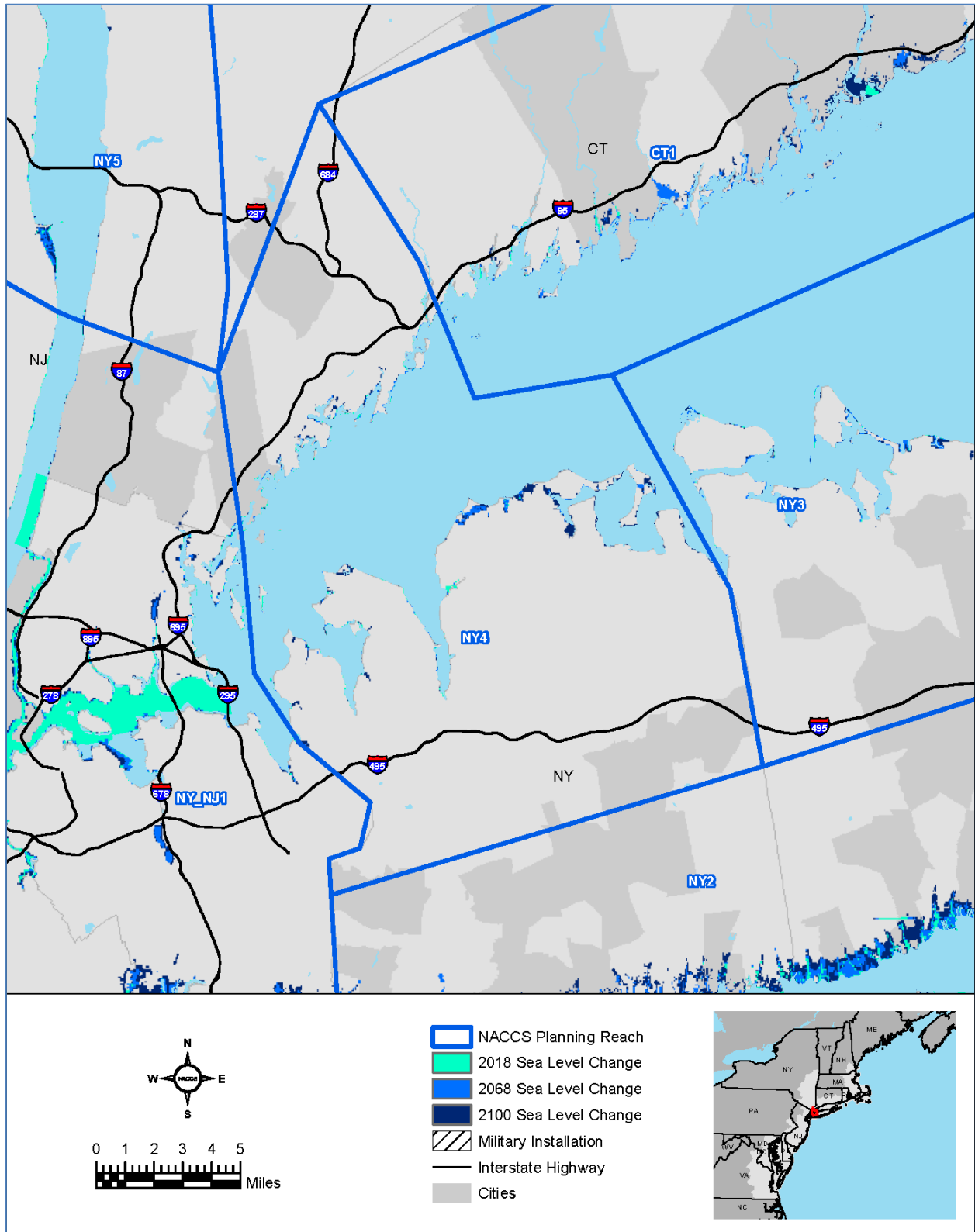


Figure Ilc-17: USACE High Scenario Future Mean Sea Level Change Inundation (NY4)

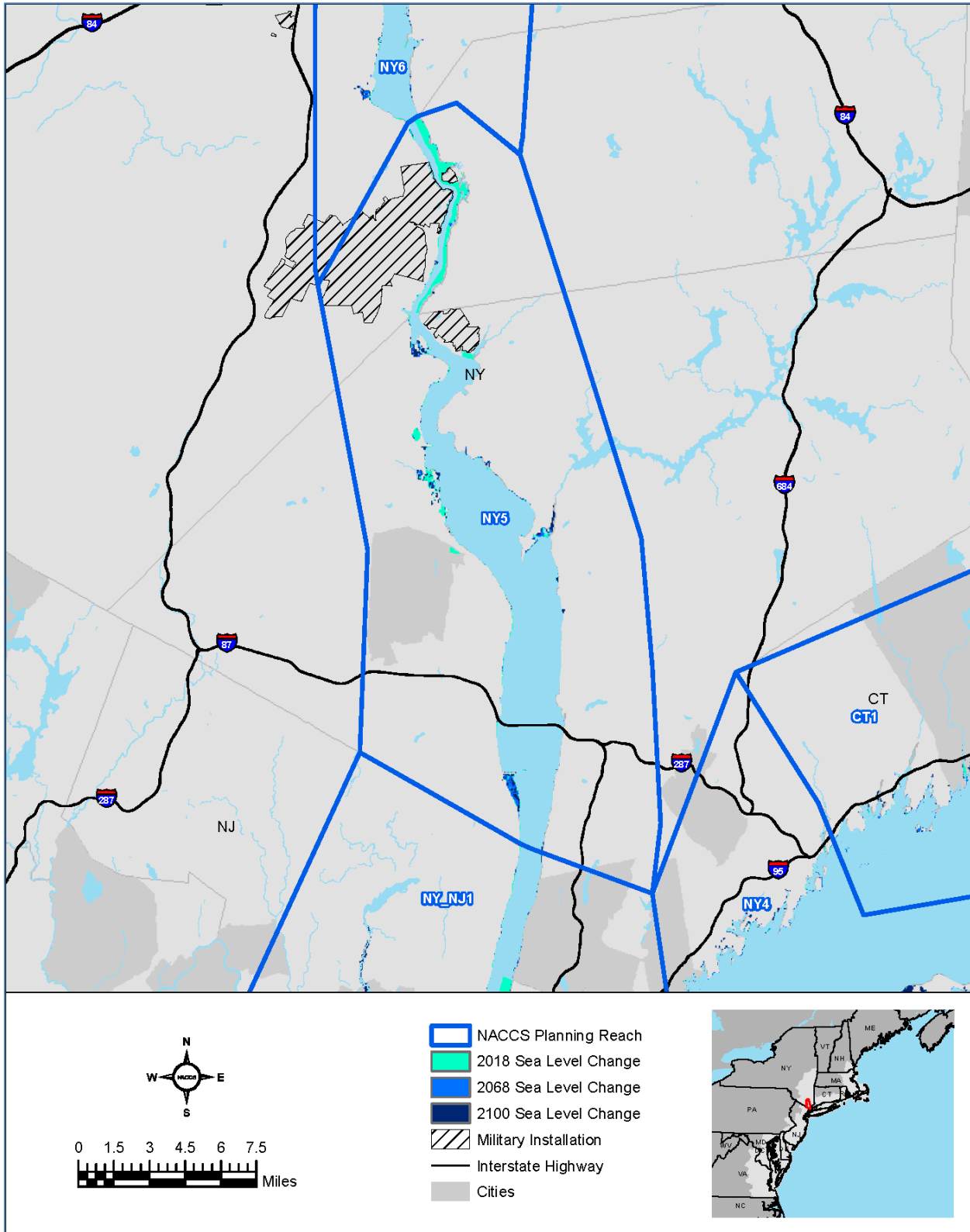


Figure Ilc-18: USACE High Scenario Future Mean Sea Level Change Inundation (NY5)

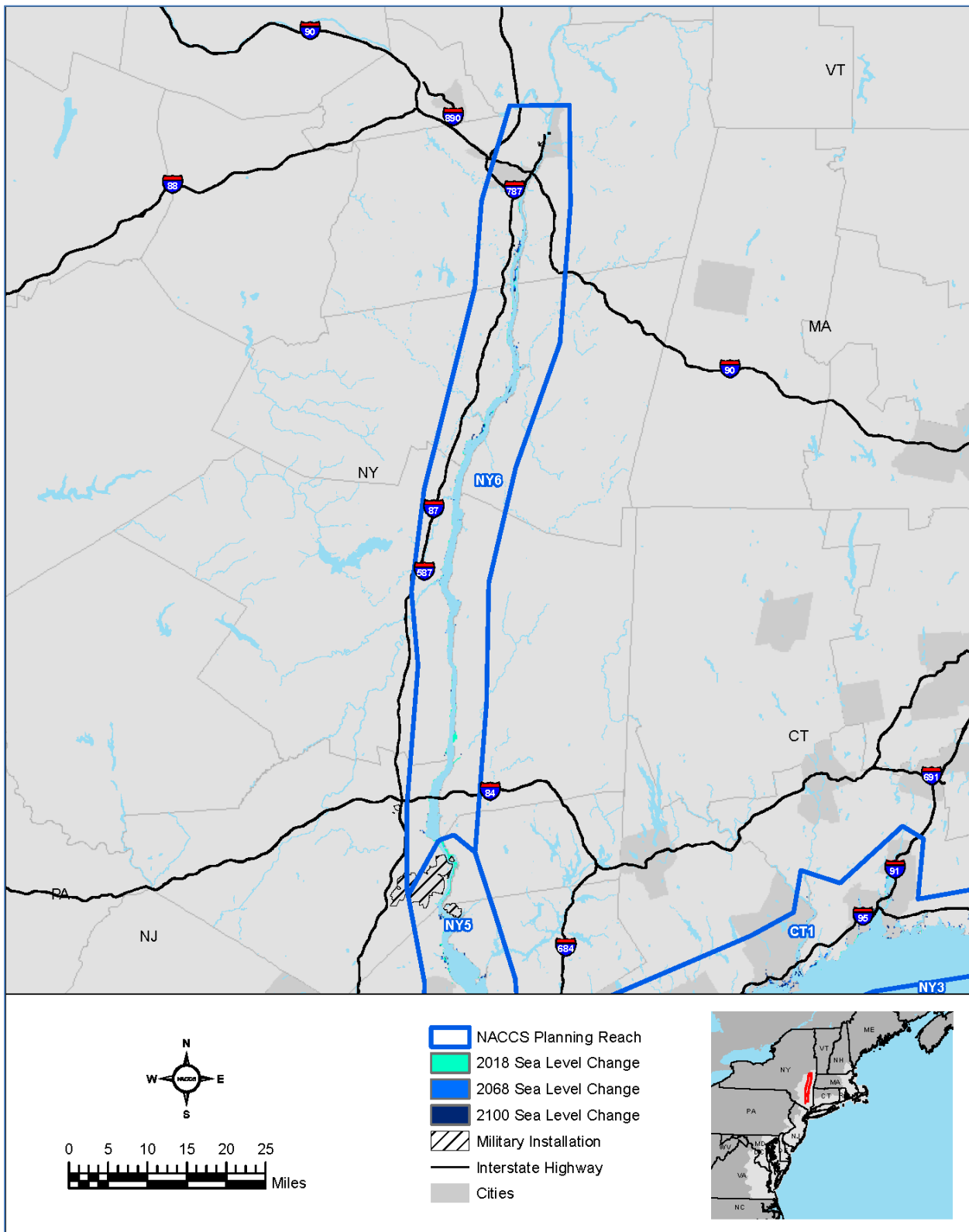


Figure IIc-19: USACE High Scenario Future Mean Sea Level Change Inundation (NY6)

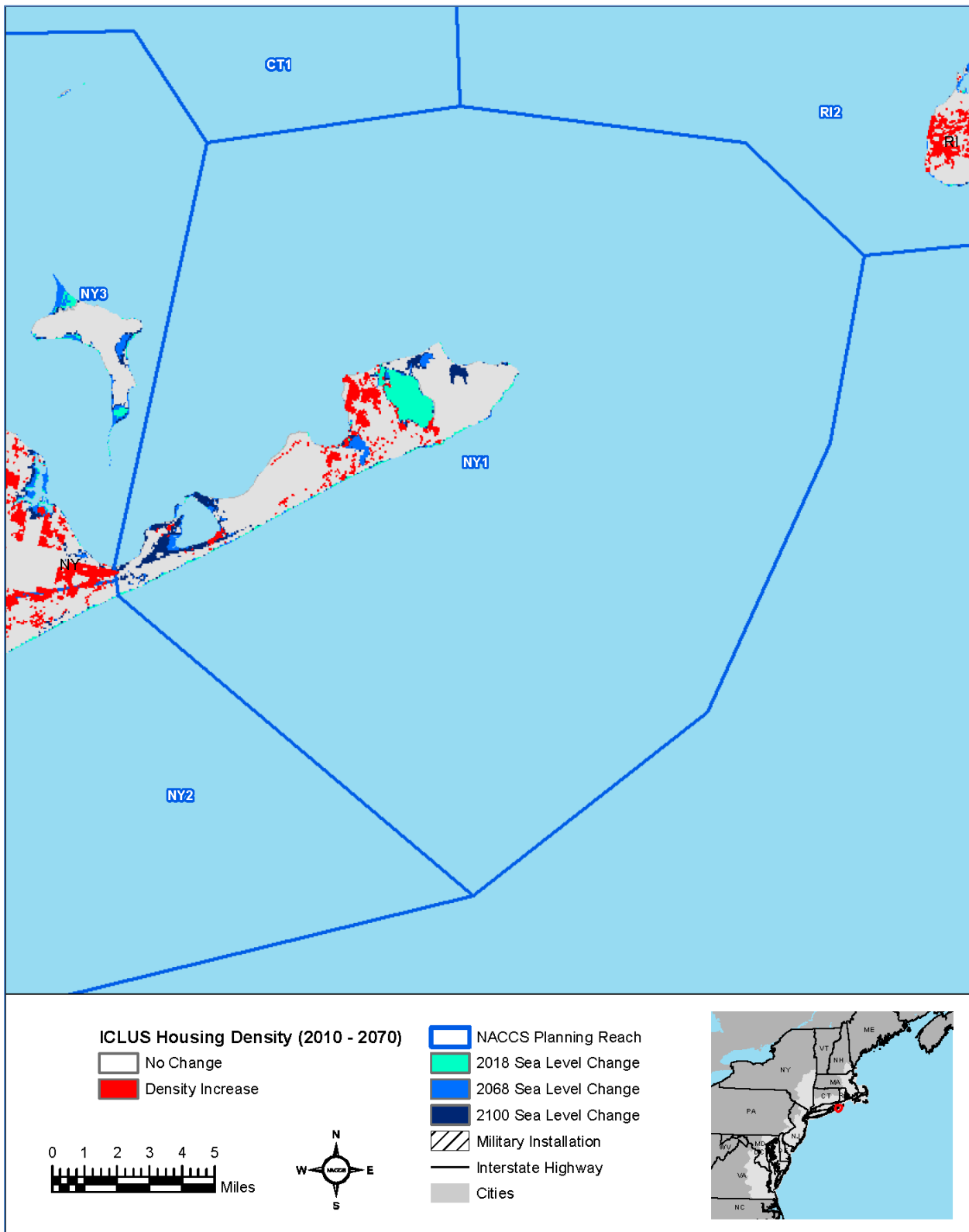


Figure 11c-20: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NY1)

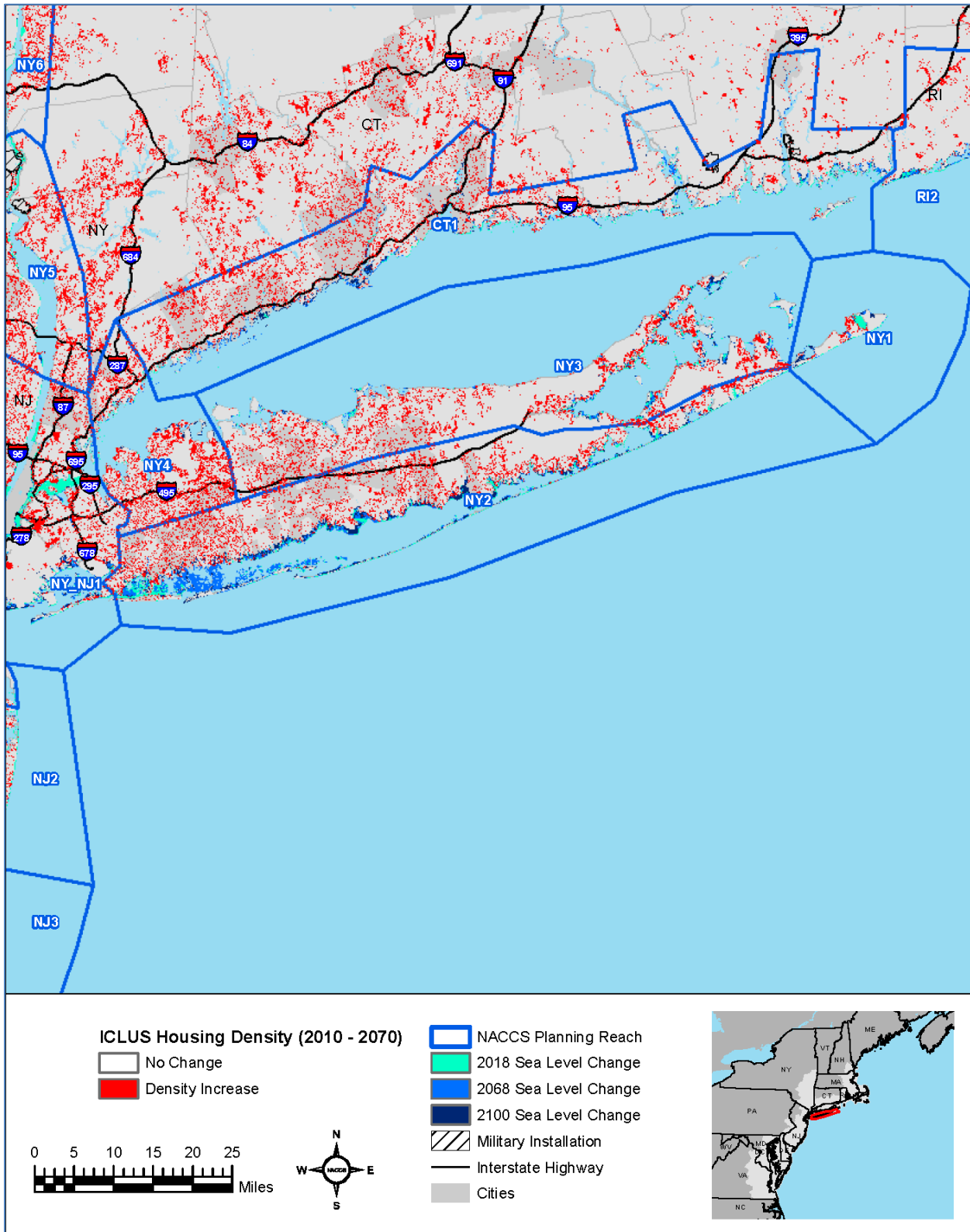


Figure 11c-21: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NY2)

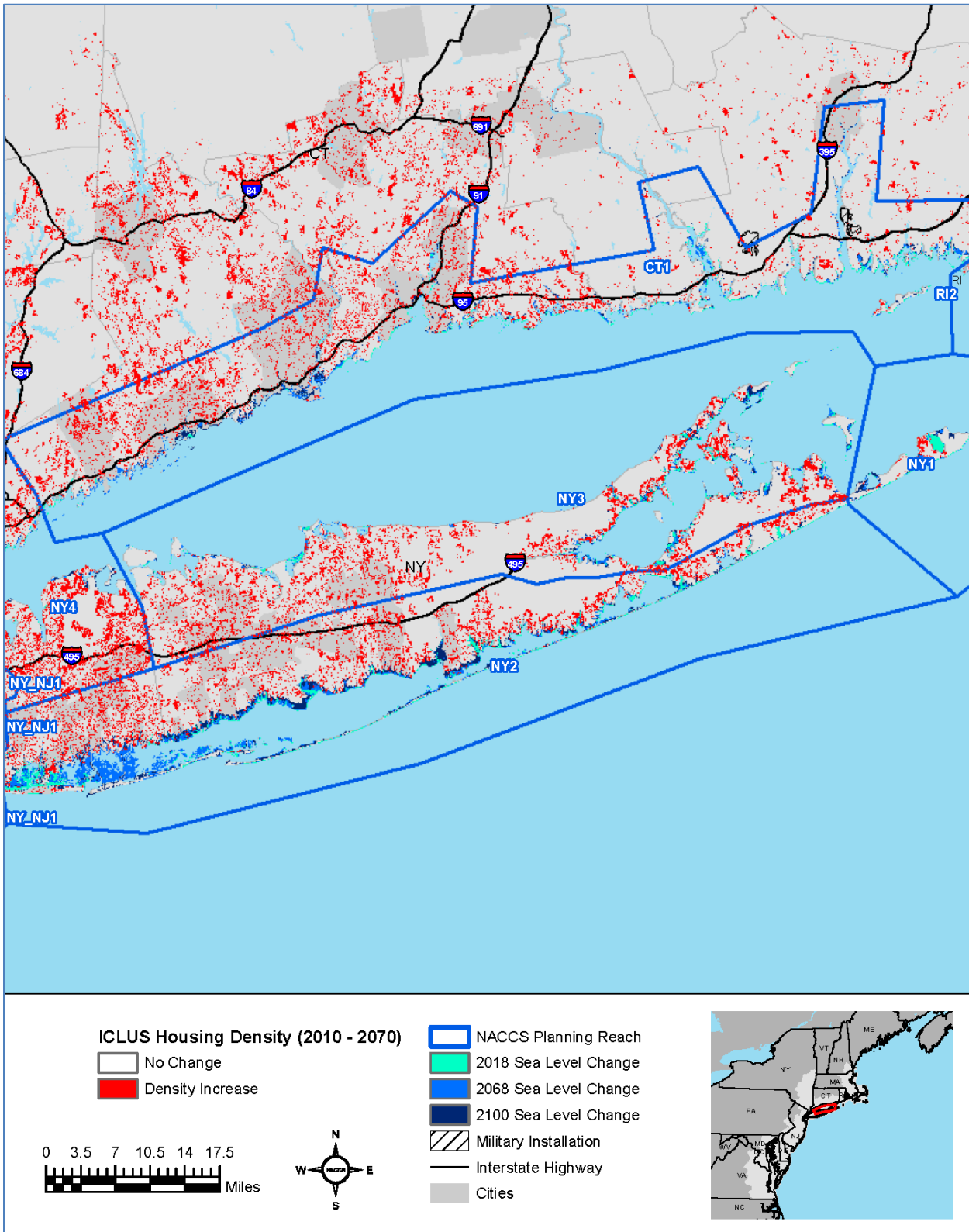
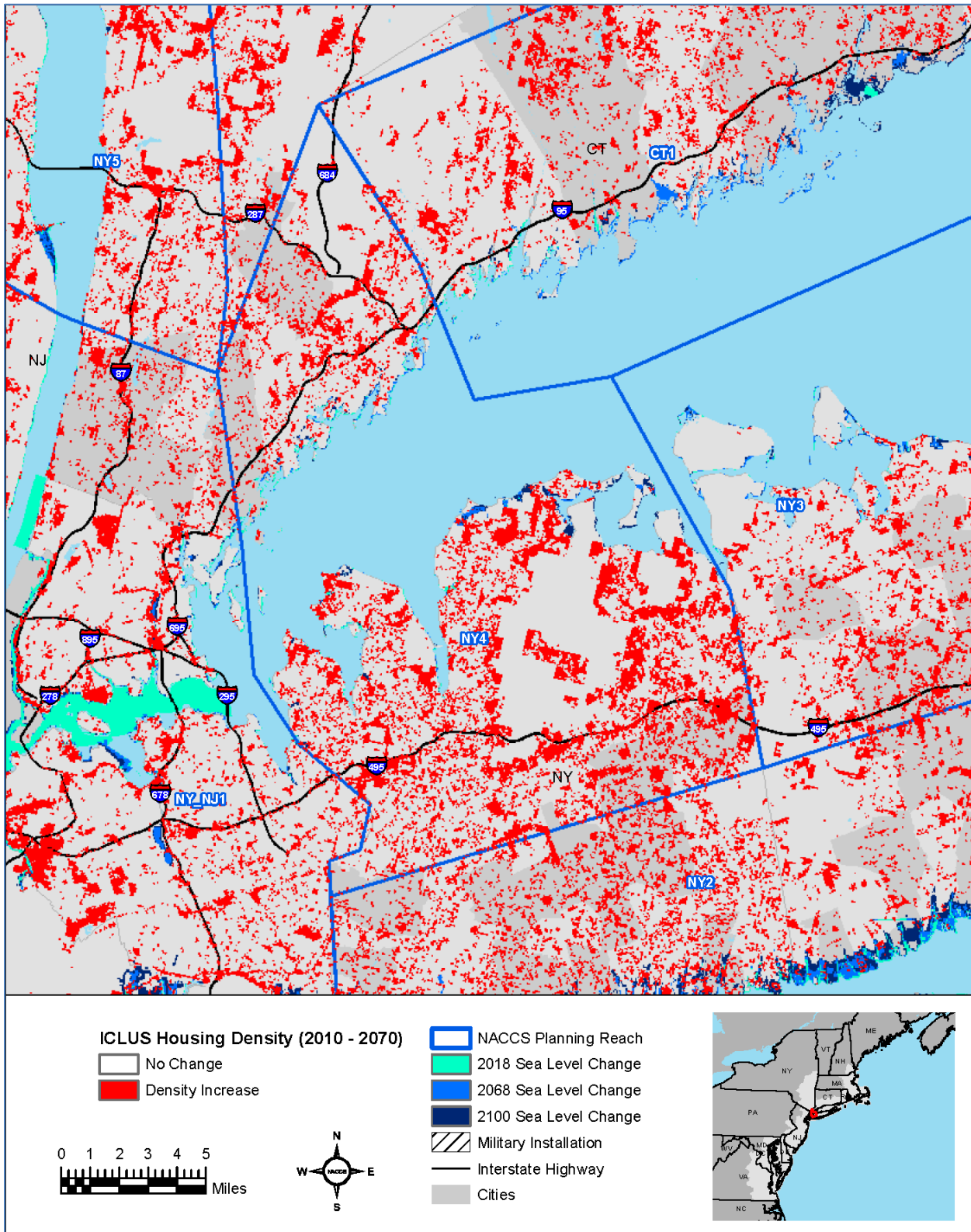


Figure 11c-22: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NY3)



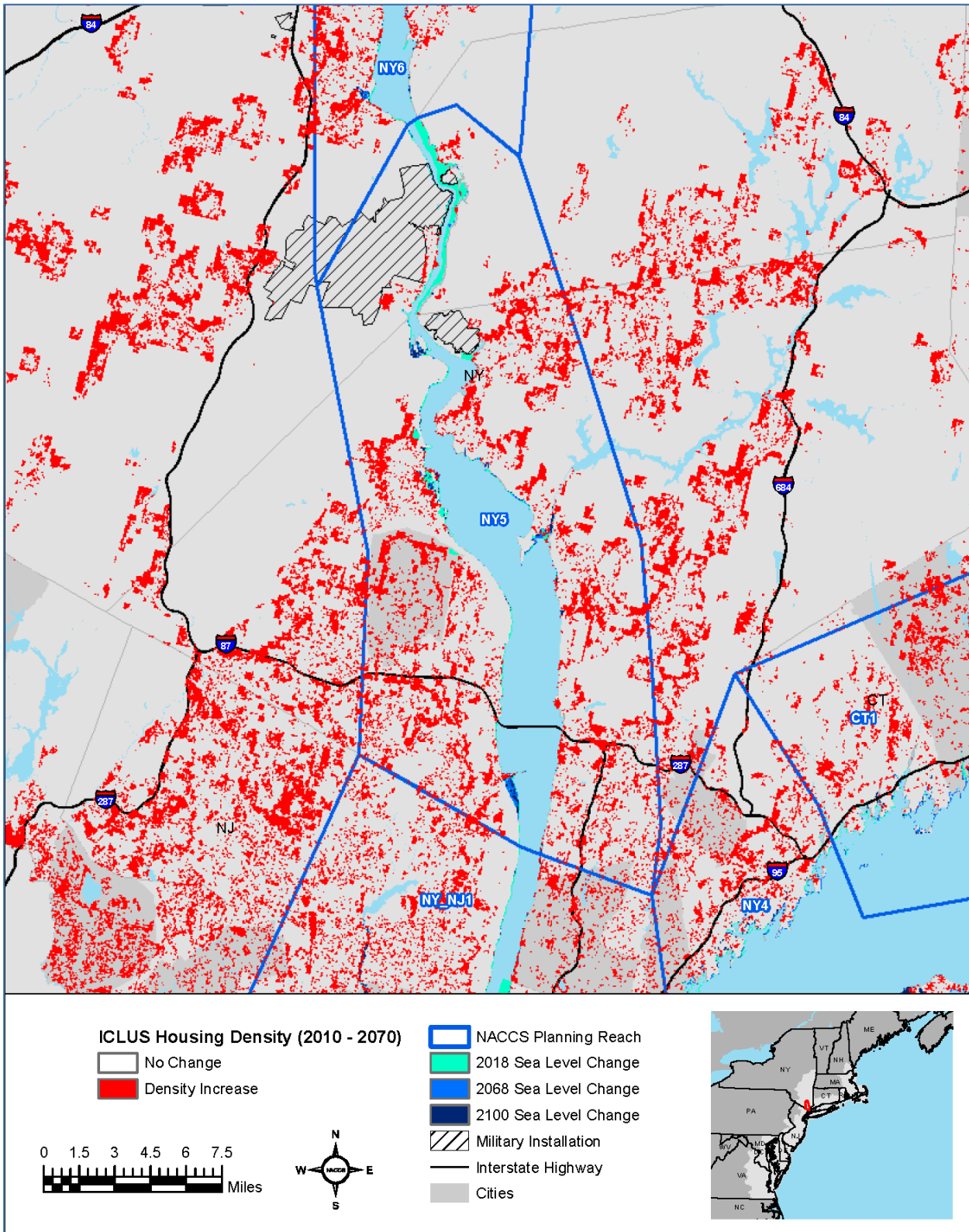


Figure 11c-24: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NY5)

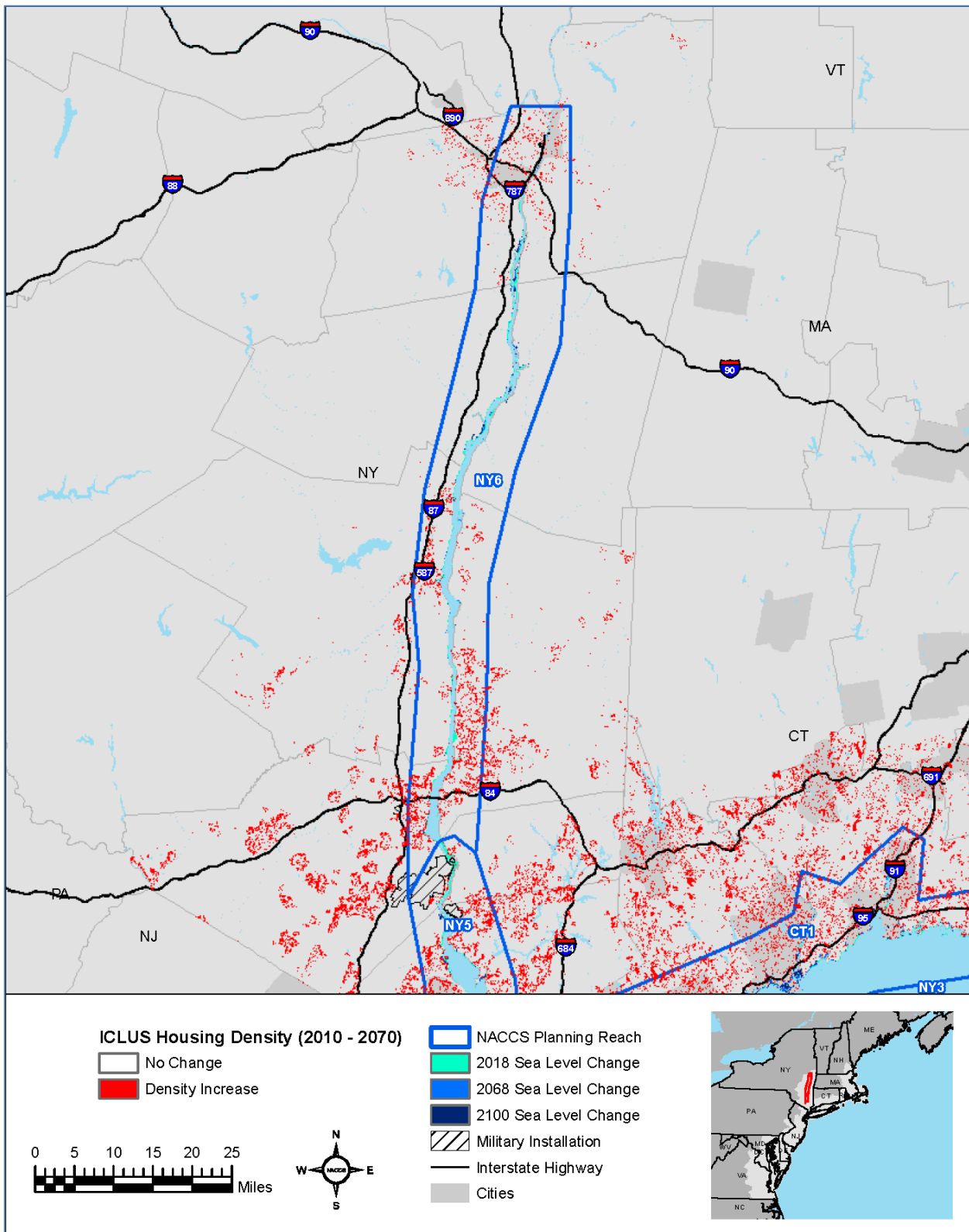


Figure 11c-25: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NY6)

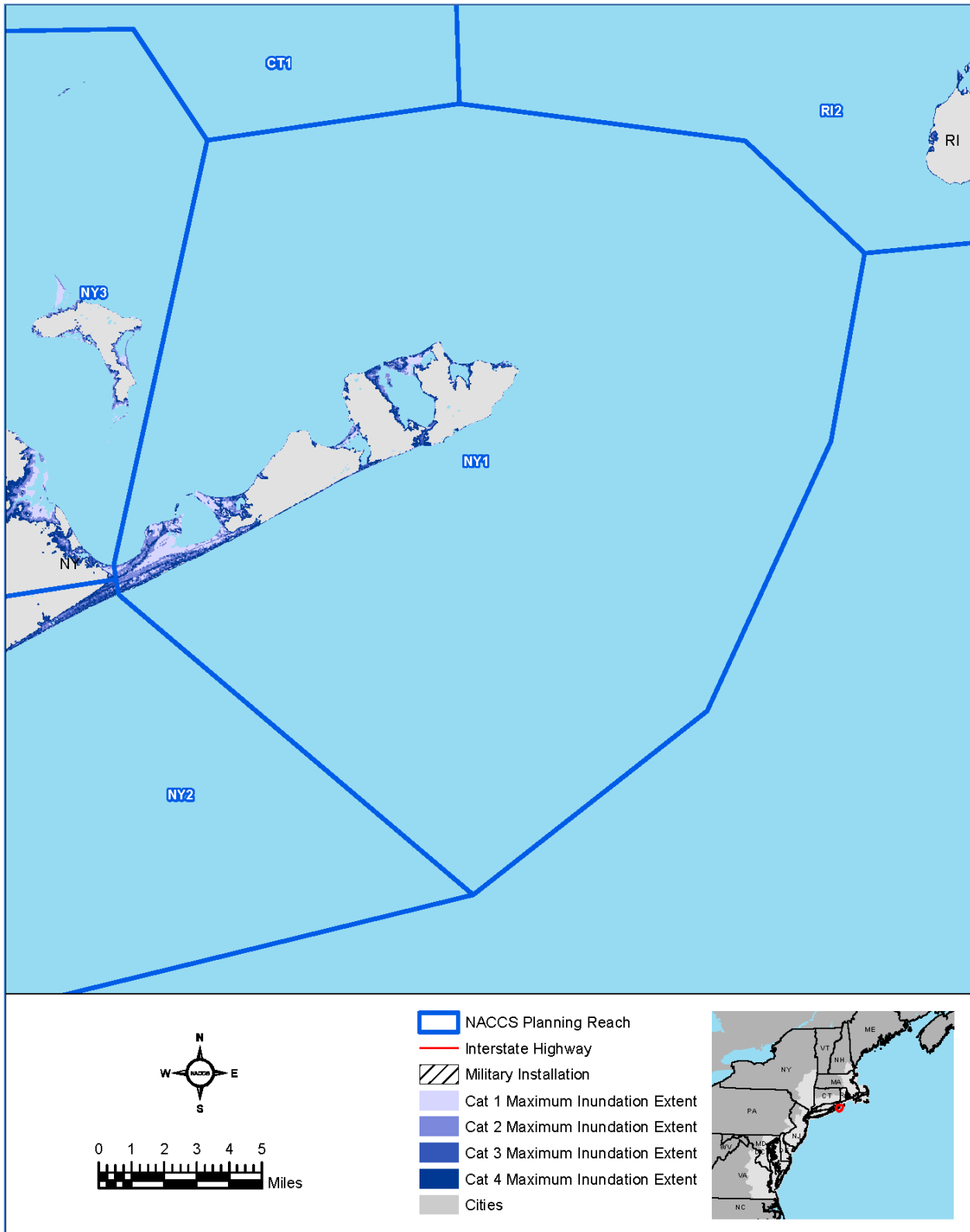


Figure IIc-26: Impacted Area Category 1-4 Water Levels (NY1)

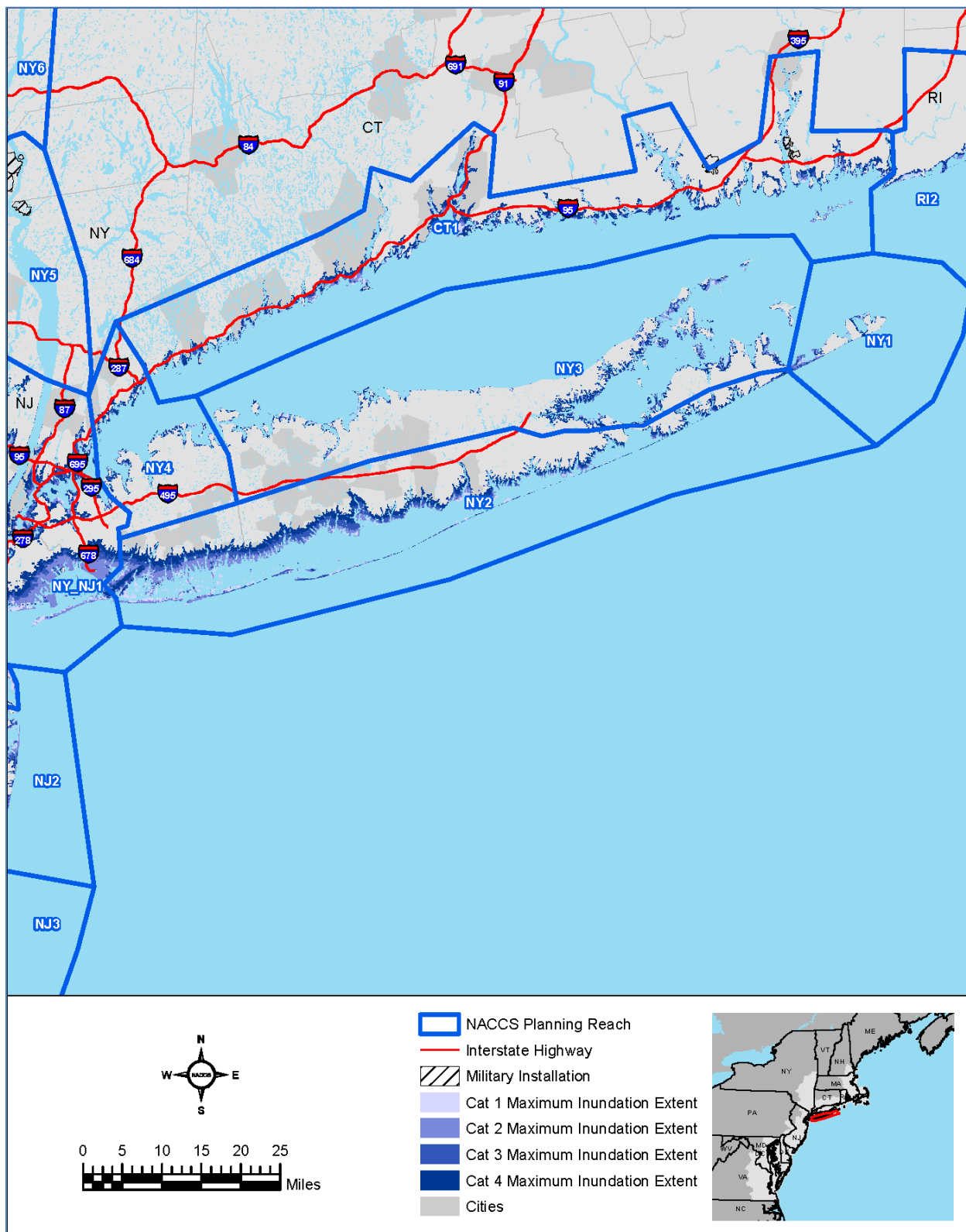


Figure IIc-27: Impacted Area Category 1-4 Water Levels (NY2)

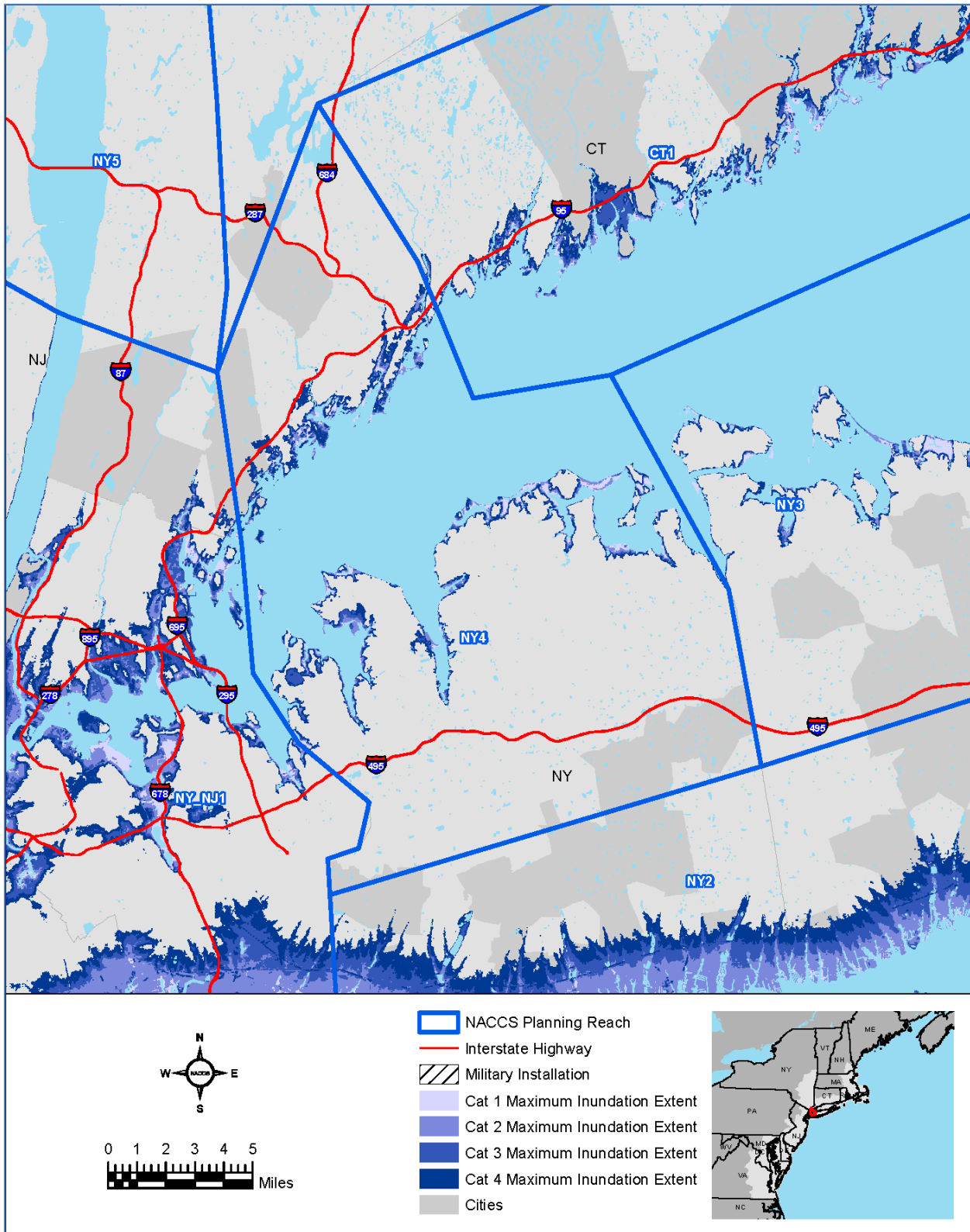


Figure 11c-29: Impacted Area Category 1-4 Water Levels (NY4)

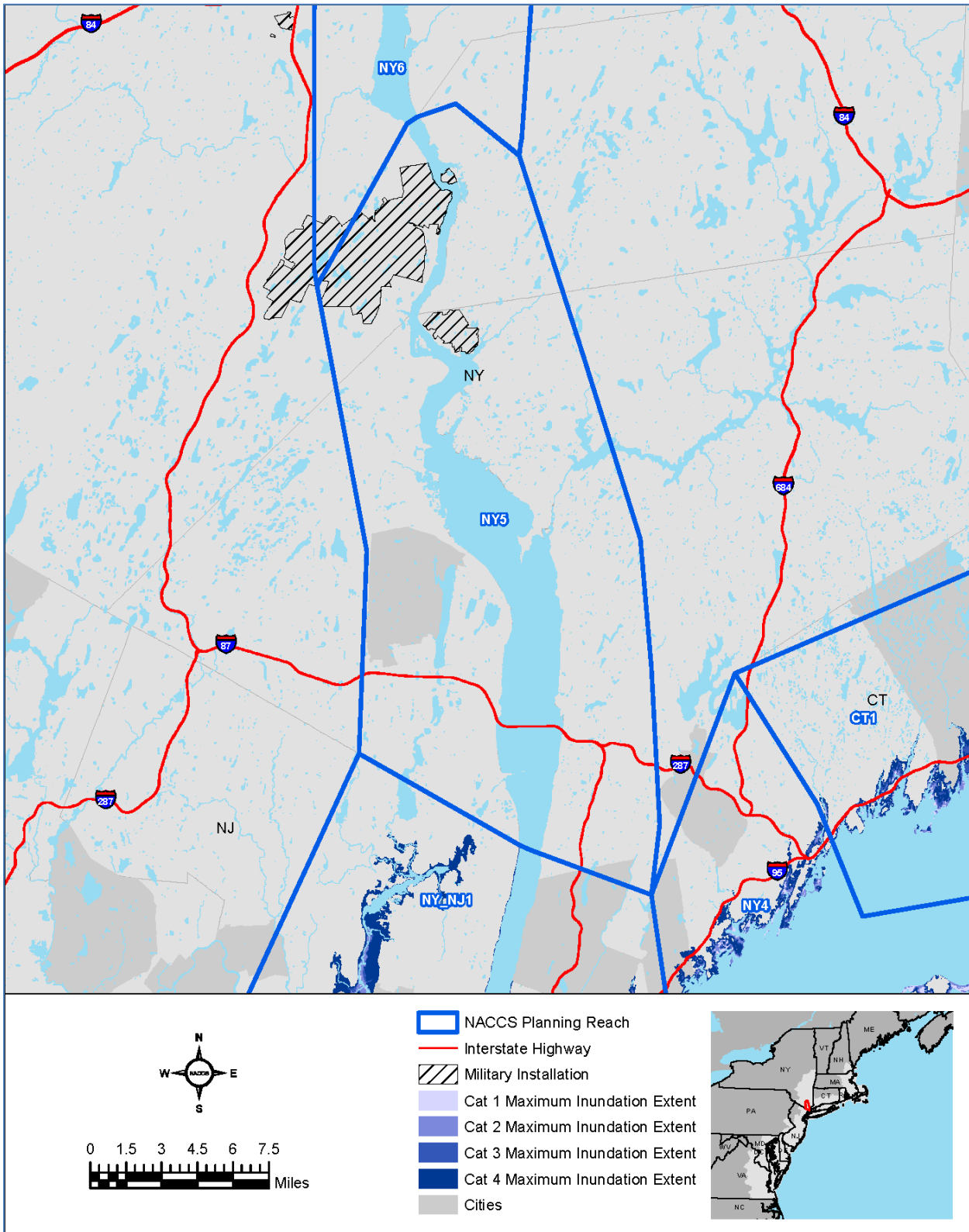


Figure IIc-30: Impacted Area Category 1-4 Water Levels (NY5)

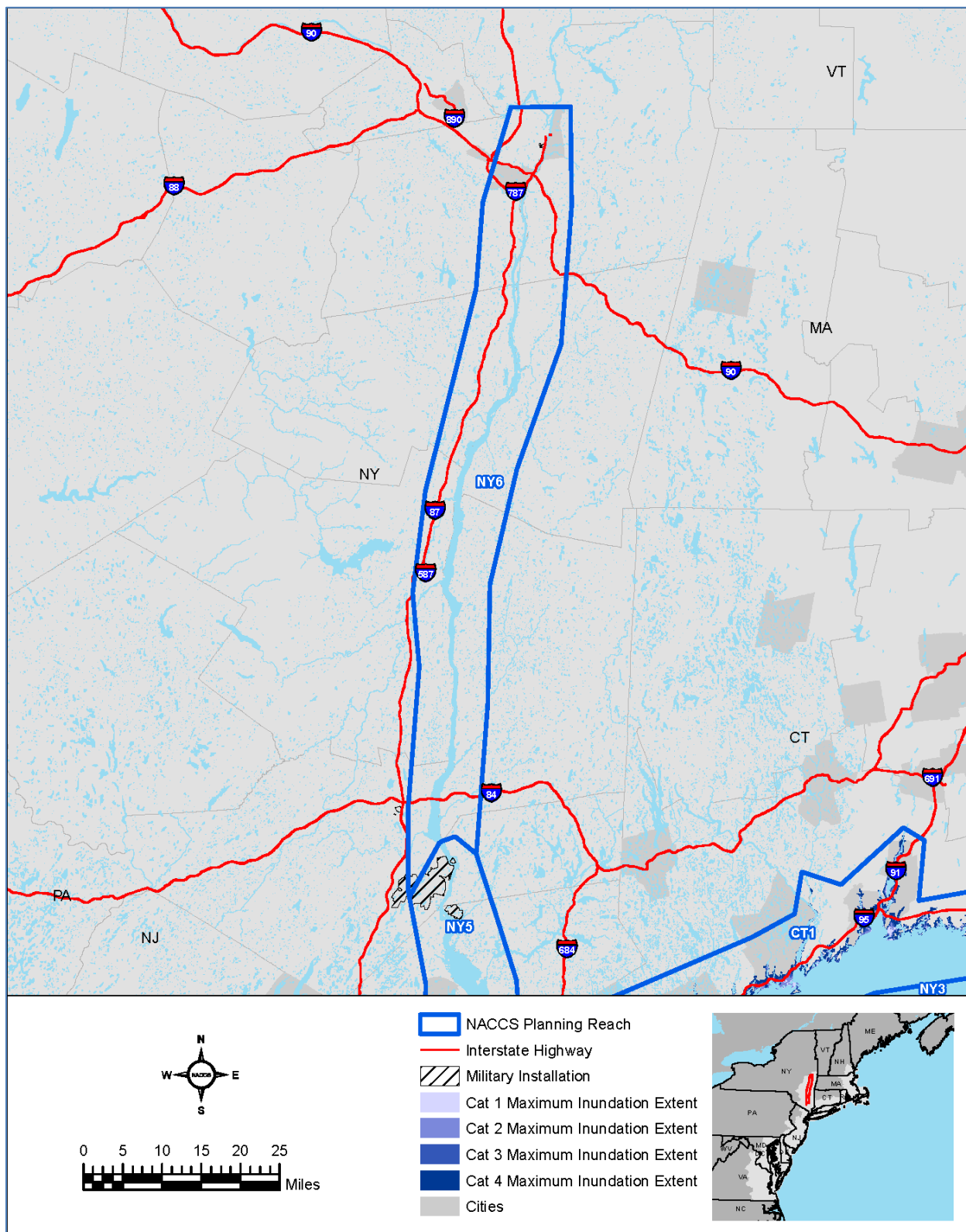


Figure IIc-31: Impacted Area Category 1-4 Water Levels (NY6)

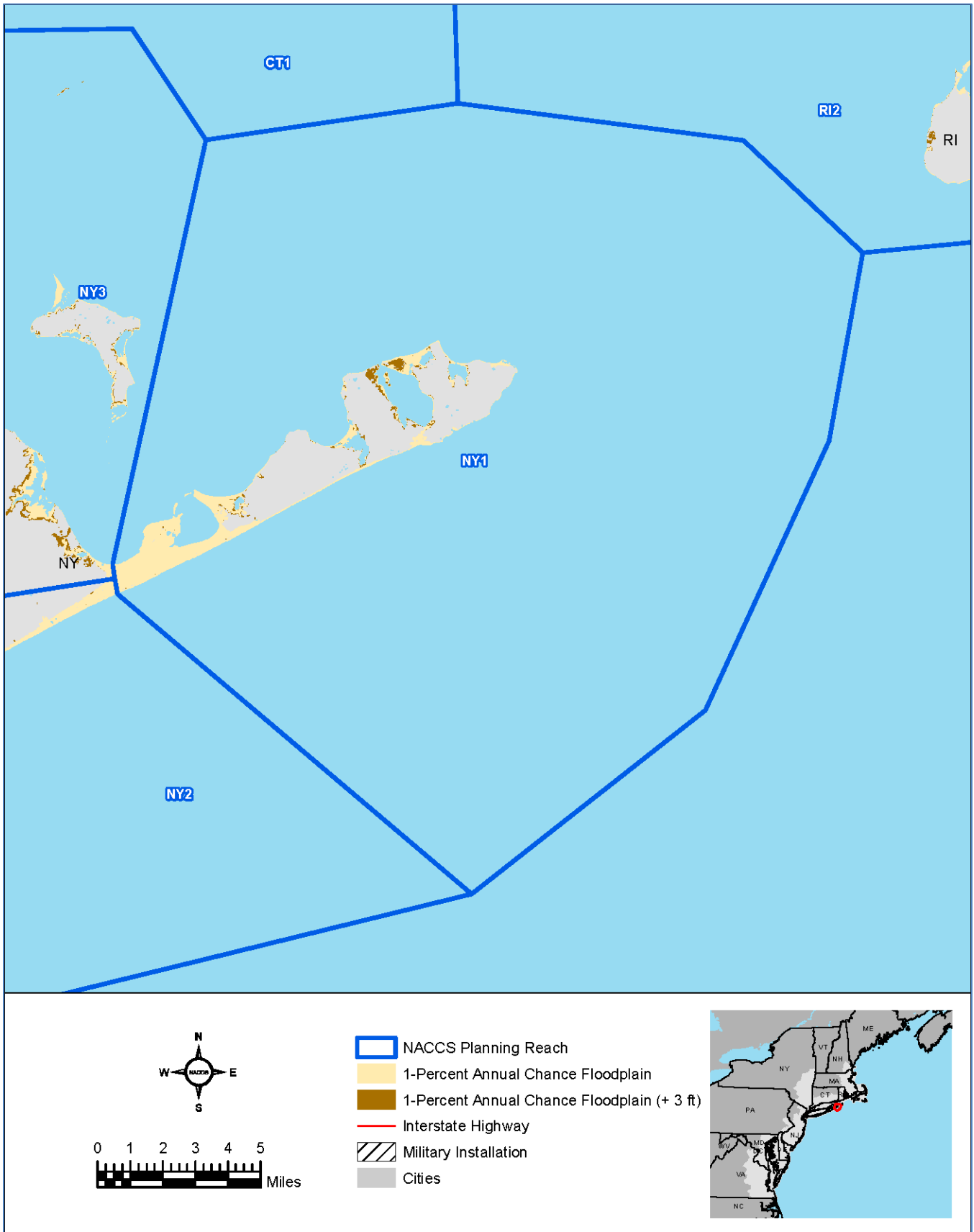


Figure IIc-32: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NY1)

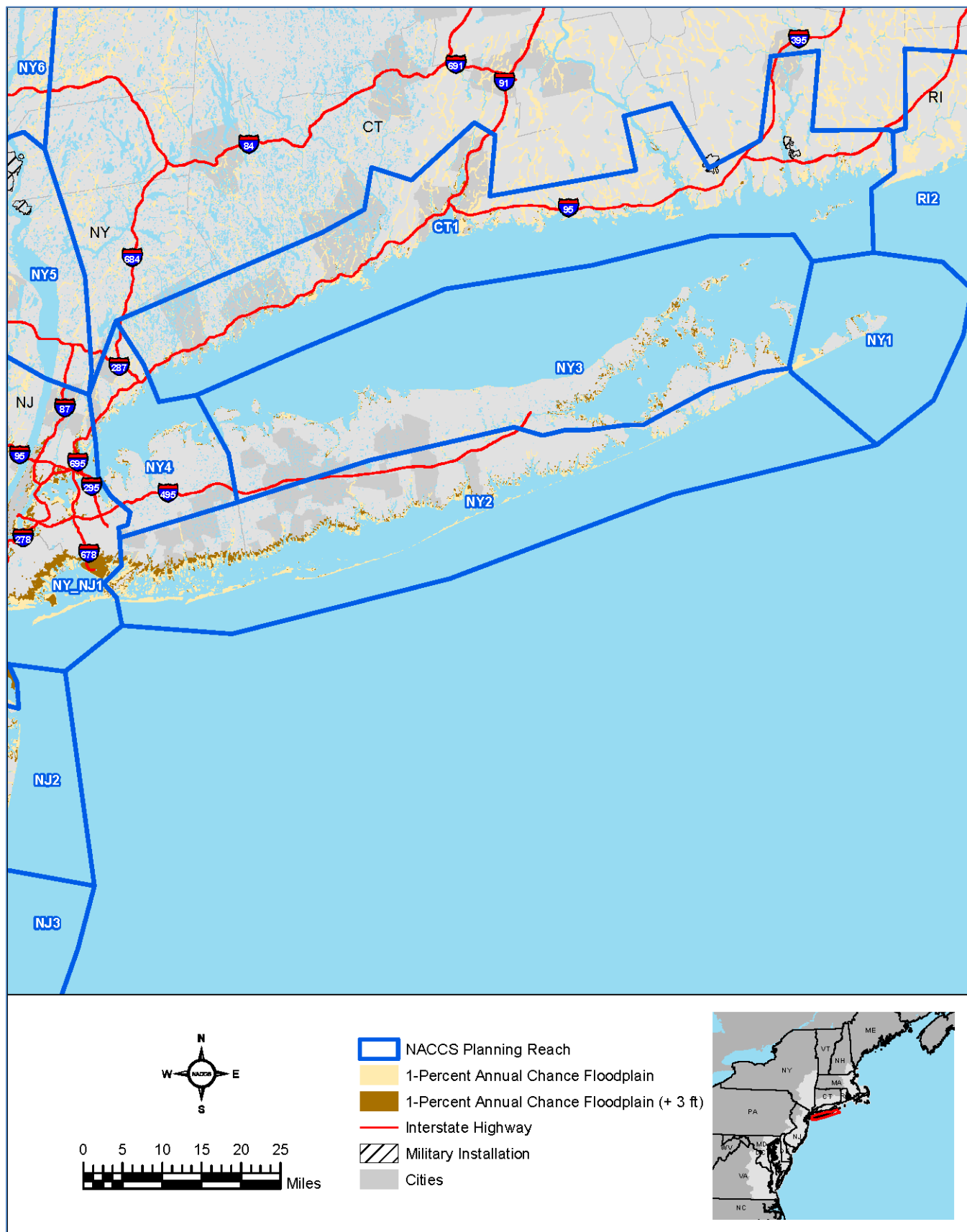


Figure Ilc-33: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NY2)

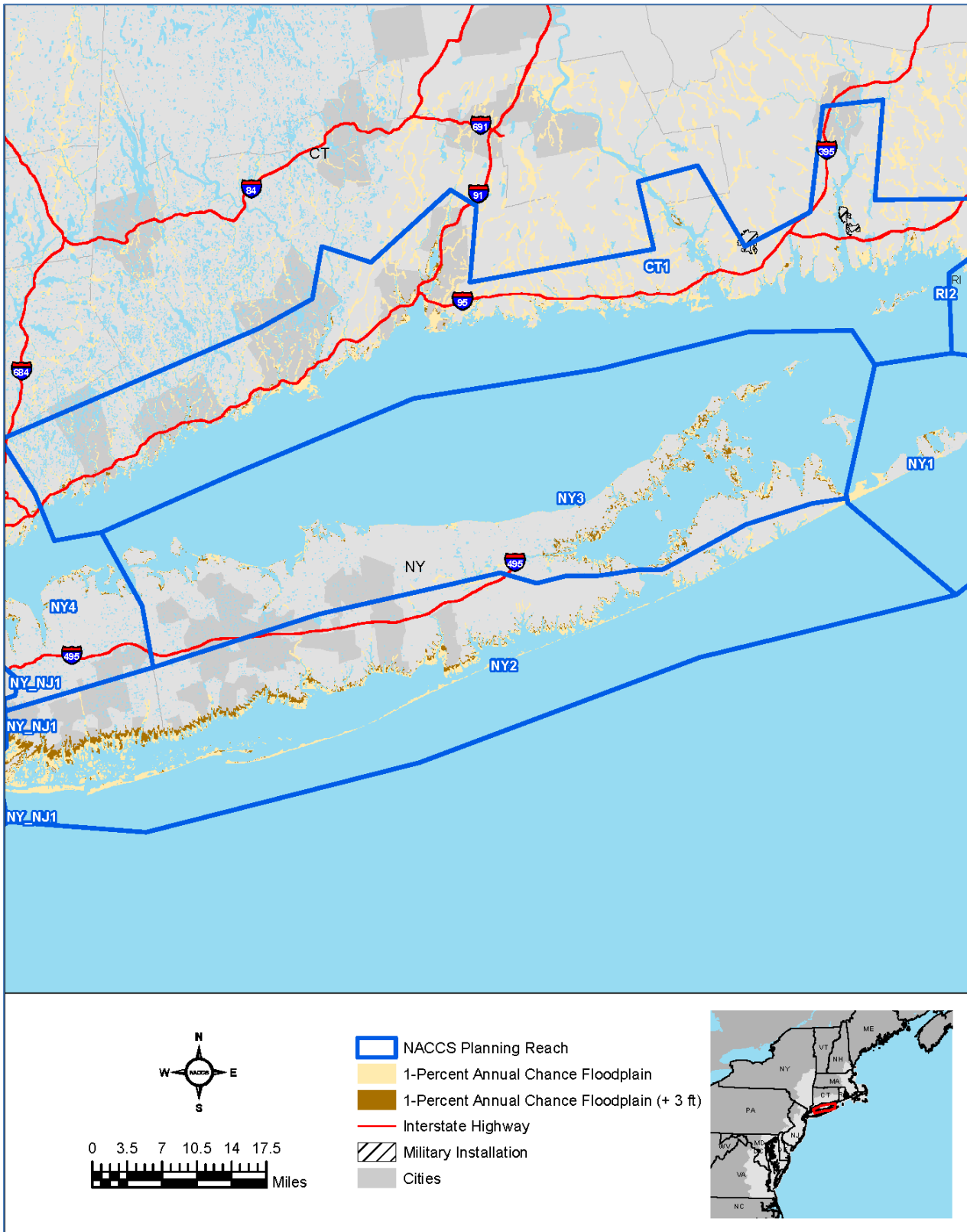


Figure IIc-34: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NY3)

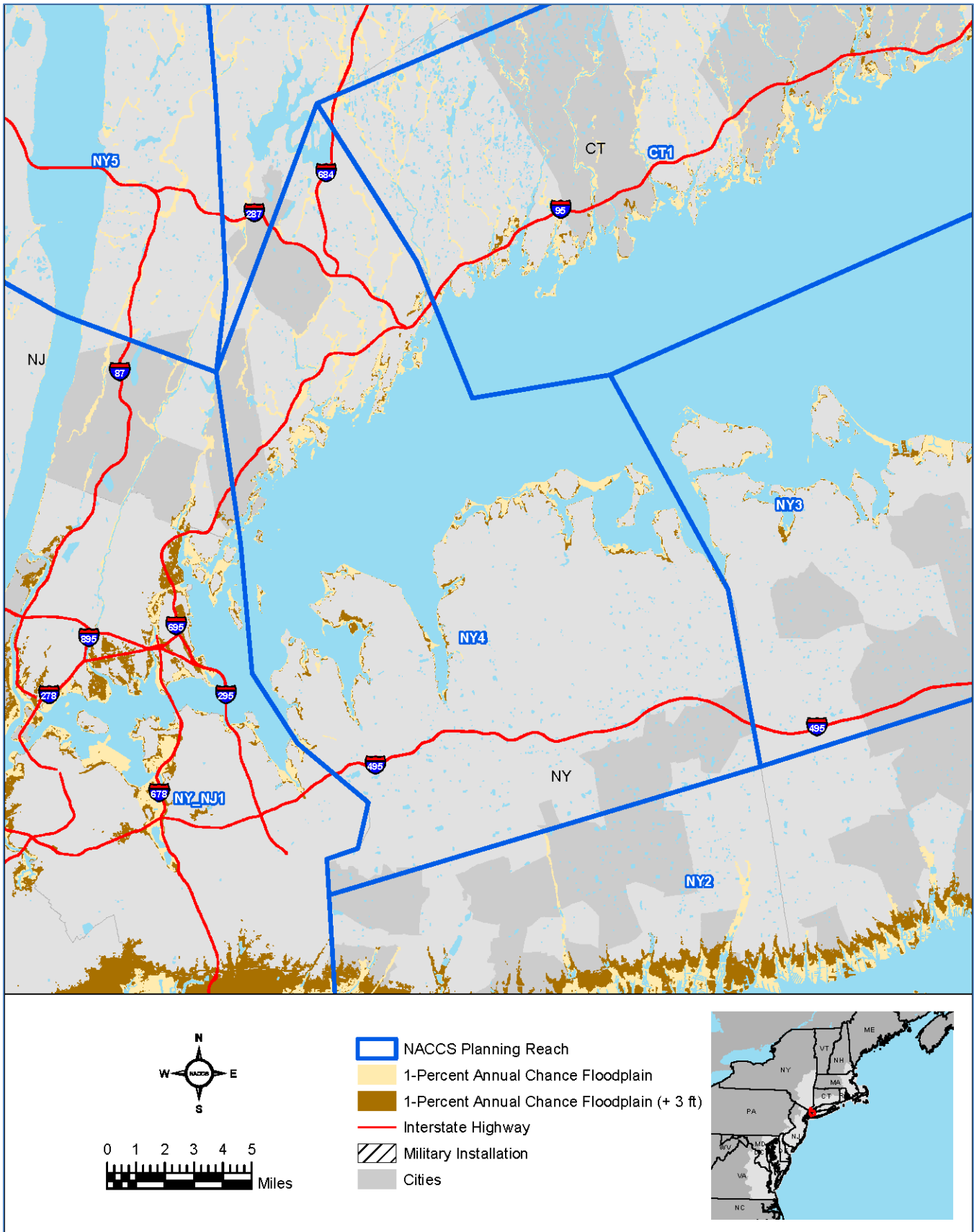


Figure Ilc-35: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NY4)

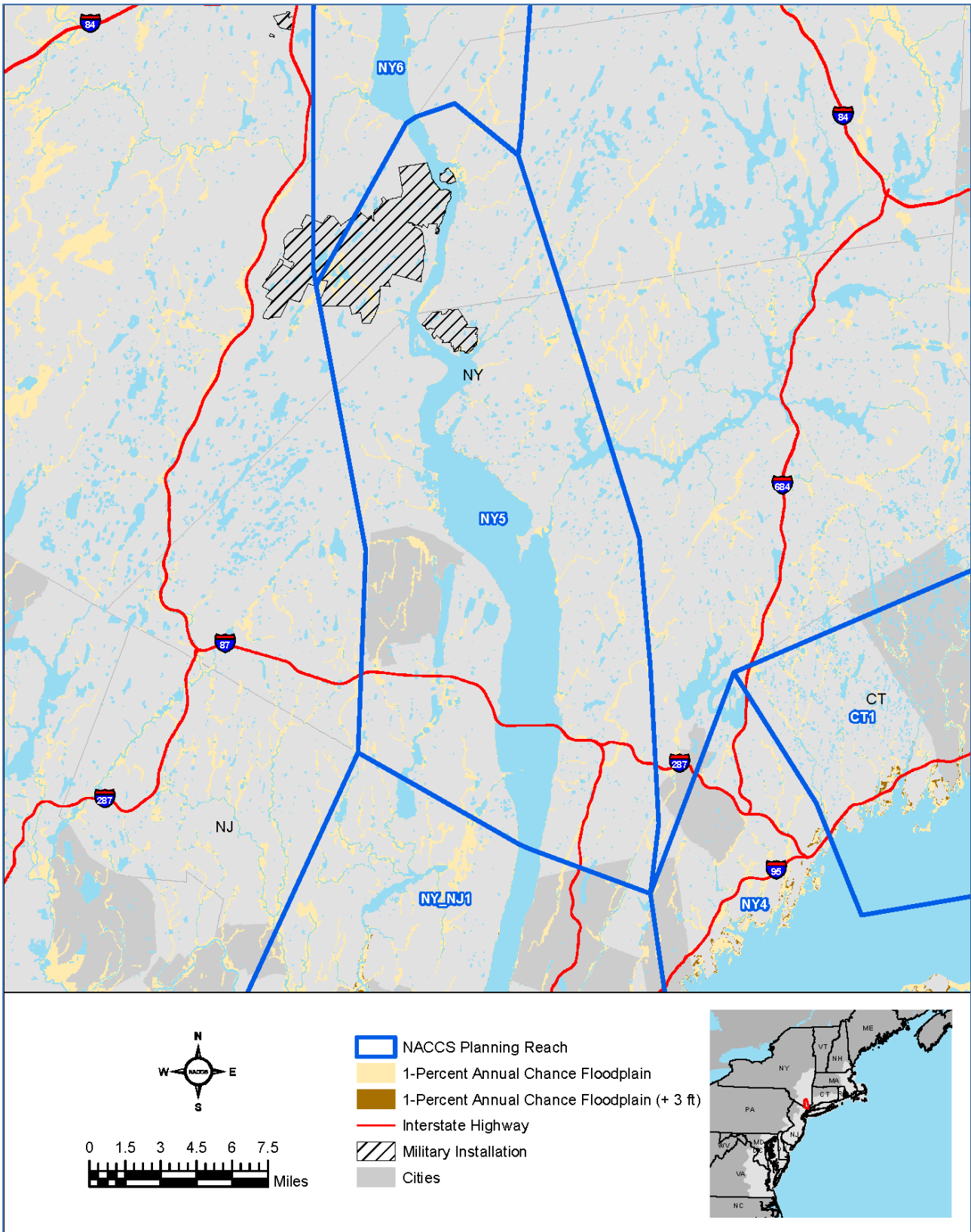


Figure Ilc-36: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NY5)

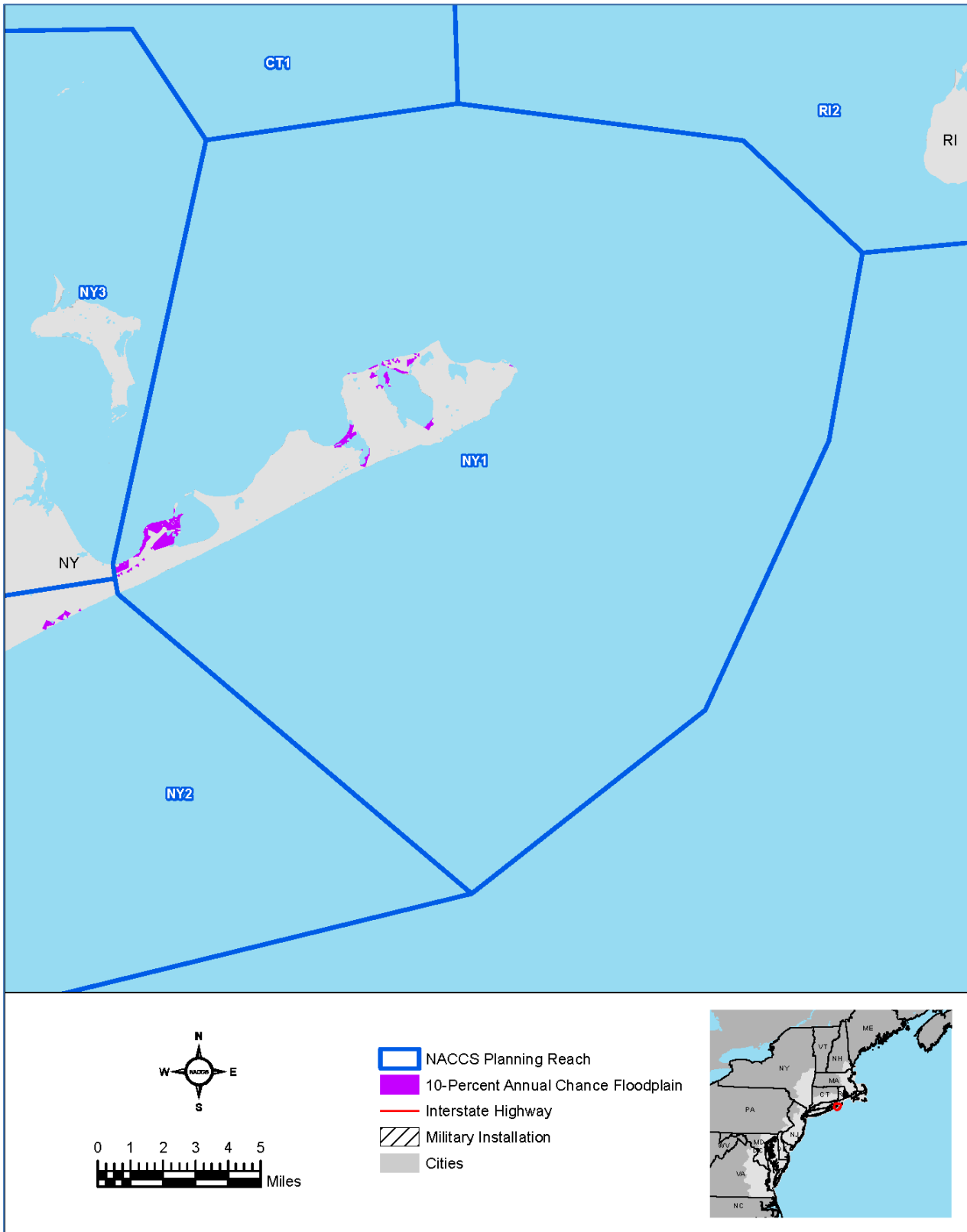


Figure IIc-38: Impacted Area 10-Percent Flood Water Surface (NY1)

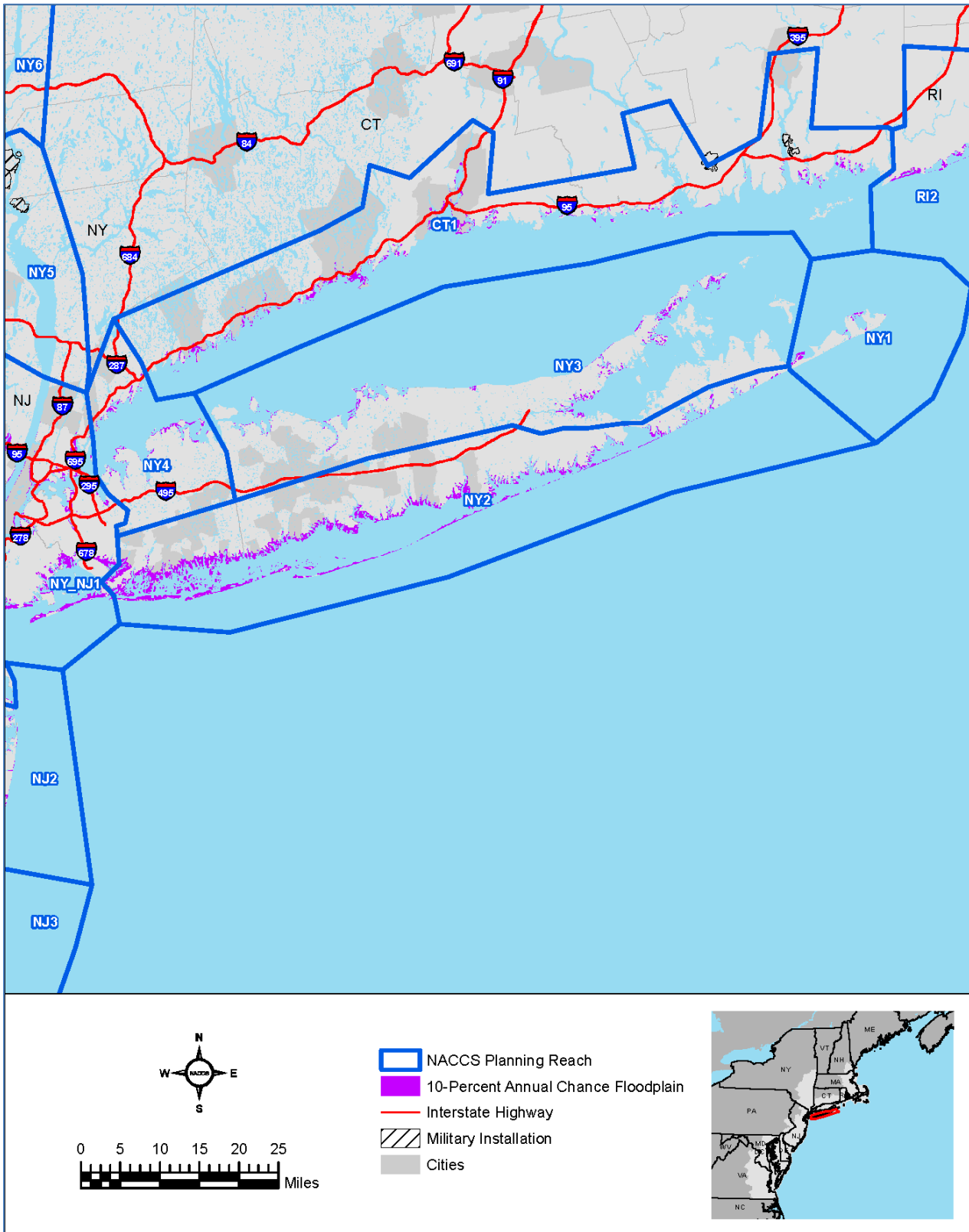


Figure IIc-39: Impacted Area 10-Percent Flood Water Surface (NY2)

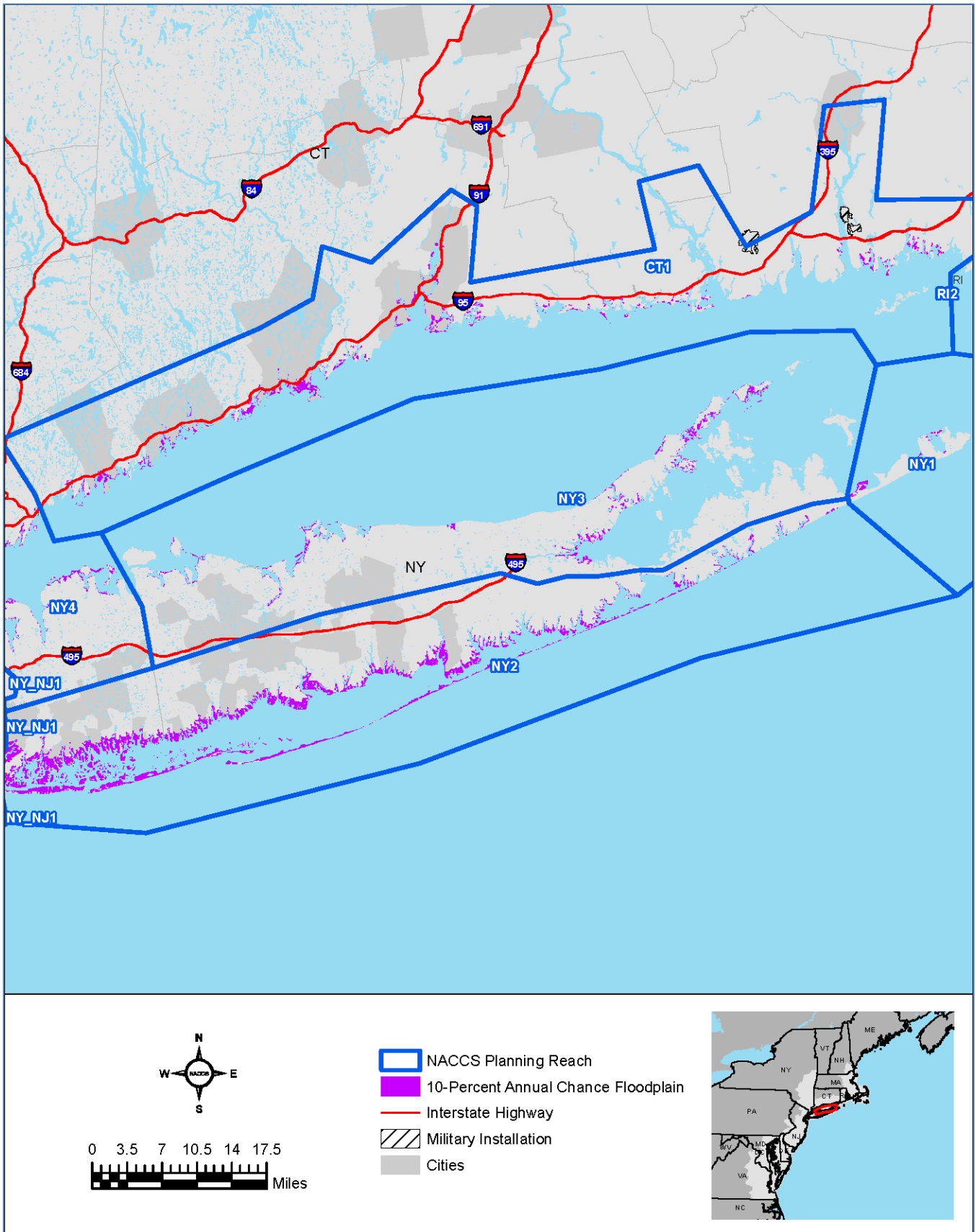


Figure Ilc-40: Impacted Area 10-Percent Flood Water Surface (NY3)

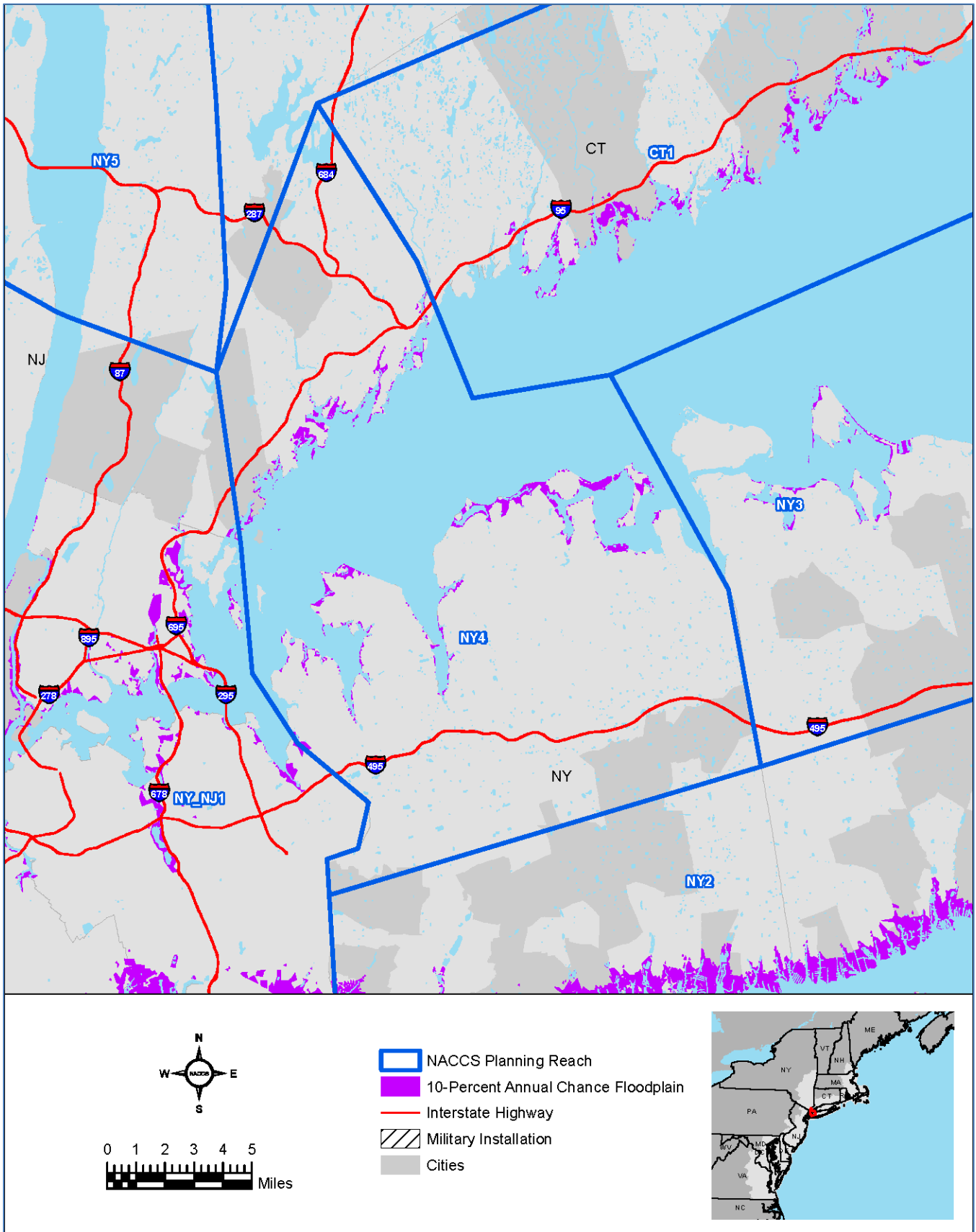


Figure Ilc-41: Impacted Area 10-Percent Flood Water Surface (NY4)

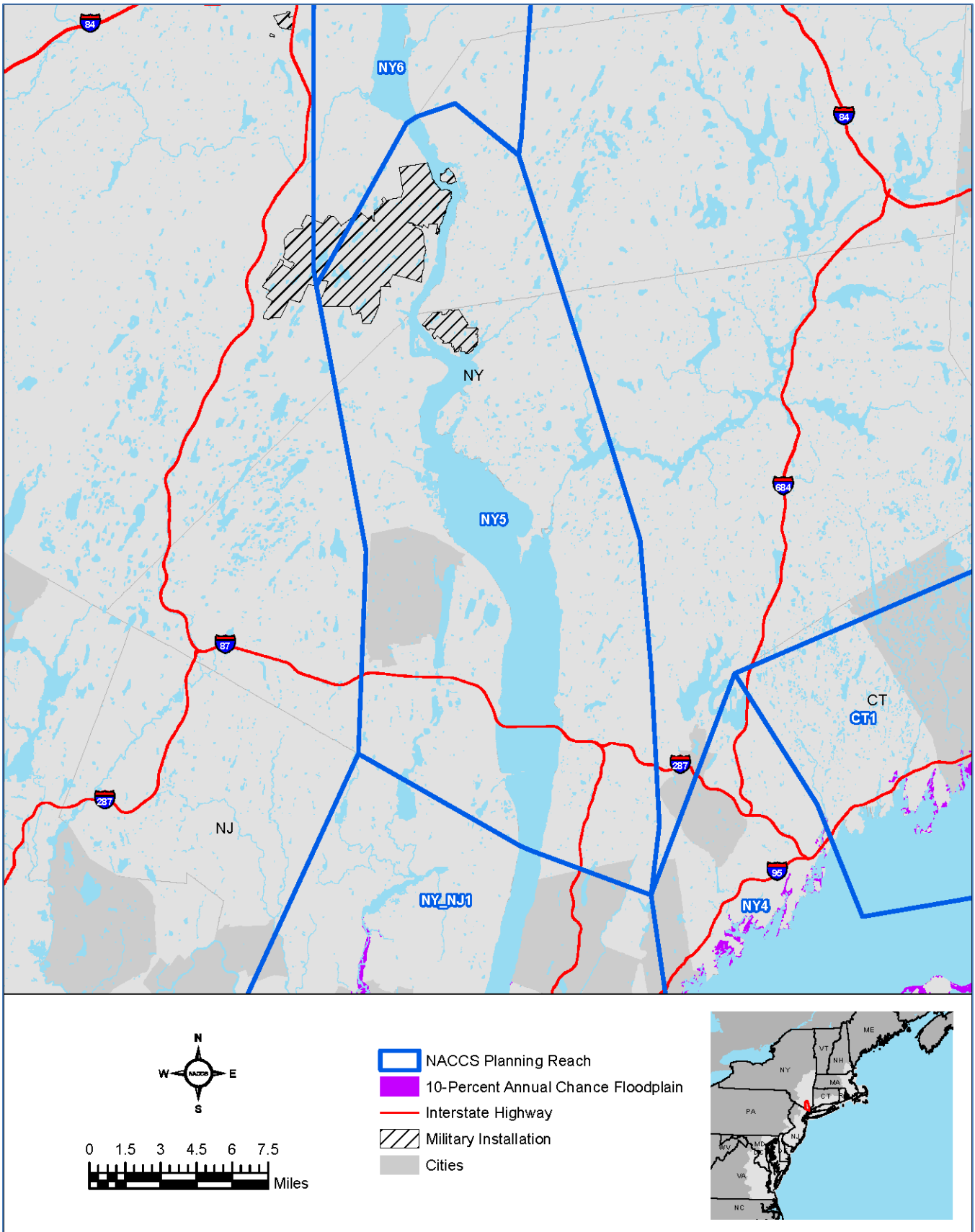


Figure Ilc-42: Impacted Area 10-Percent Flood Water Surface (NY5)

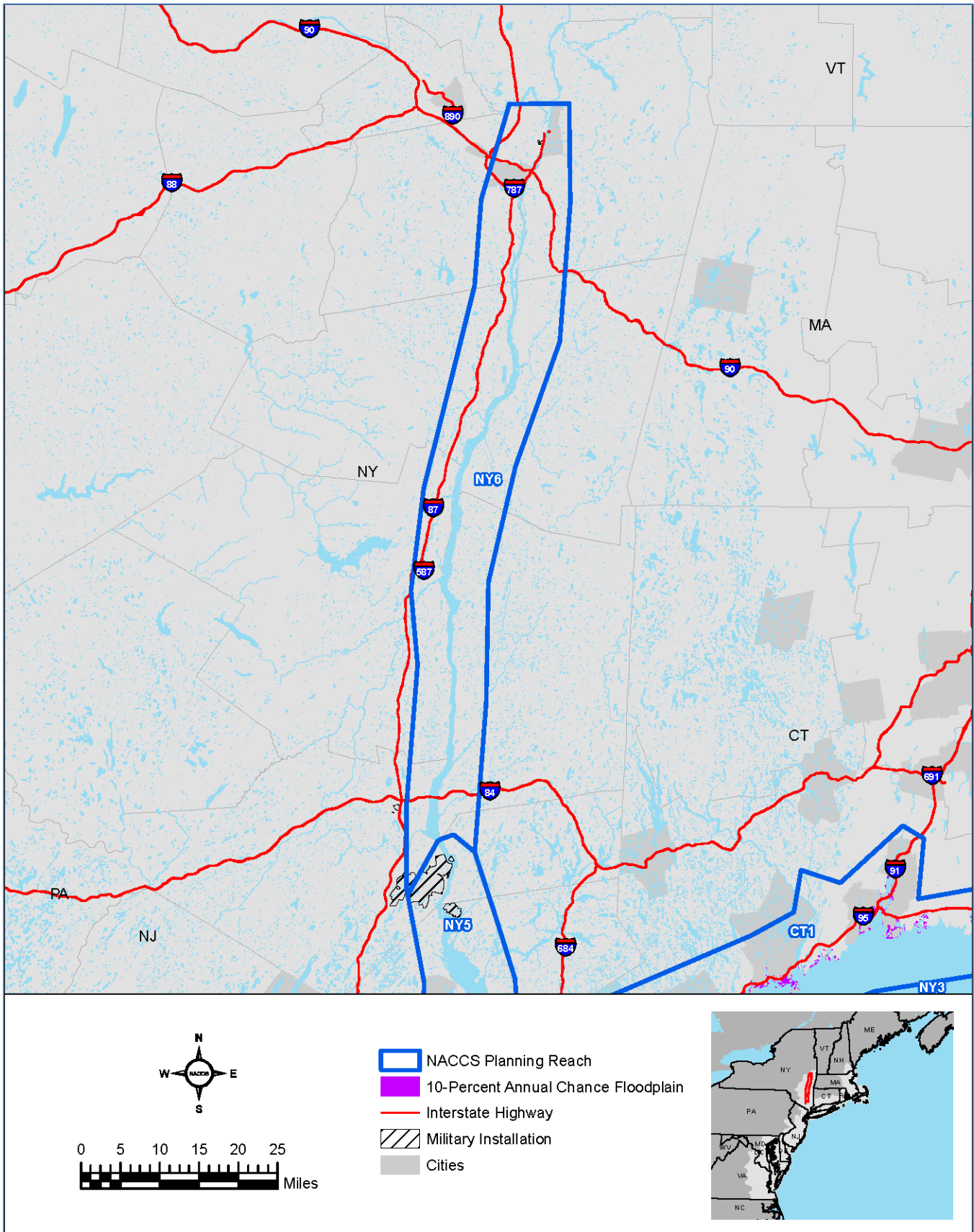


Figure Ilc-43: Impacted Area 10-Percent Flood Water Surface (NY6)

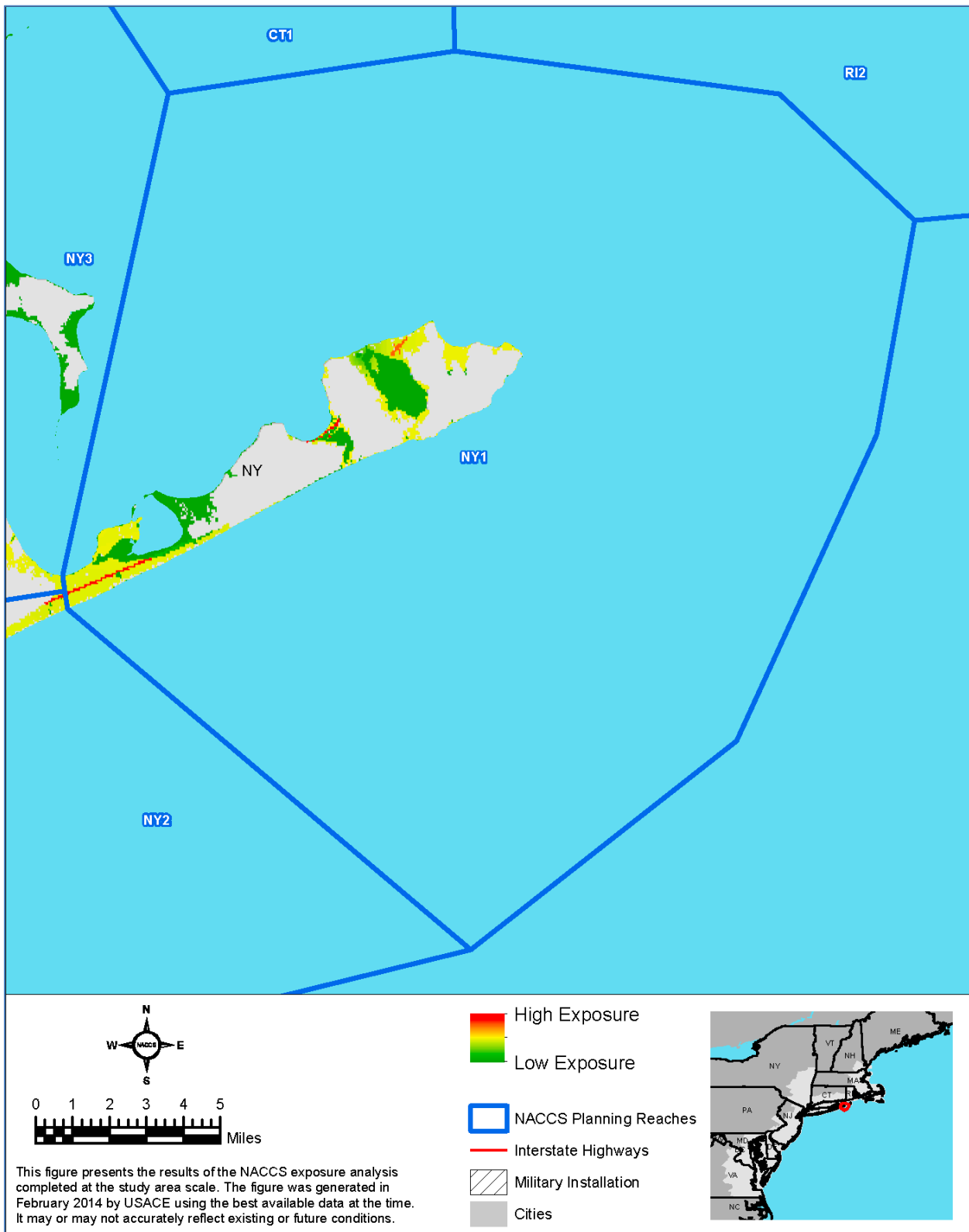
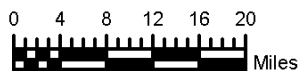
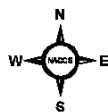
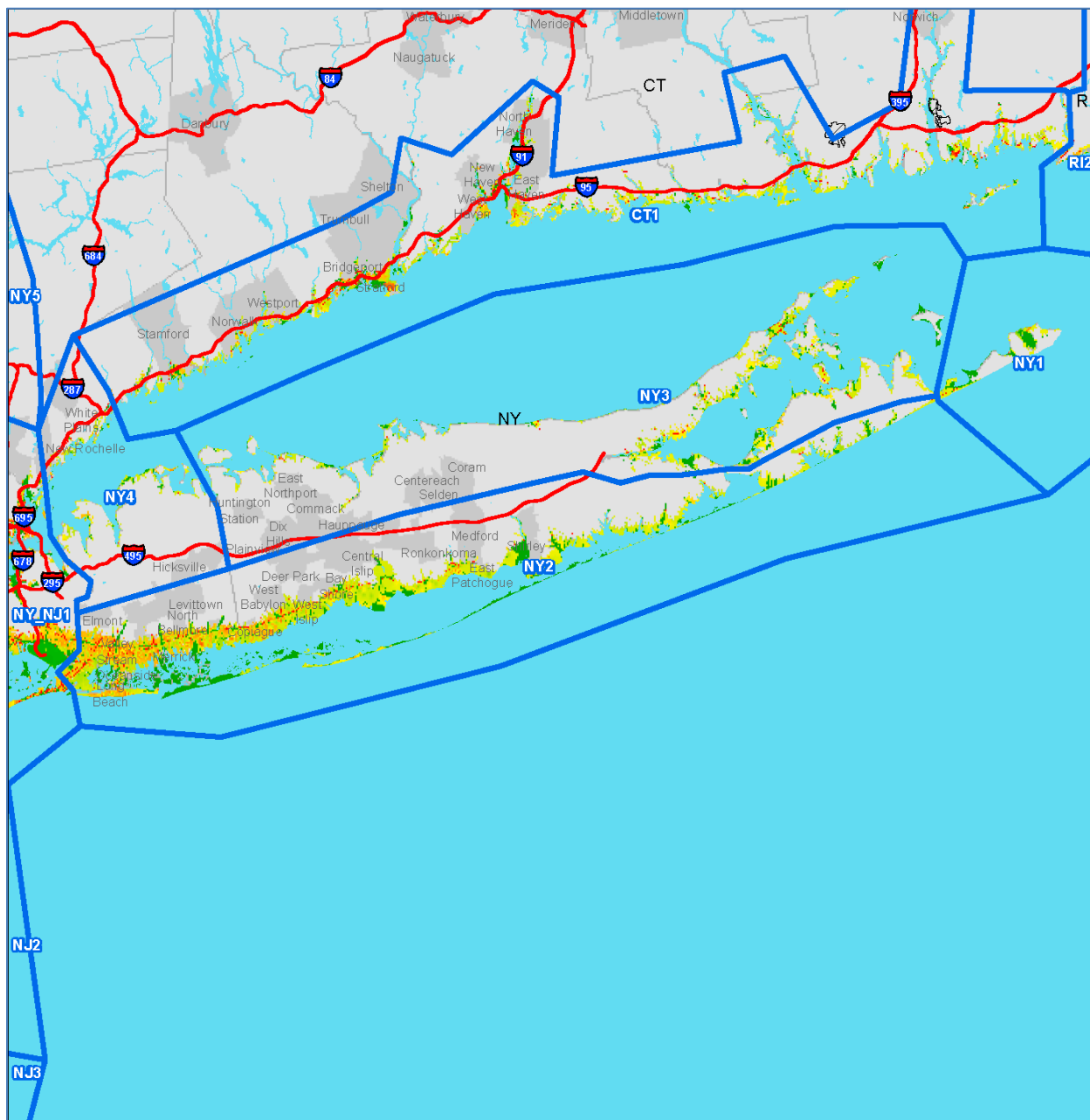


Figure 11c-44: Population and Infrastructure Exposure Index (NY1)



This figure presents the results of the NACCS exposure analysis completed at the study area scale. The figure was generated in February 2014 by USACE using the best available data at the time. It may or may not accurately reflect existing or future conditions.

-  High Exposure
-  Low Exposure
-  NACCS Planning Reaches
-  Interstate Highways
-  Military Installation
-  Cities

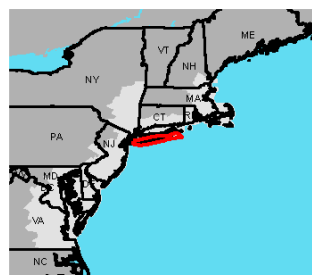


Figure 11c-45: Population and Infrastructure Exposure Index (NY2)



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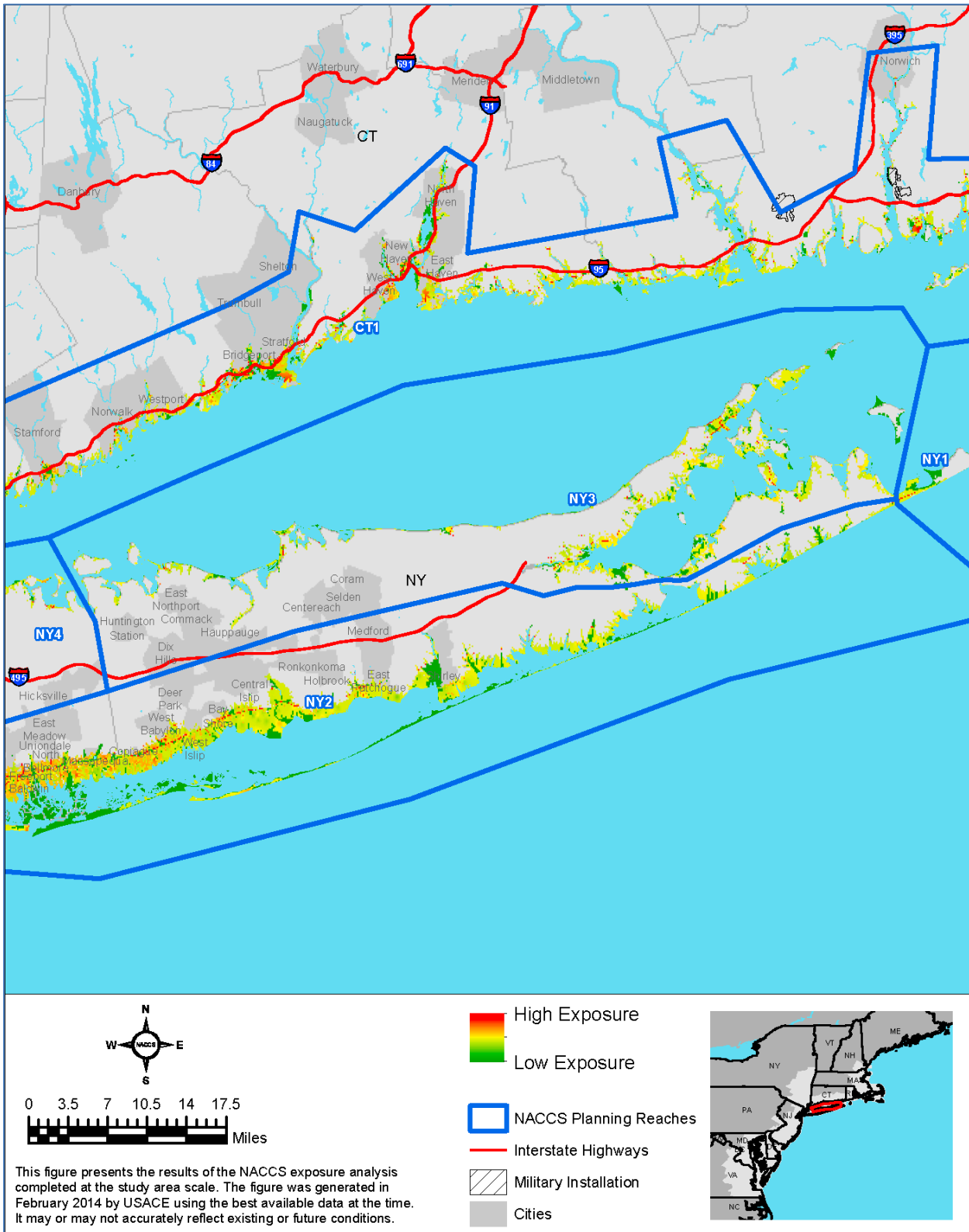


Figure 11c-46: Population and Infrastructure Exposure Index (NY3)

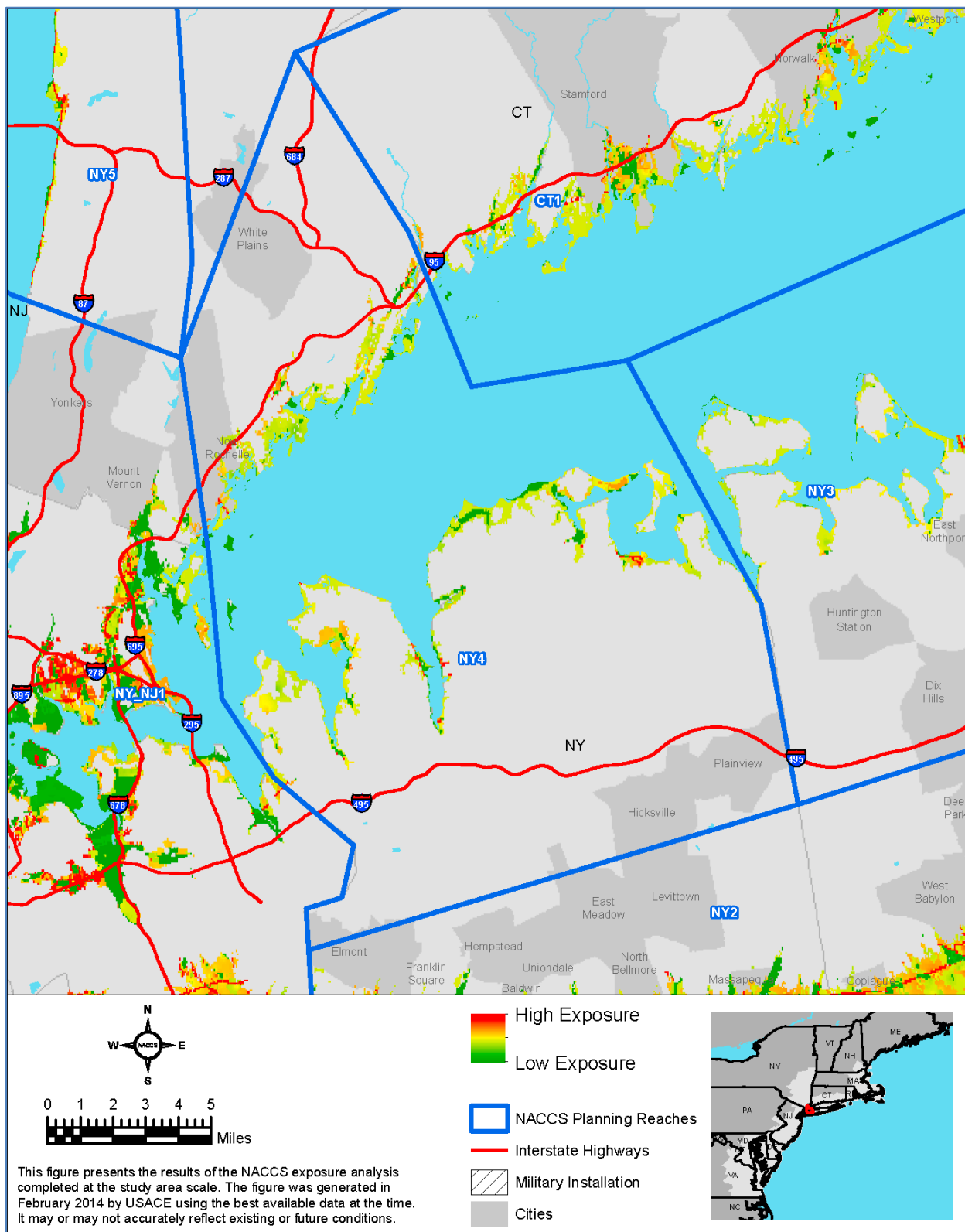


Figure Ilc-47: Population and Infrastructure Exposure Index (NY4)

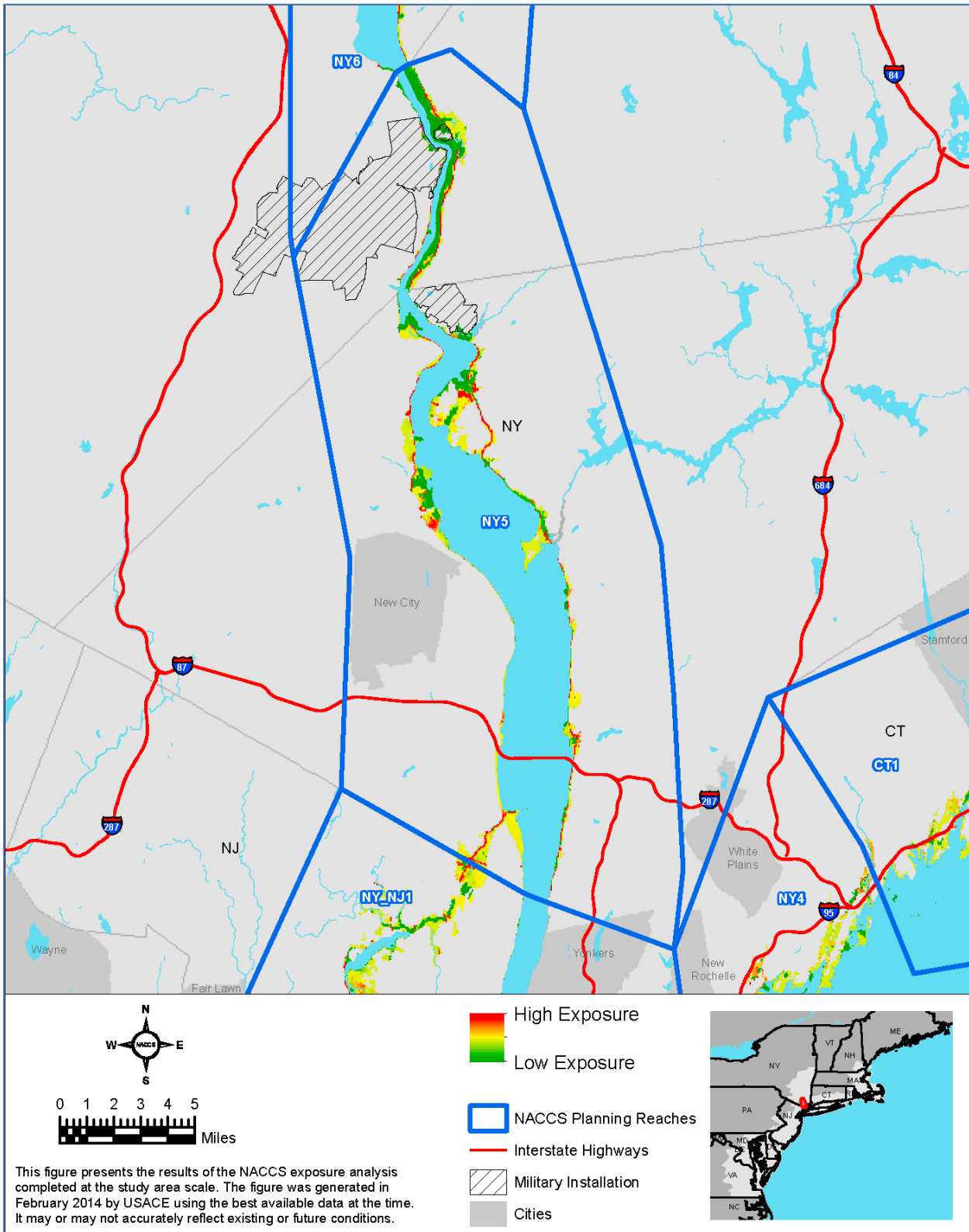


Figure 11c-48: Population and Infrastructure Exposure Index (NY5)

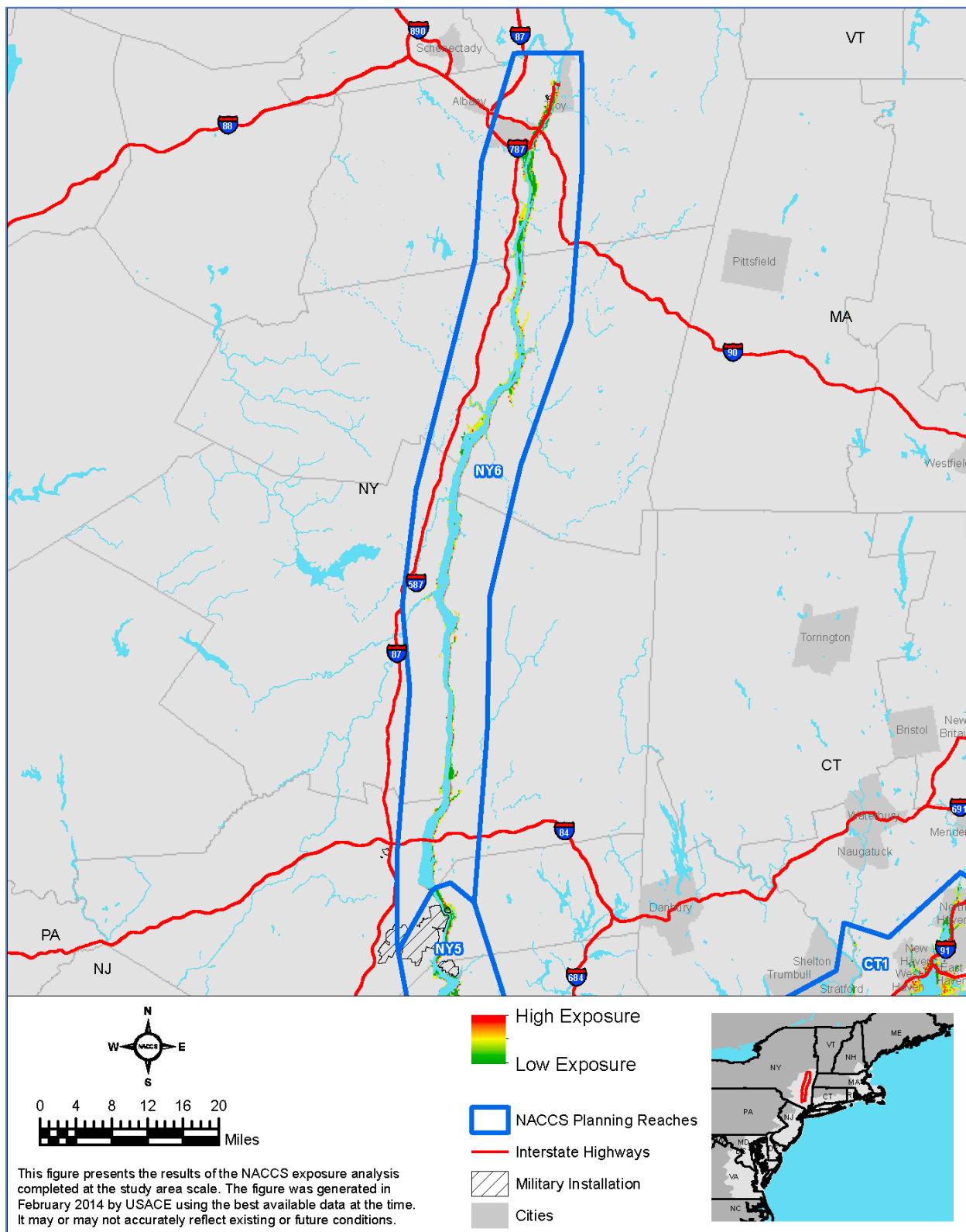


Figure 11c-49: Population and Infrastructure Exposure Index (NY6)

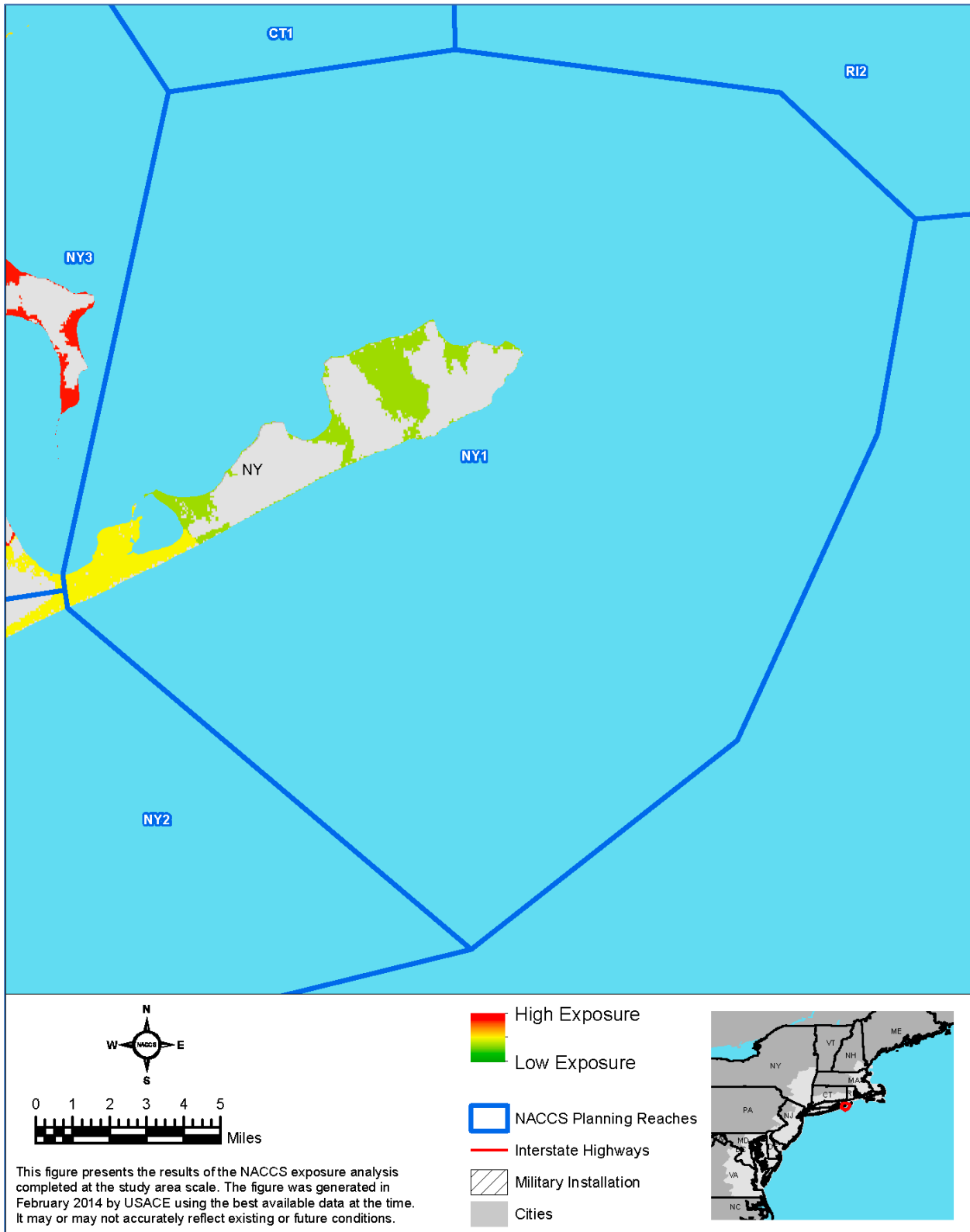
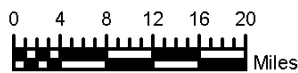
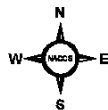
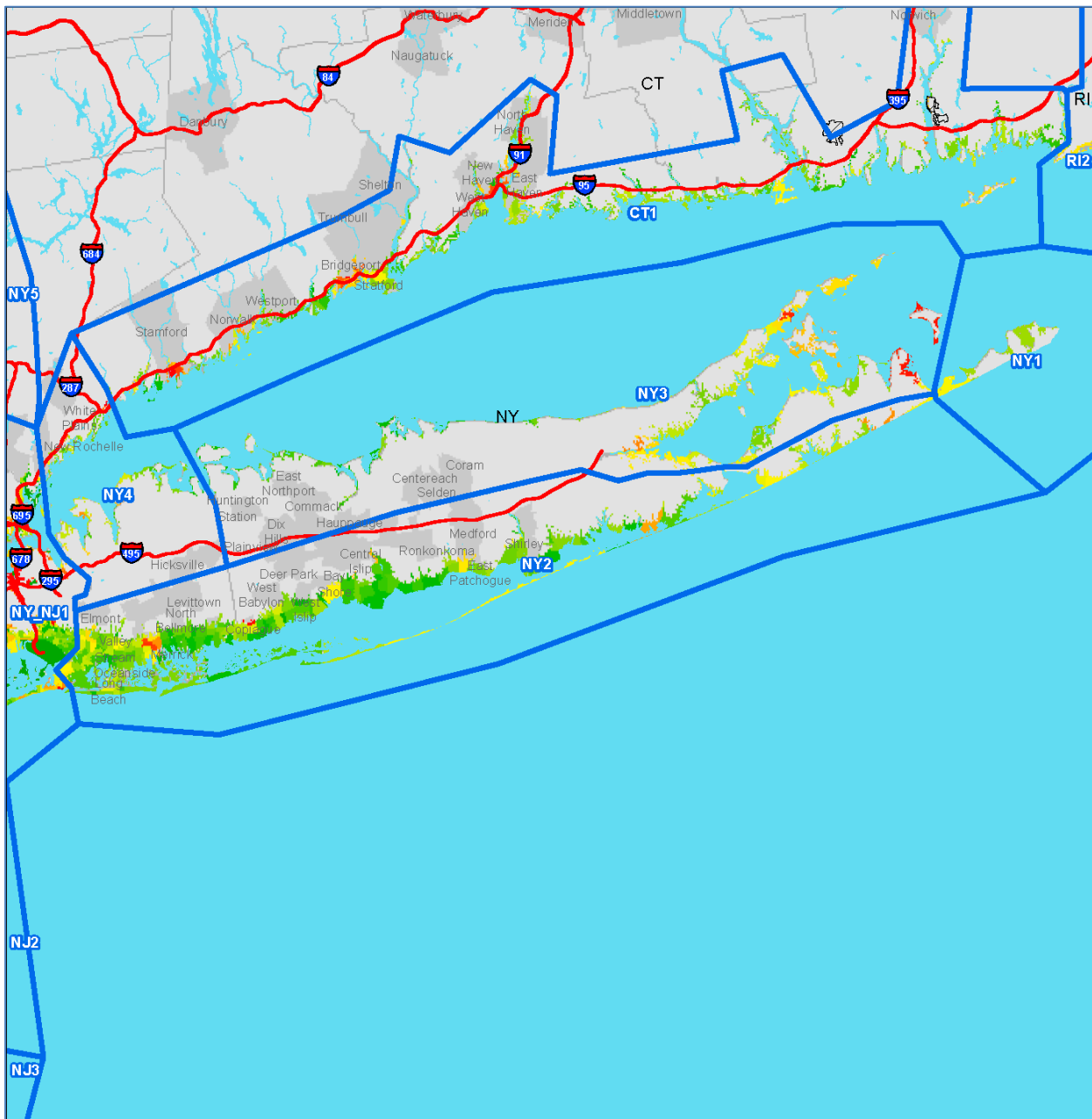



Figure 11c-50: Social Vulnerability Characterization Exposure Index (NY1)



This figure presents the results of the NACCS exposure analysis completed at the study area scale. The figure was generated in February 2014 by USACE using the best available data at the time. It may or may not accurately reflect existing or future conditions.

-  High Exposure
-  Low Exposure
-  NACCS Planning Reaches
-  Interstate Highways
-  Military Installation
-  Cities

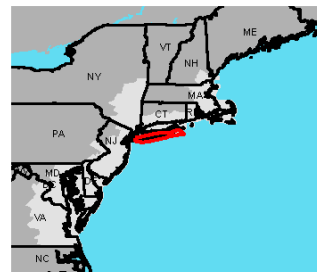


Figure Ilc-51: Social Vulnerability Characterization Exposure Index (NY2)

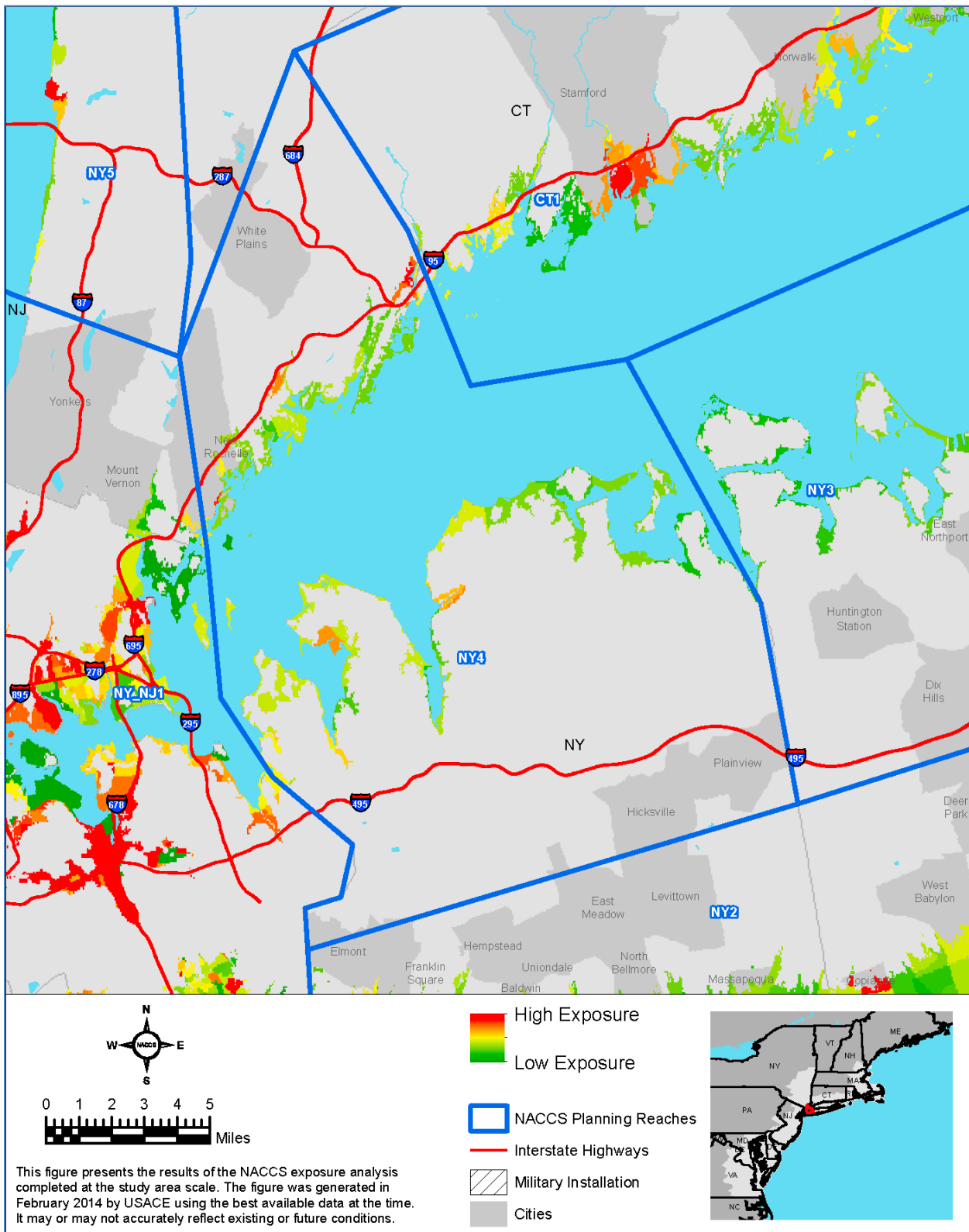


Figure Ilc-53: Social Vulnerability Characterization Exposure Index (NY4)

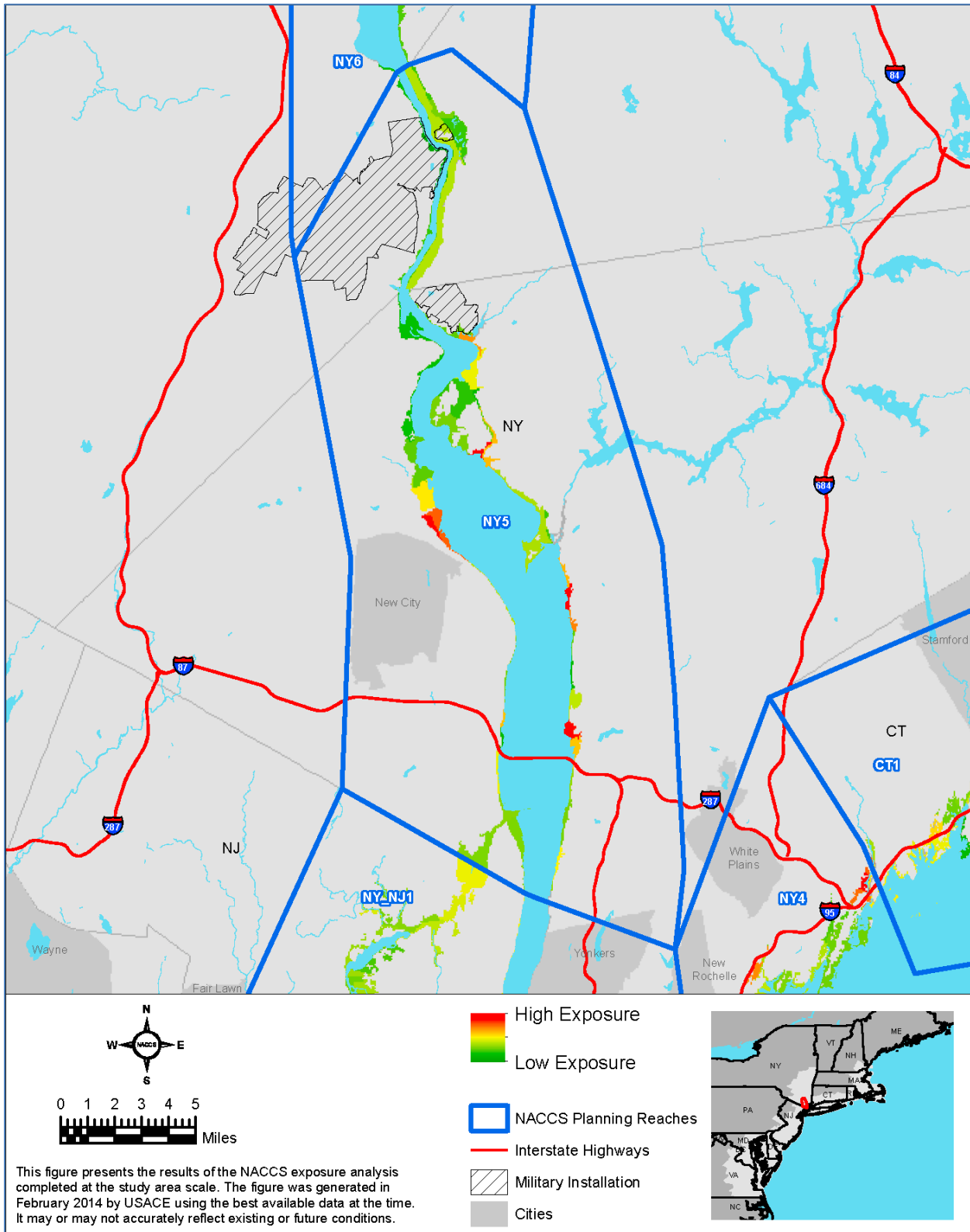


Figure 11c-54: Social Vulnerability Characterization Exposure Index (NY5)

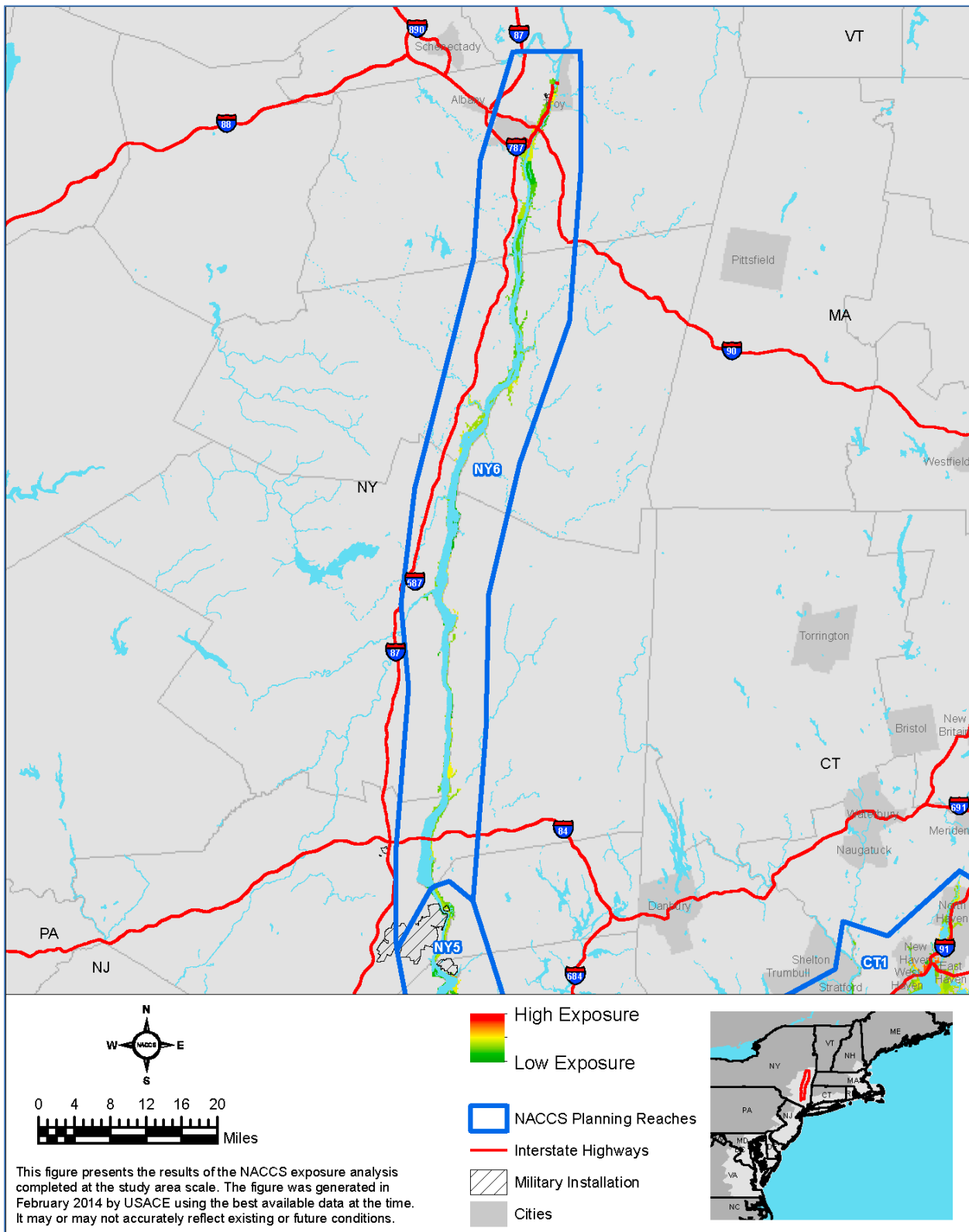


Figure 11c-55: Social Vulnerability Characterization Exposure Index (NY6)

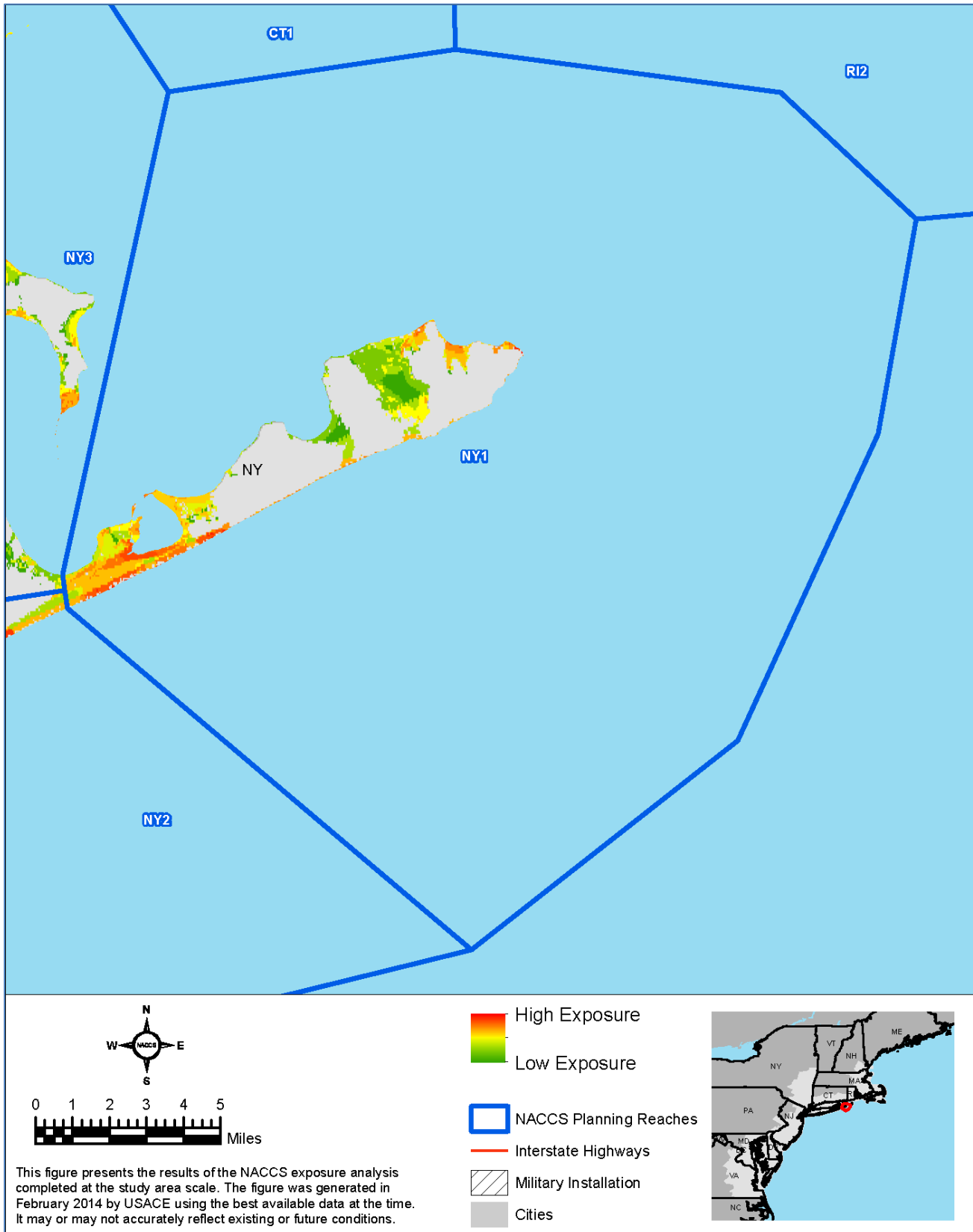


Figure Ilc-56: Environmental and Cultural Resources Exposure Index (NY1)

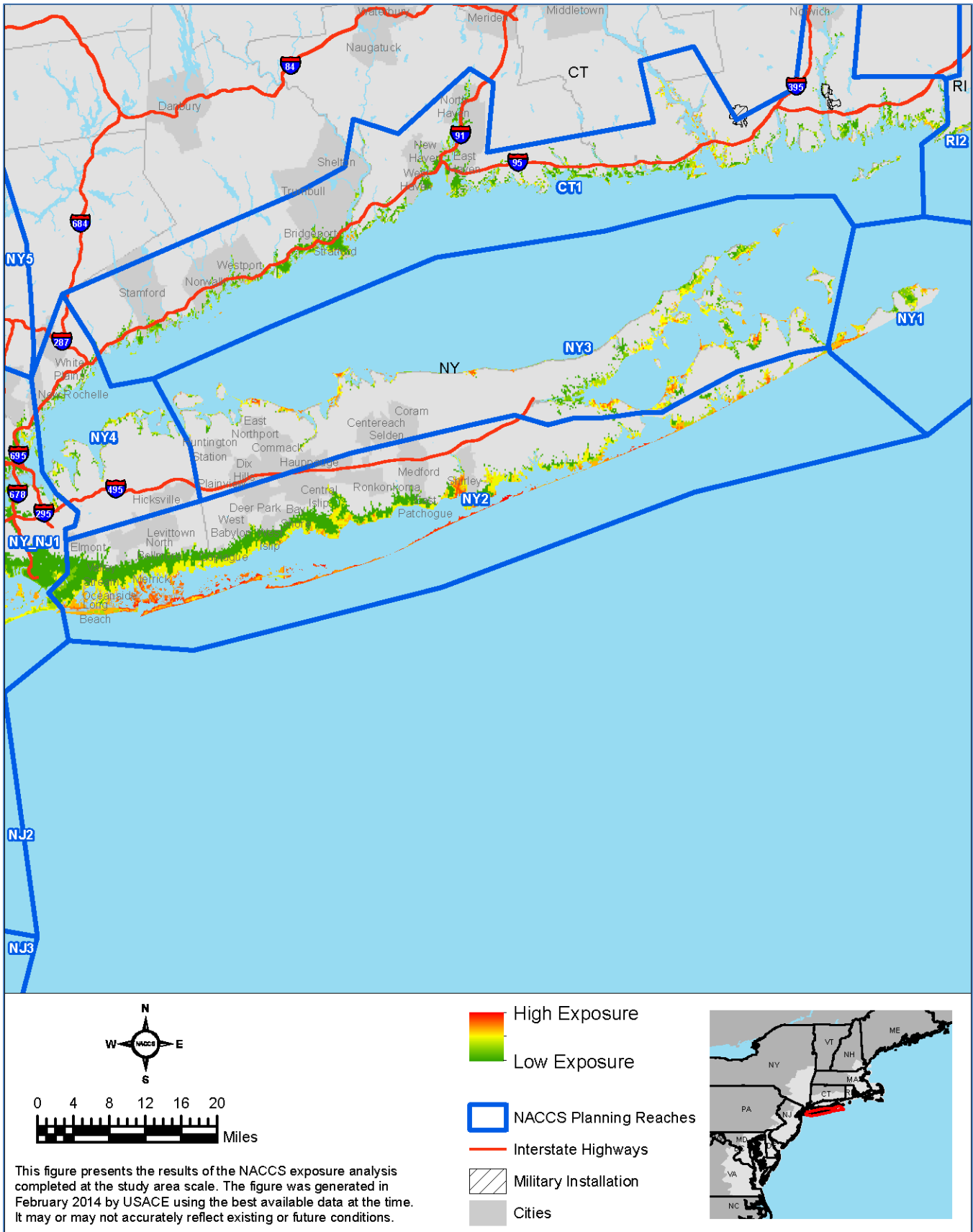


Figure 11c-57: Environmental and Cultural Resources Exposure Index (NY2)



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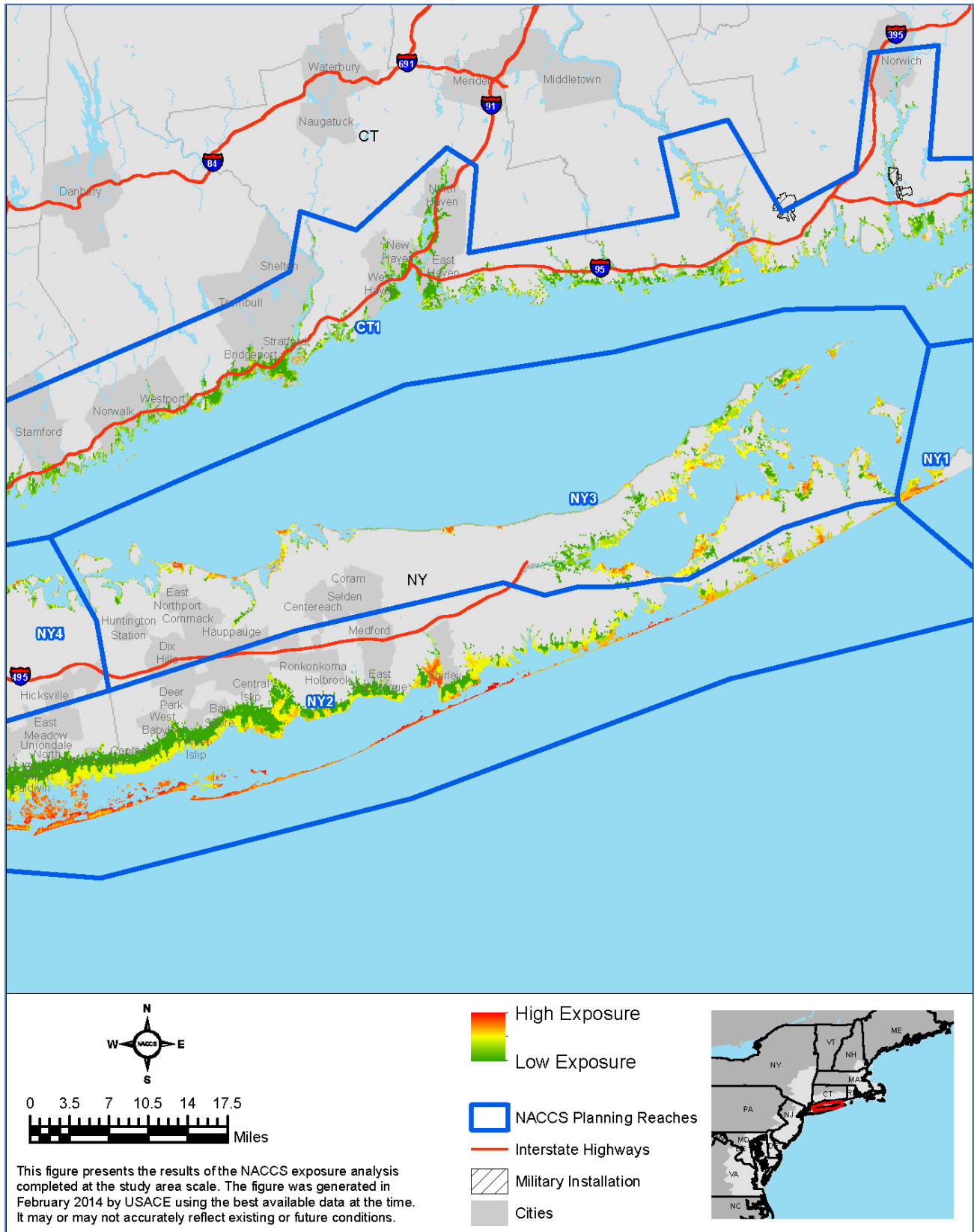


Figure 11c-58: Environmental and Cultural Resources Exposure Index (NY3)

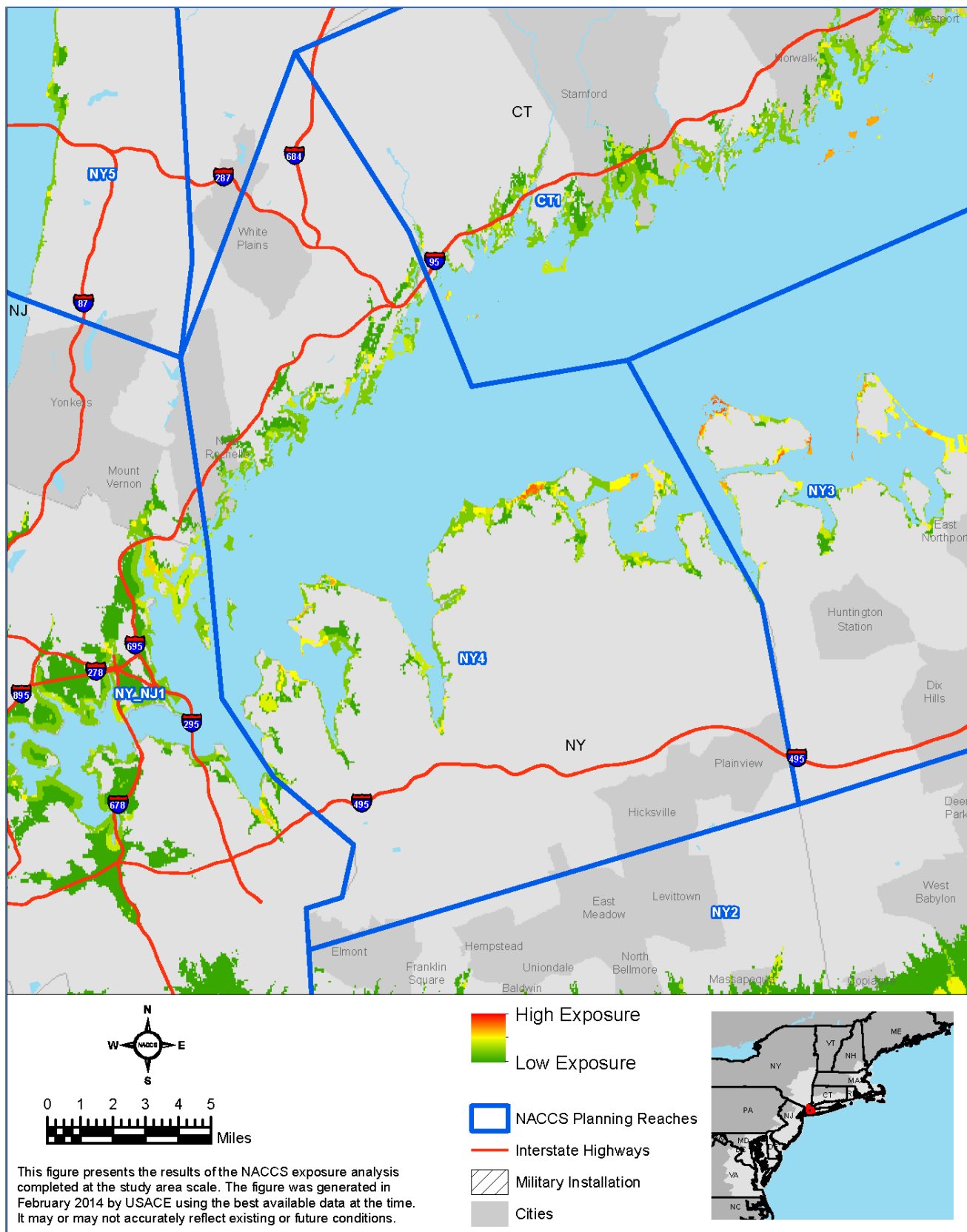


Figure 11c-59: Environmental and Cultural Resources Exposure Index (NY4)

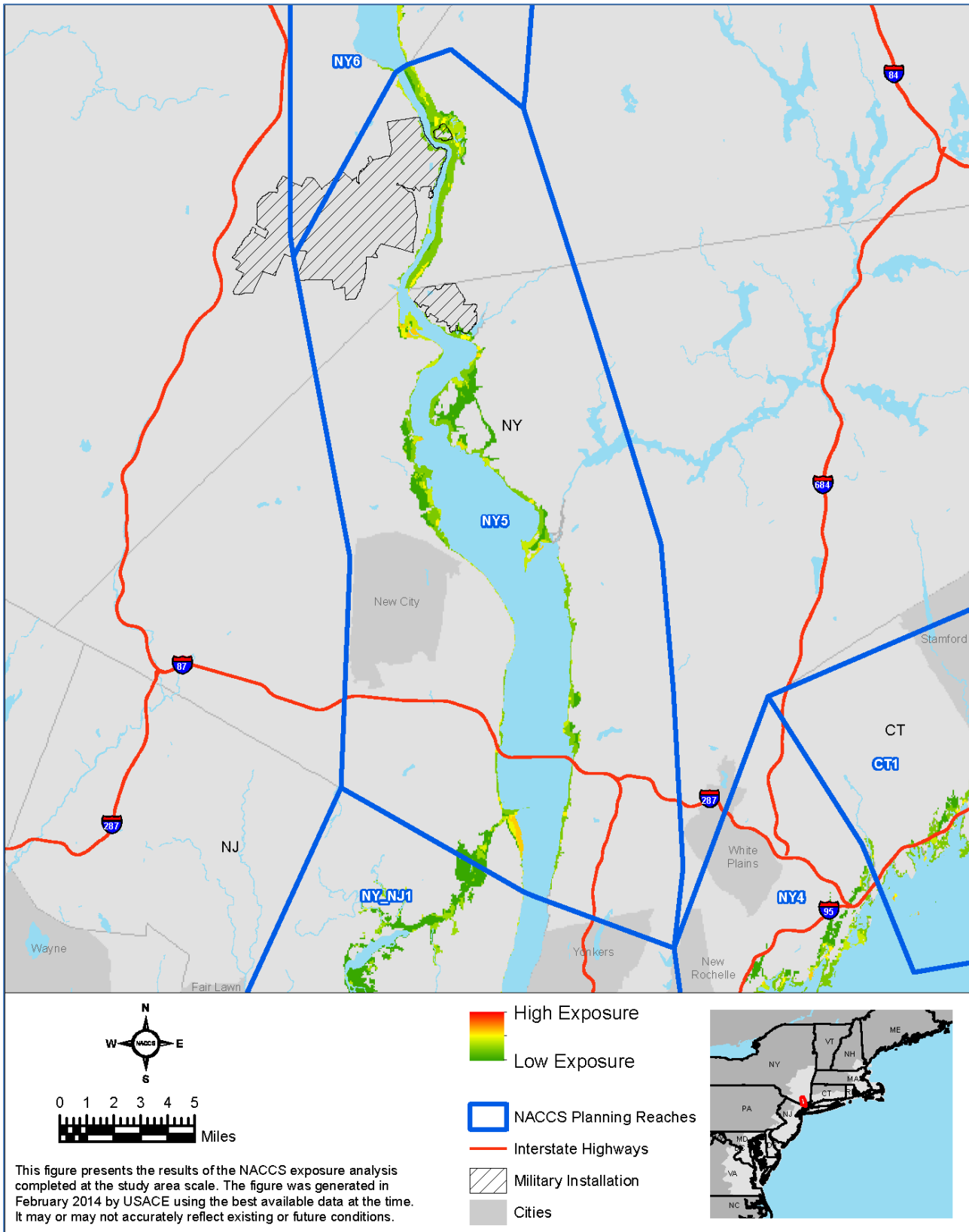


Figure IIc-60: Environmental and Cultural Resources Exposure Index (NY5)

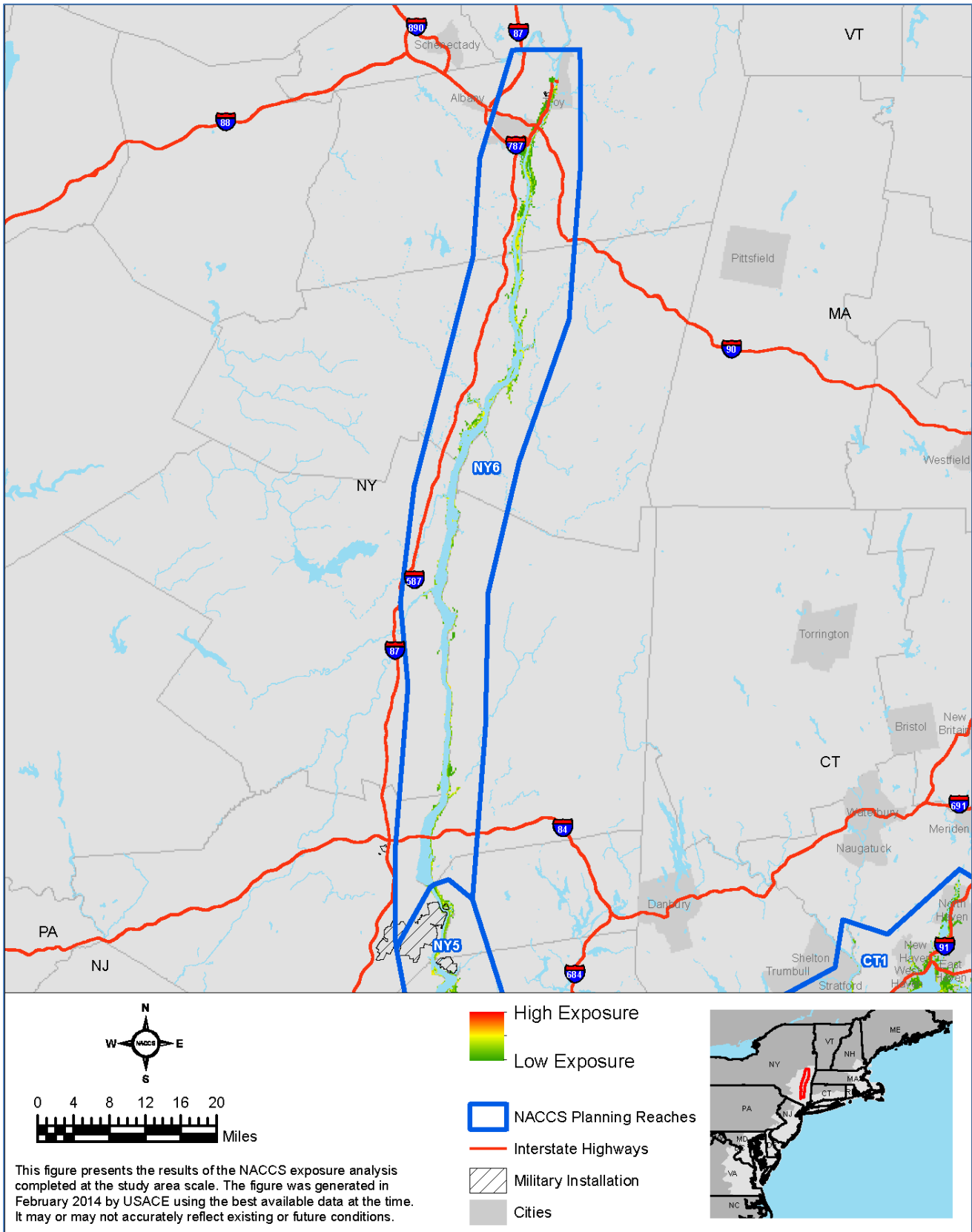


Figure Ilc-61: Environmental and Cultural Resources Exposure Index (NY6)

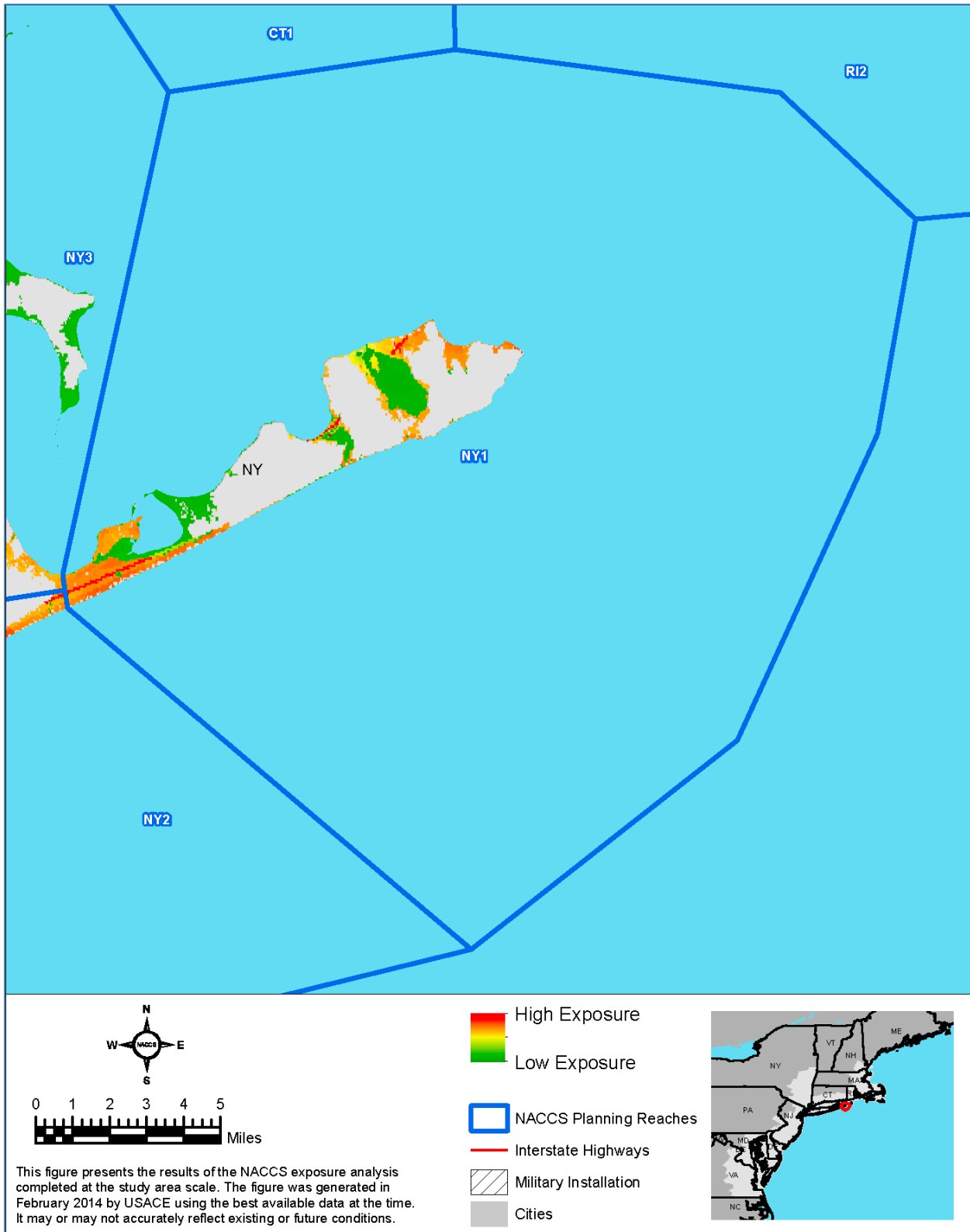


Figure 11c-62: Composite Exposure Index (NY1)

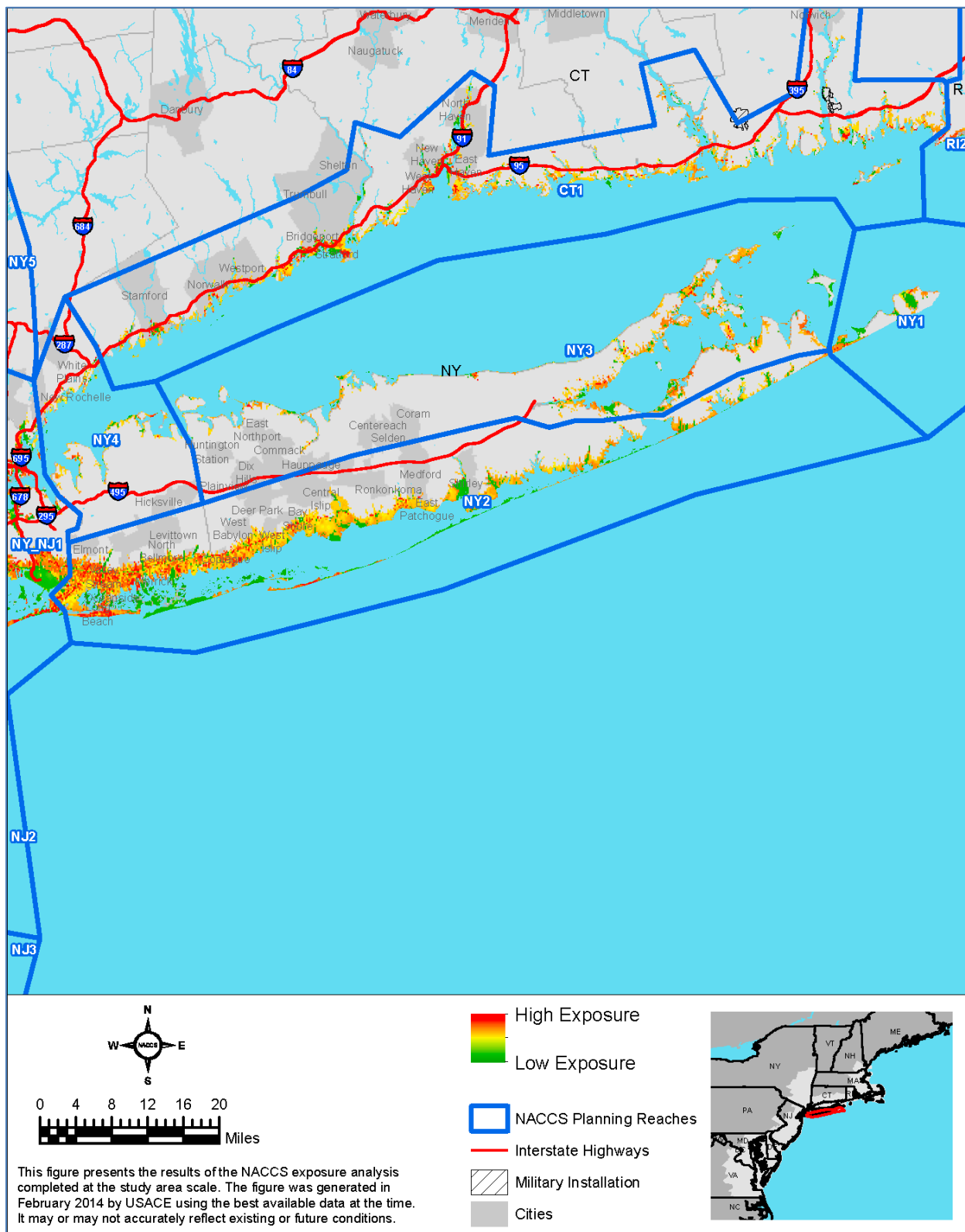


Figure Ilc-63: Composite Exposure Index (NY2)



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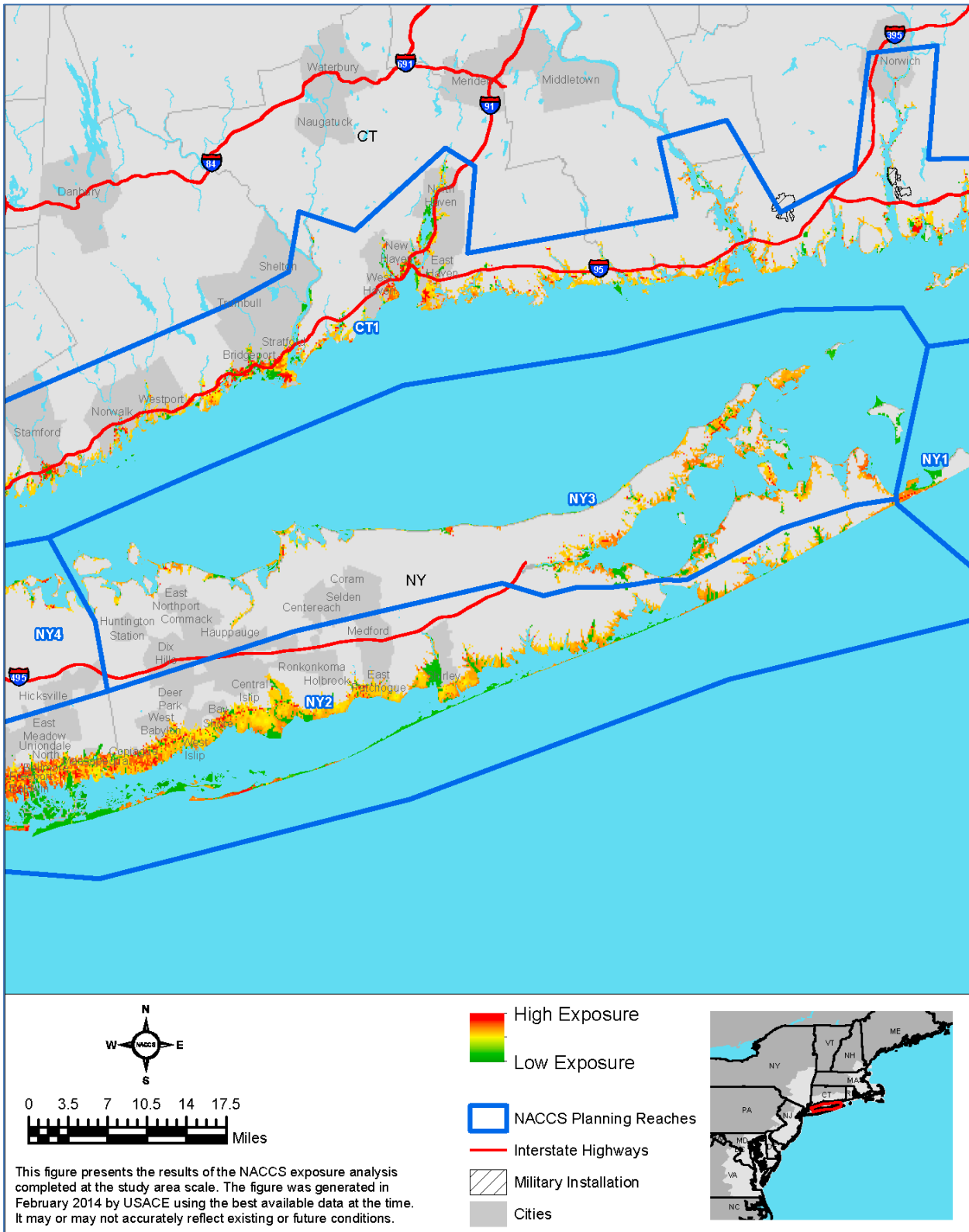


Figure 11c-64: Composite Exposure Index (NY3)

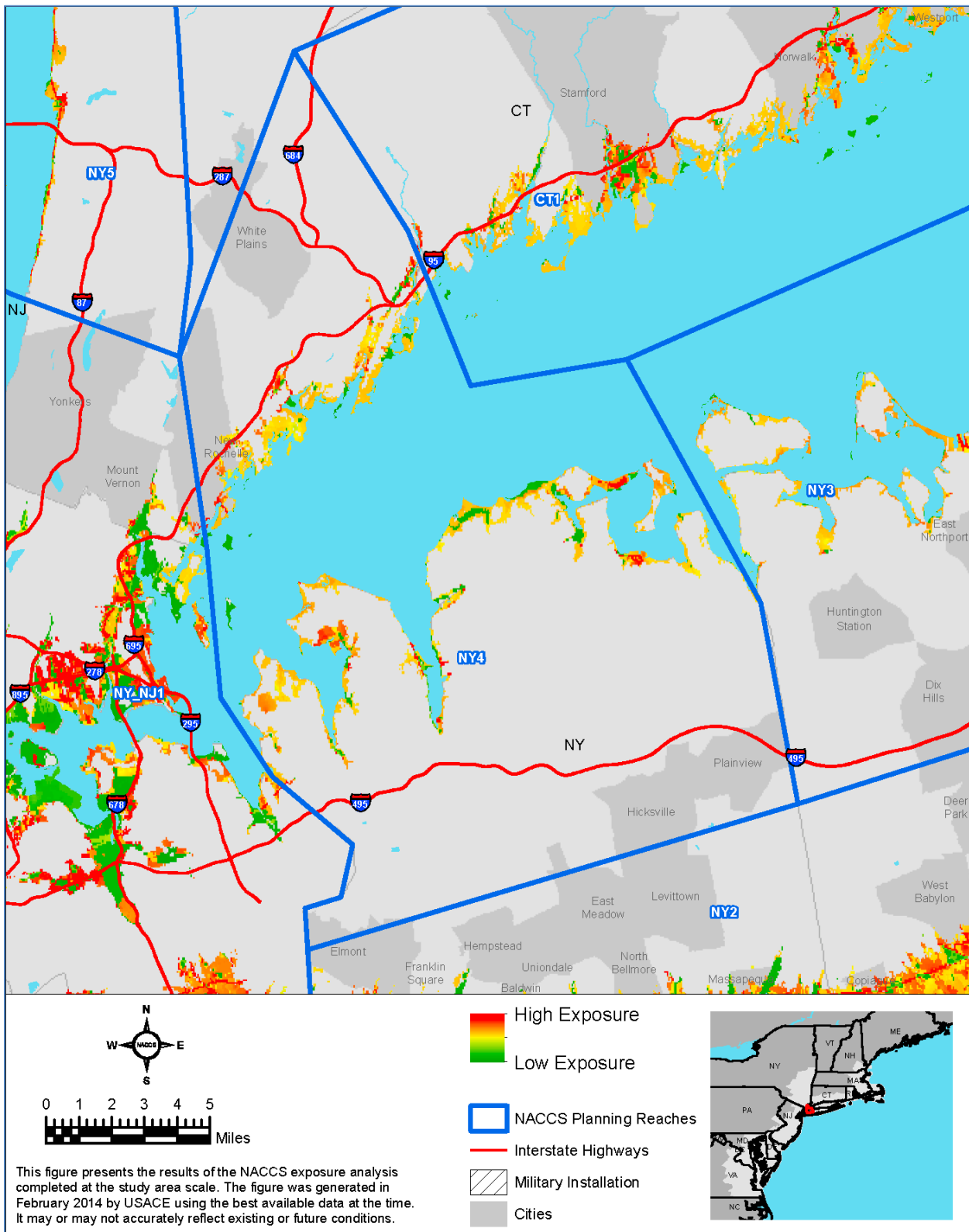


Figure 11c-65: Composite Exposure Index (NY4)



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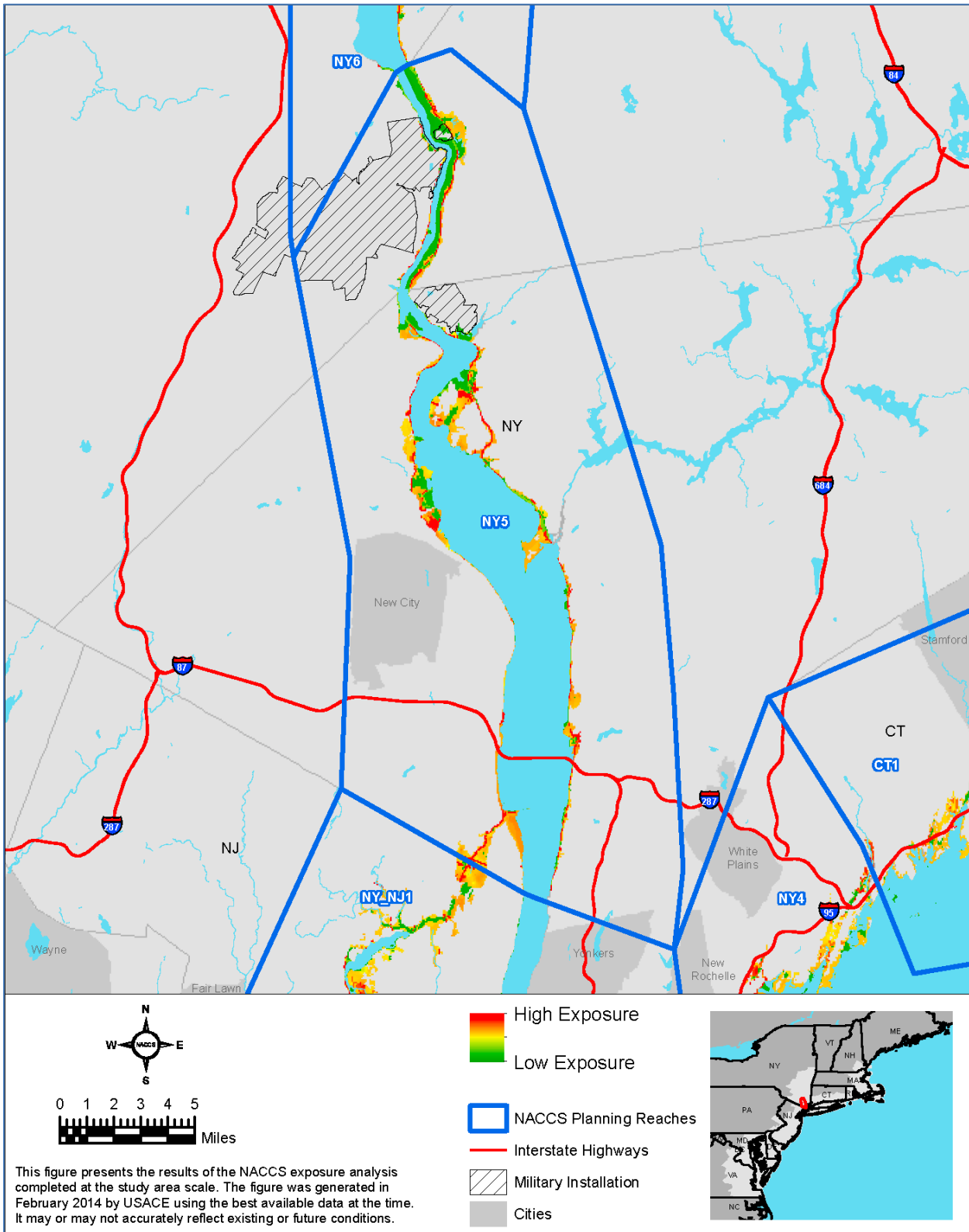


Figure 11c-66: Composite Exposure Index (NY5)

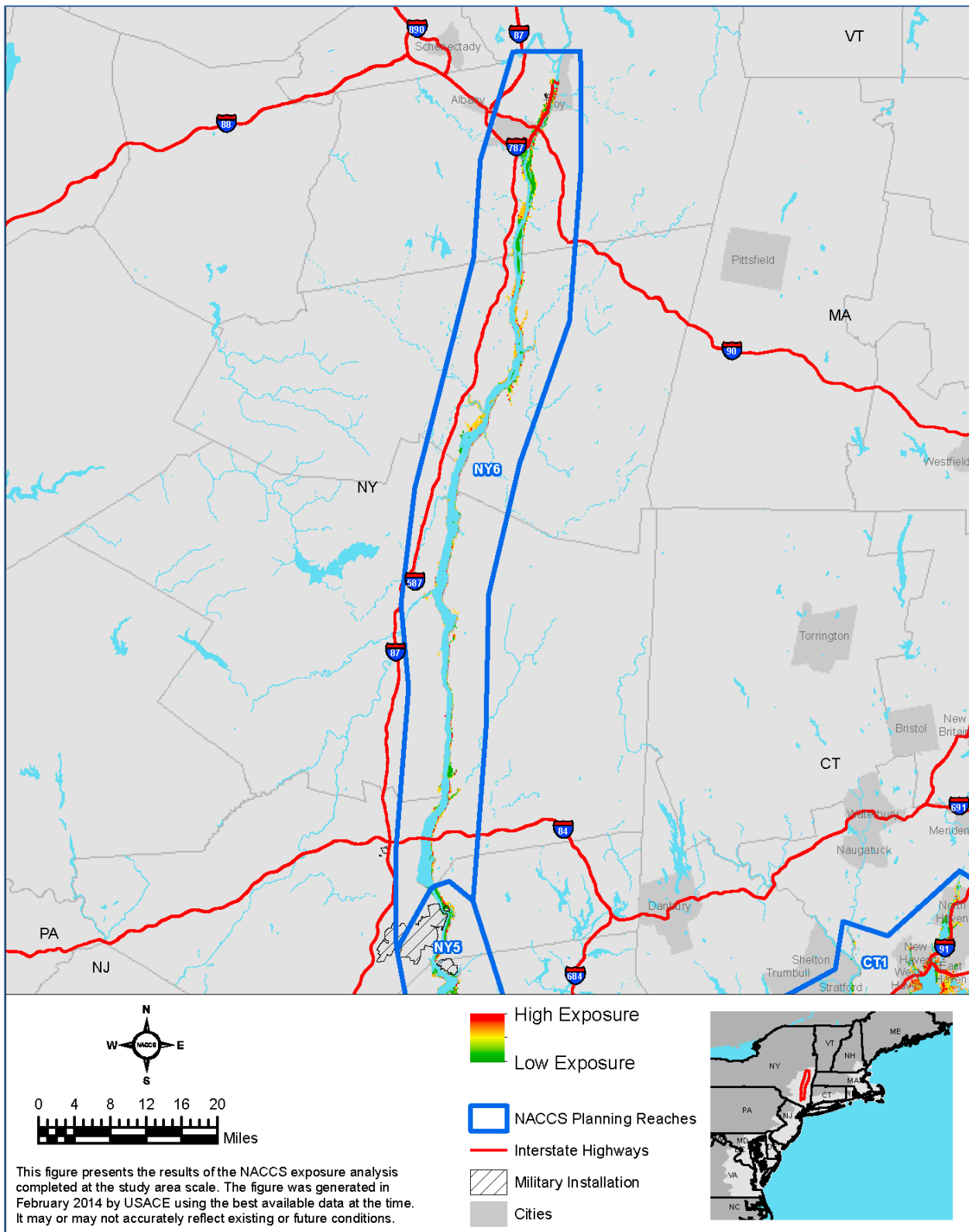


Figure Ilc-67: Composite Exposure Index (NY6)

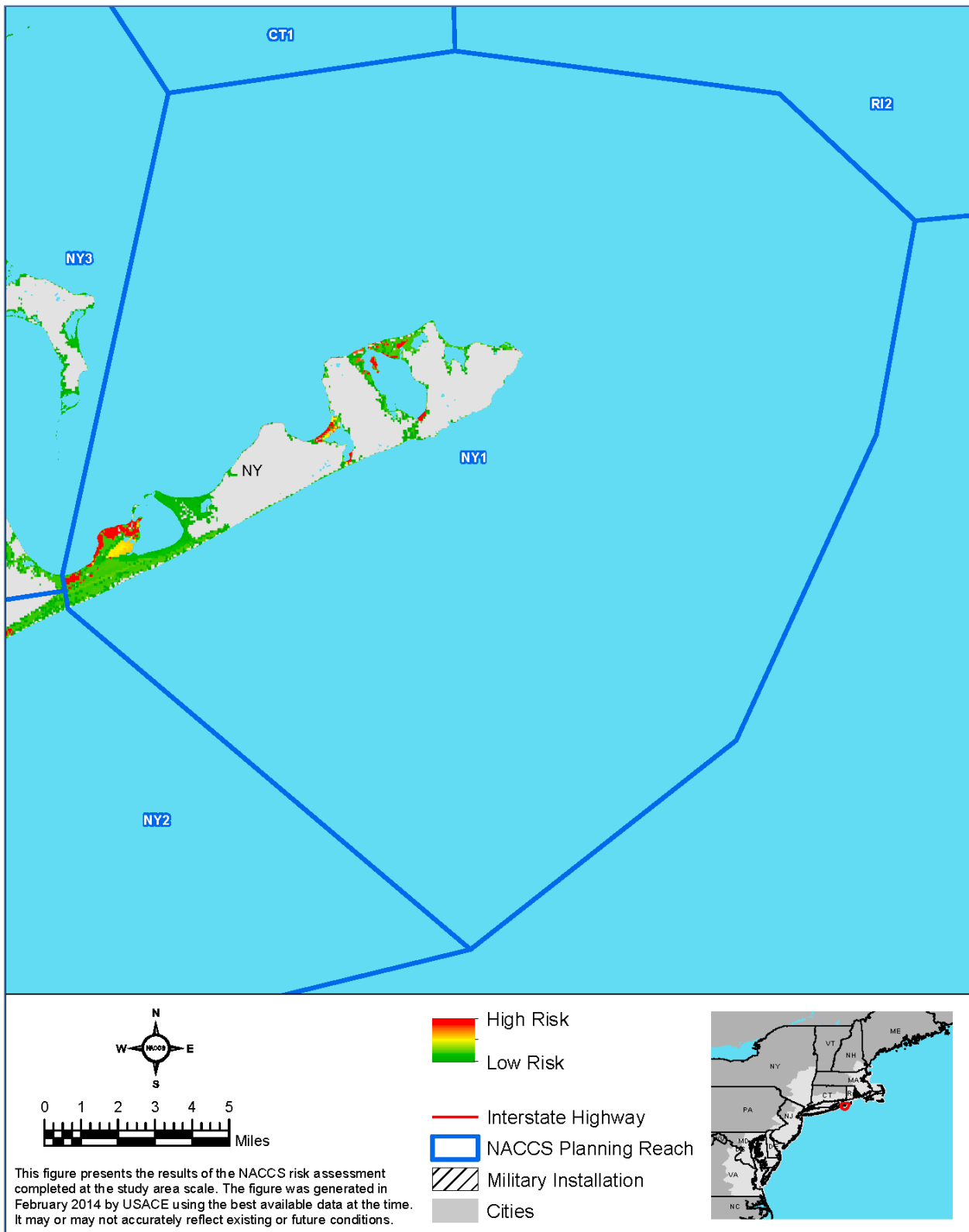


Figure IIc-68: Risk Assessment (NY1)

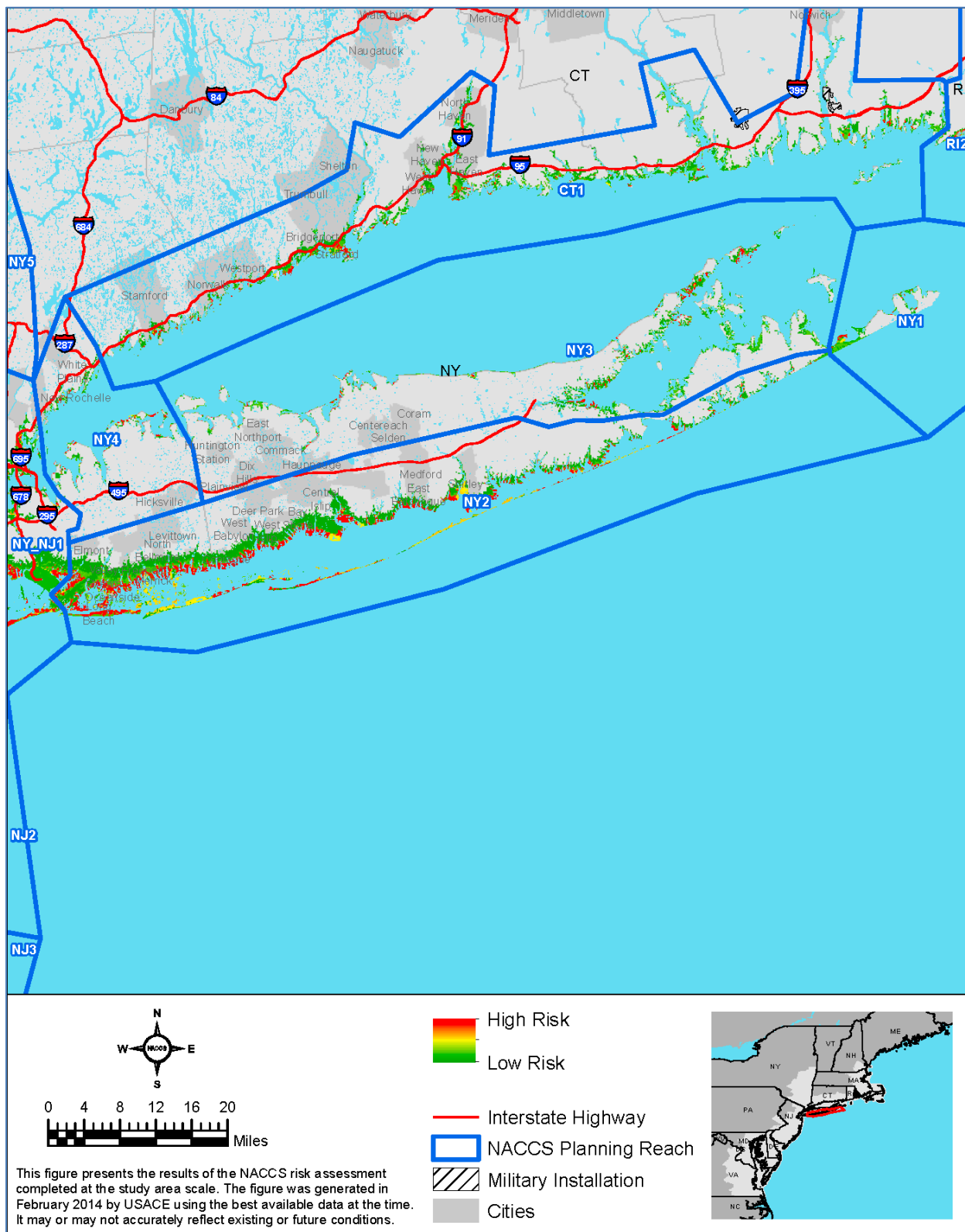


Figure Ilc-69: Risk Assessment (NY2)



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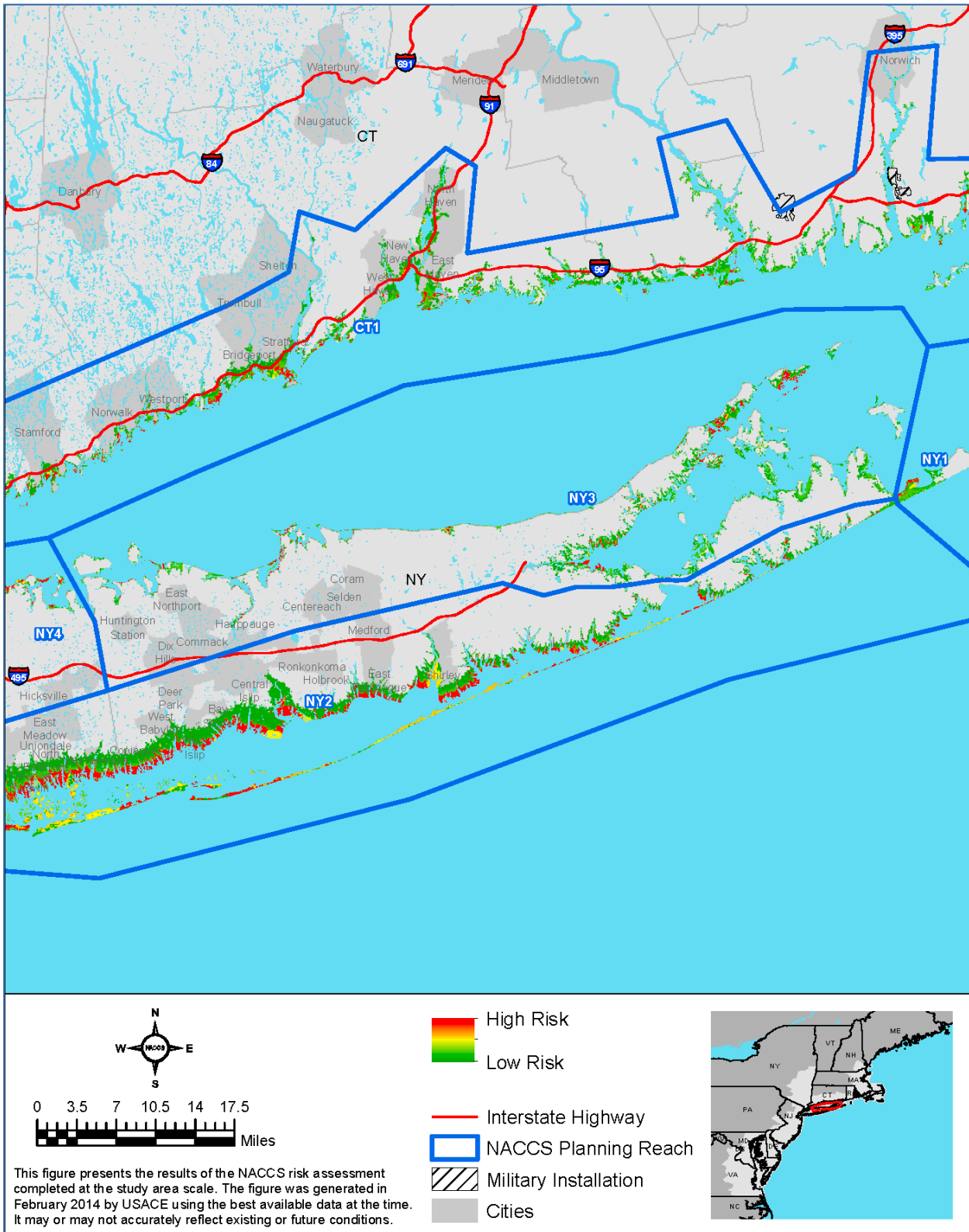


Figure 11c-70: Risk Assessment (NY3)

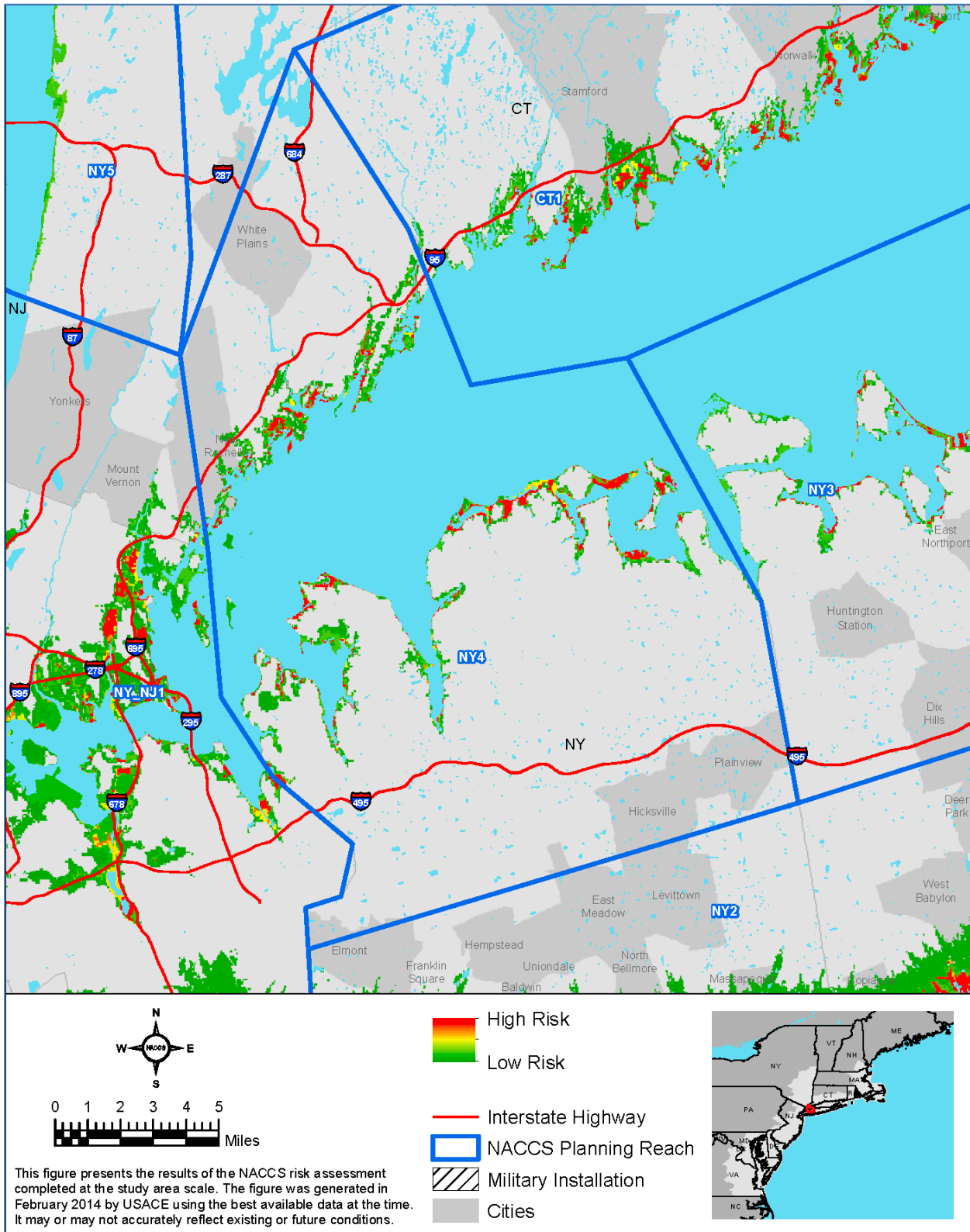


Figure Ilc-71: Risk Assessment (NY4)

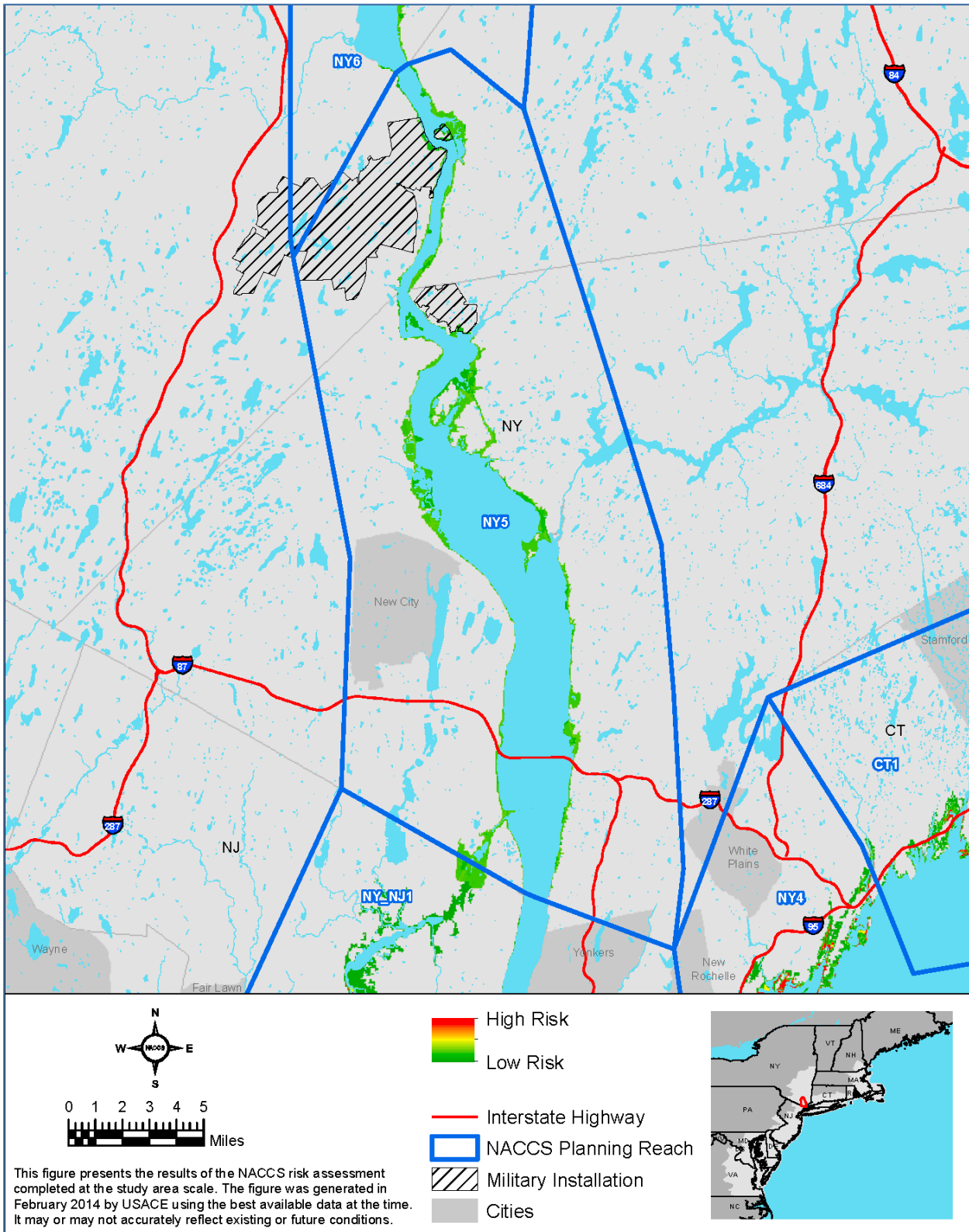


Figure Ilc-72: Risk Assessment (NY5)

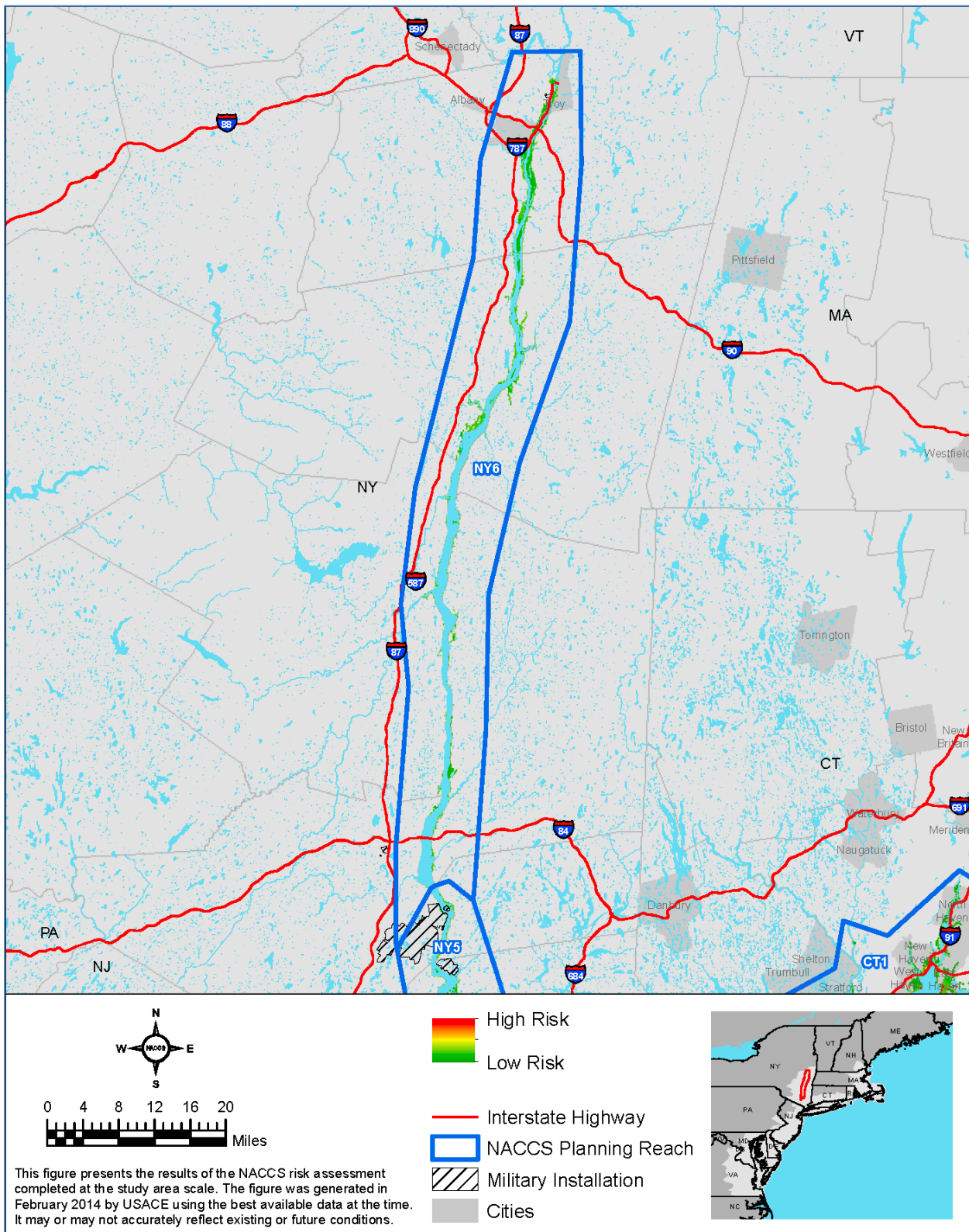


Figure 11c-73: Risk Assessment (NY6)

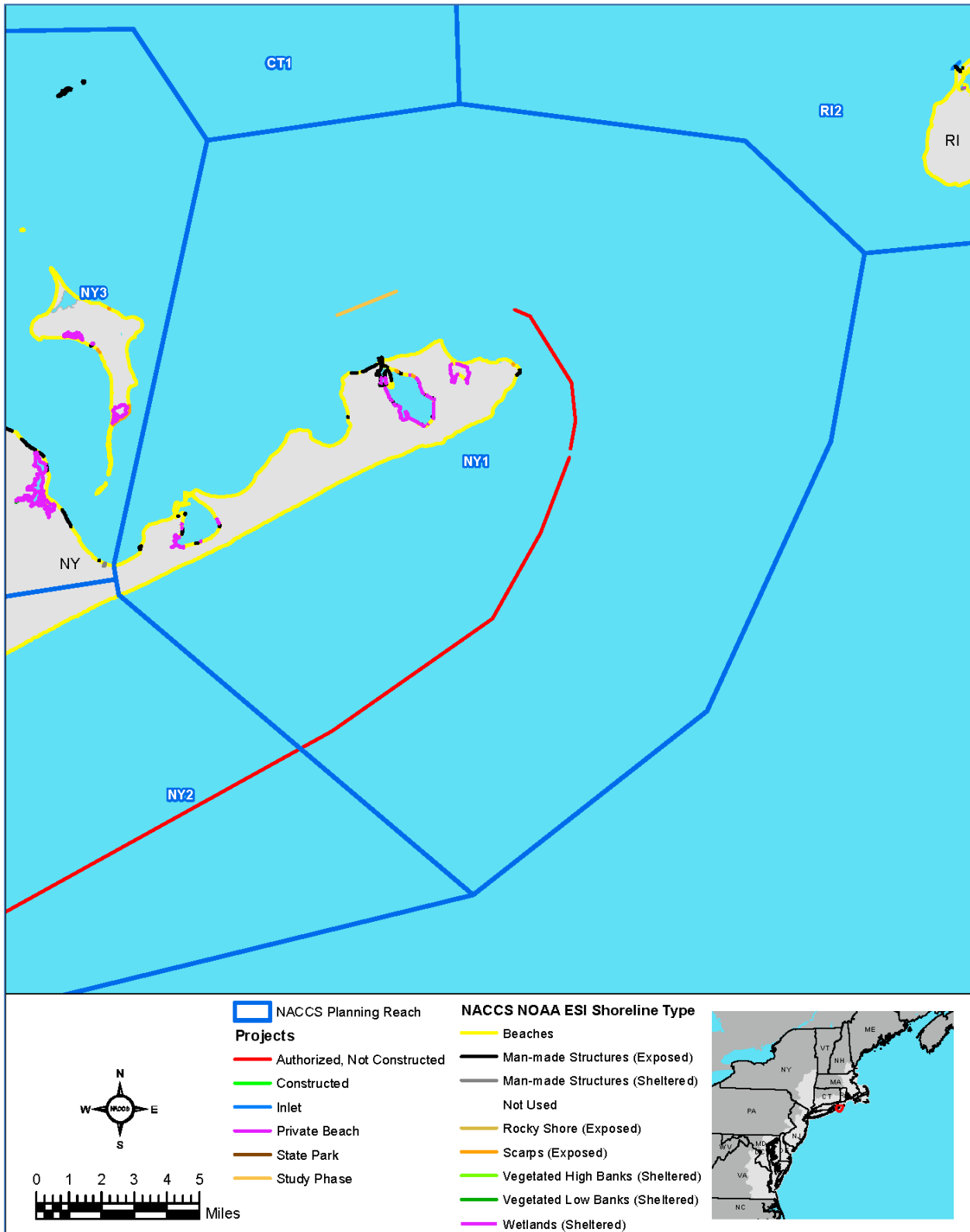


Figure 11c-74: Shoreline Types (NY1)

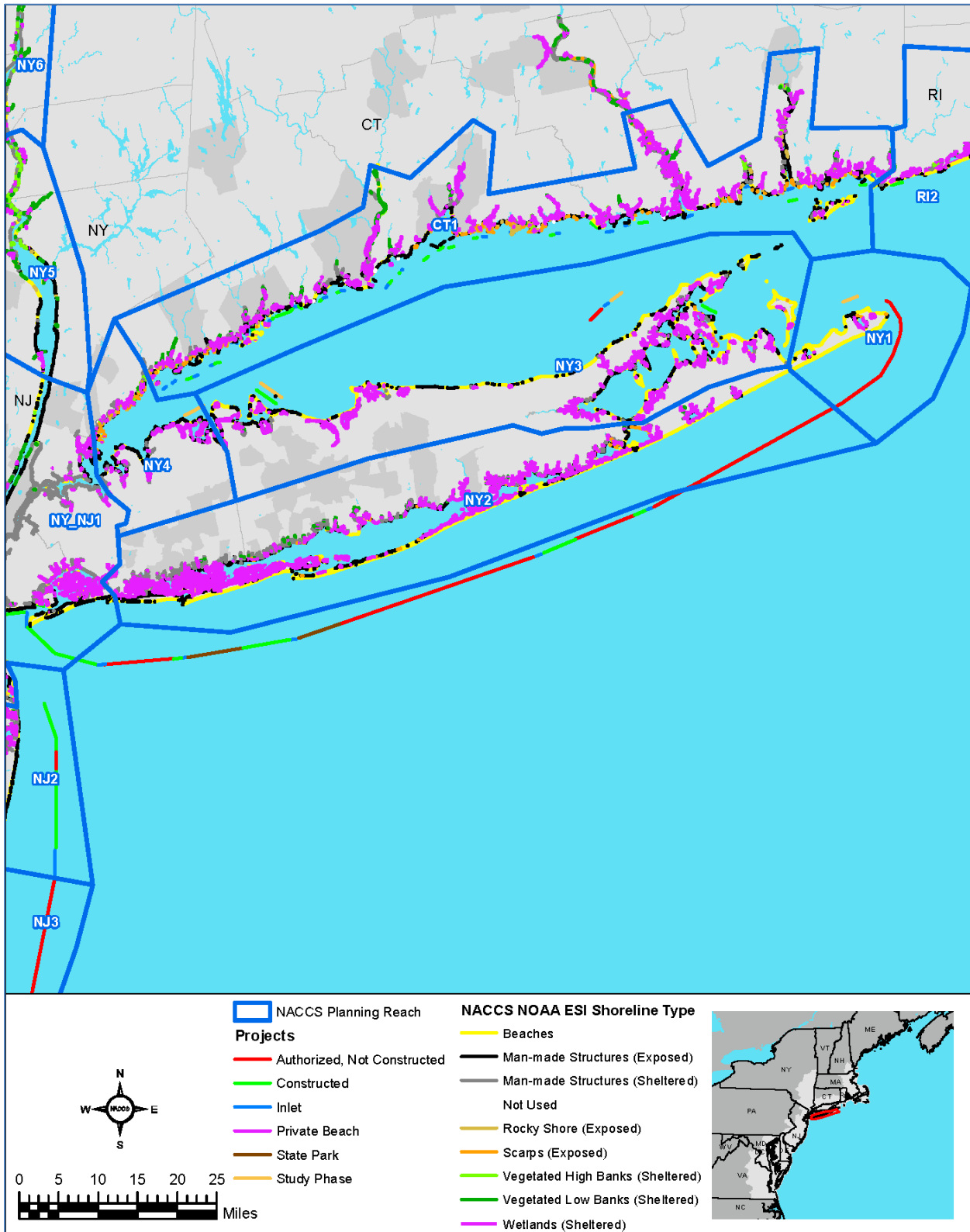


Figure 11c-75: Shoreline Types (NY2)

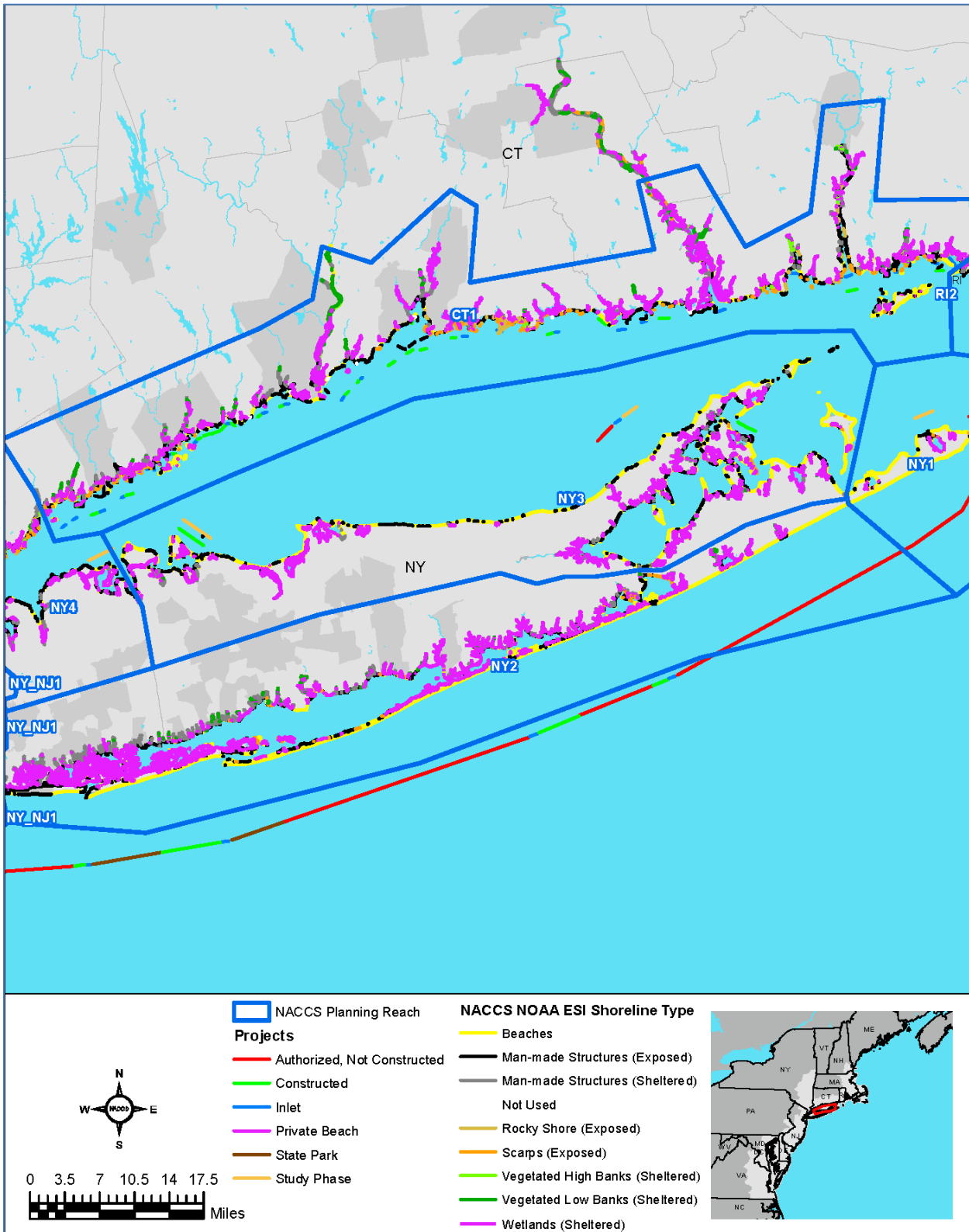


Figure 11c-76: Shoreline Types (NY3)

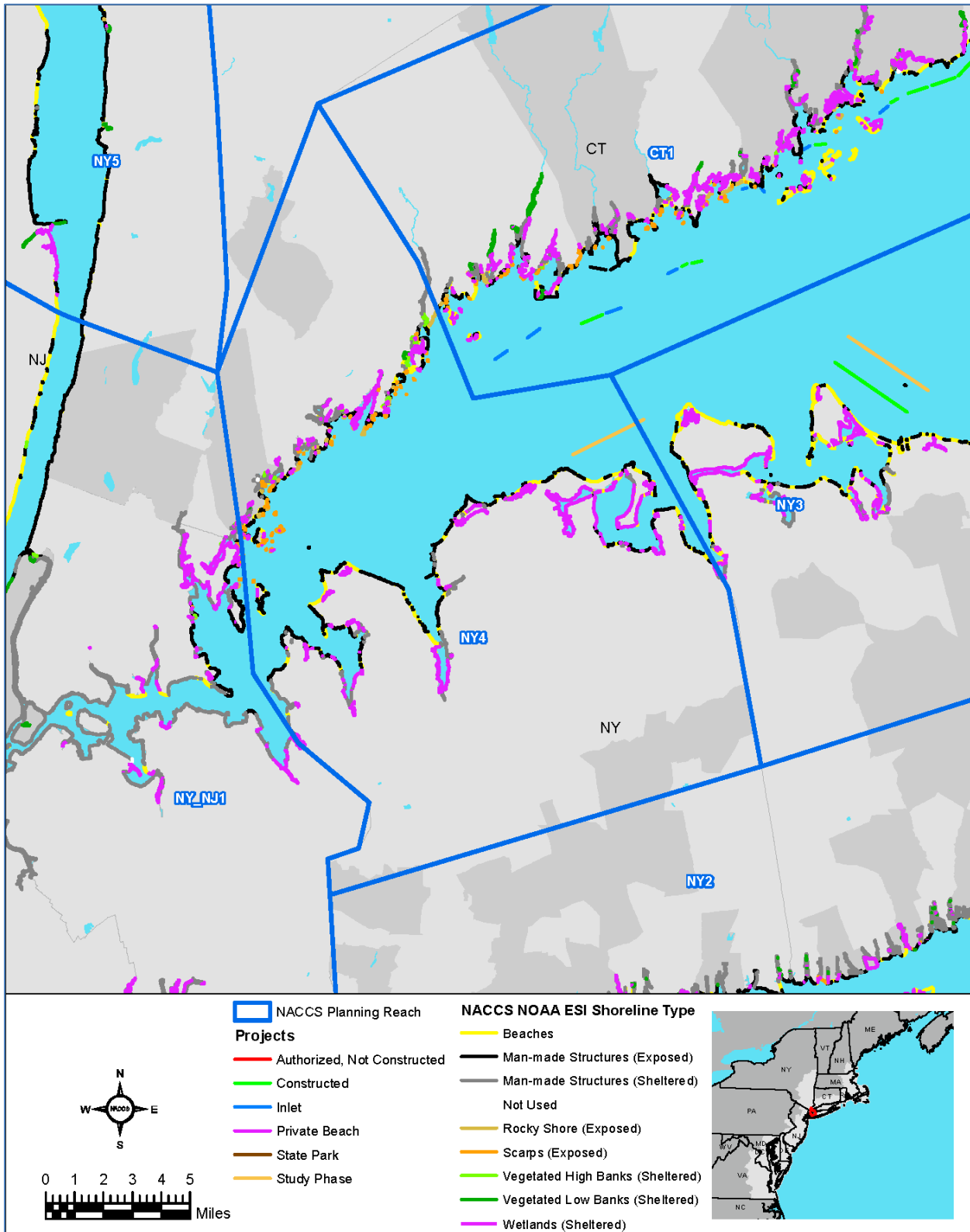


Figure 11c-77: Shoreline Types (NY4)

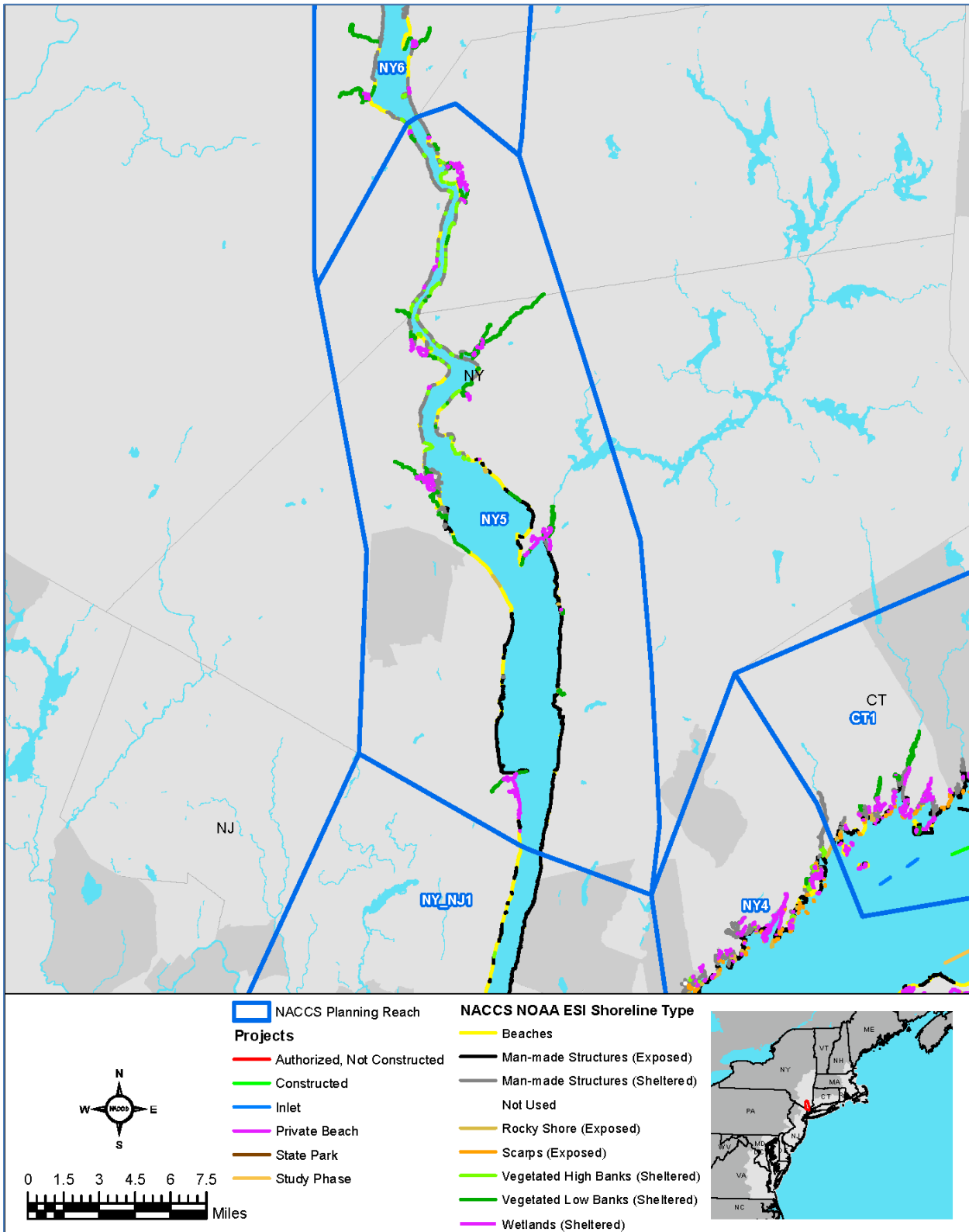


Figure 11c-78: Shoreline Types (NY5)

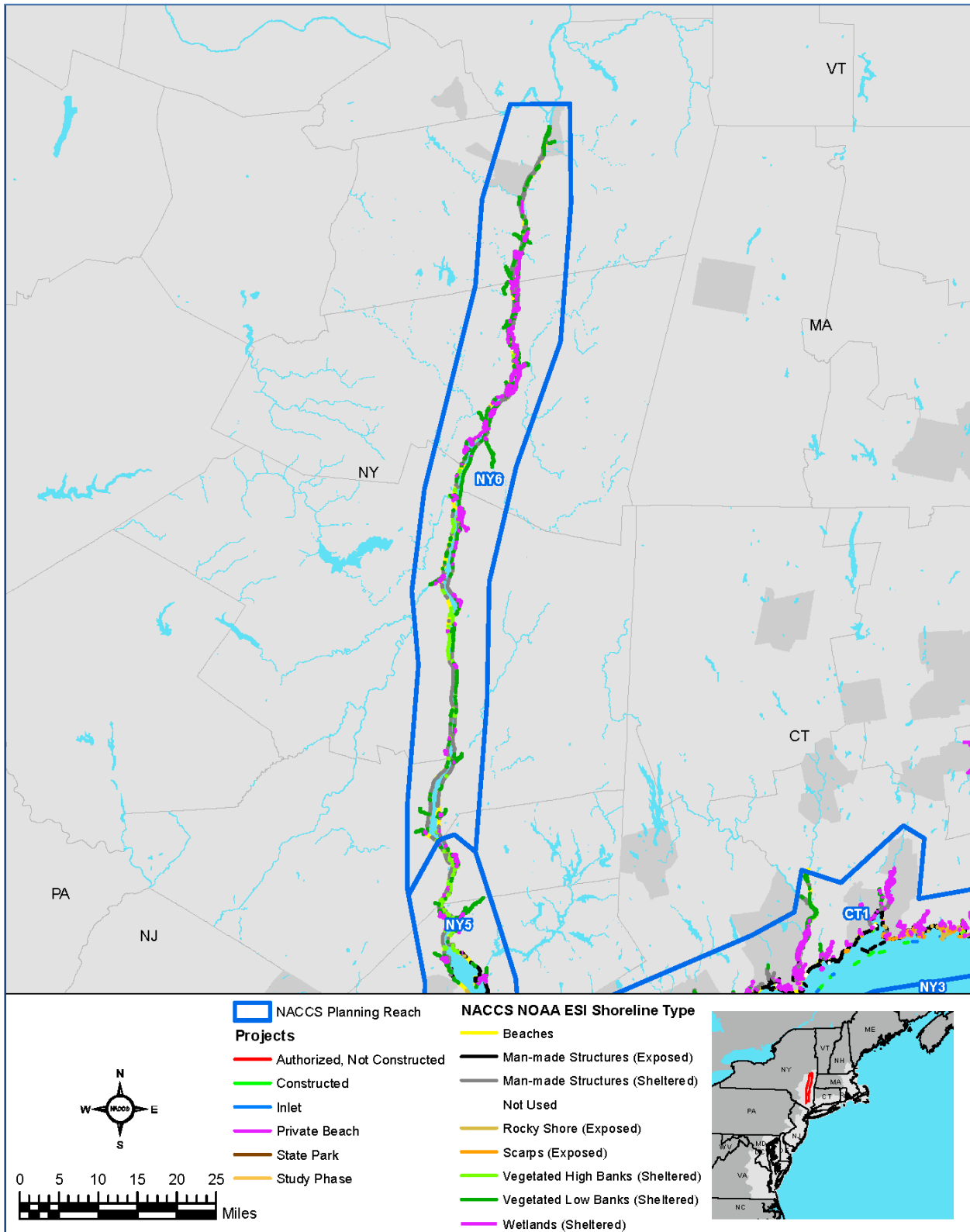


Figure 11c-79: Shoreline Types (NY6)

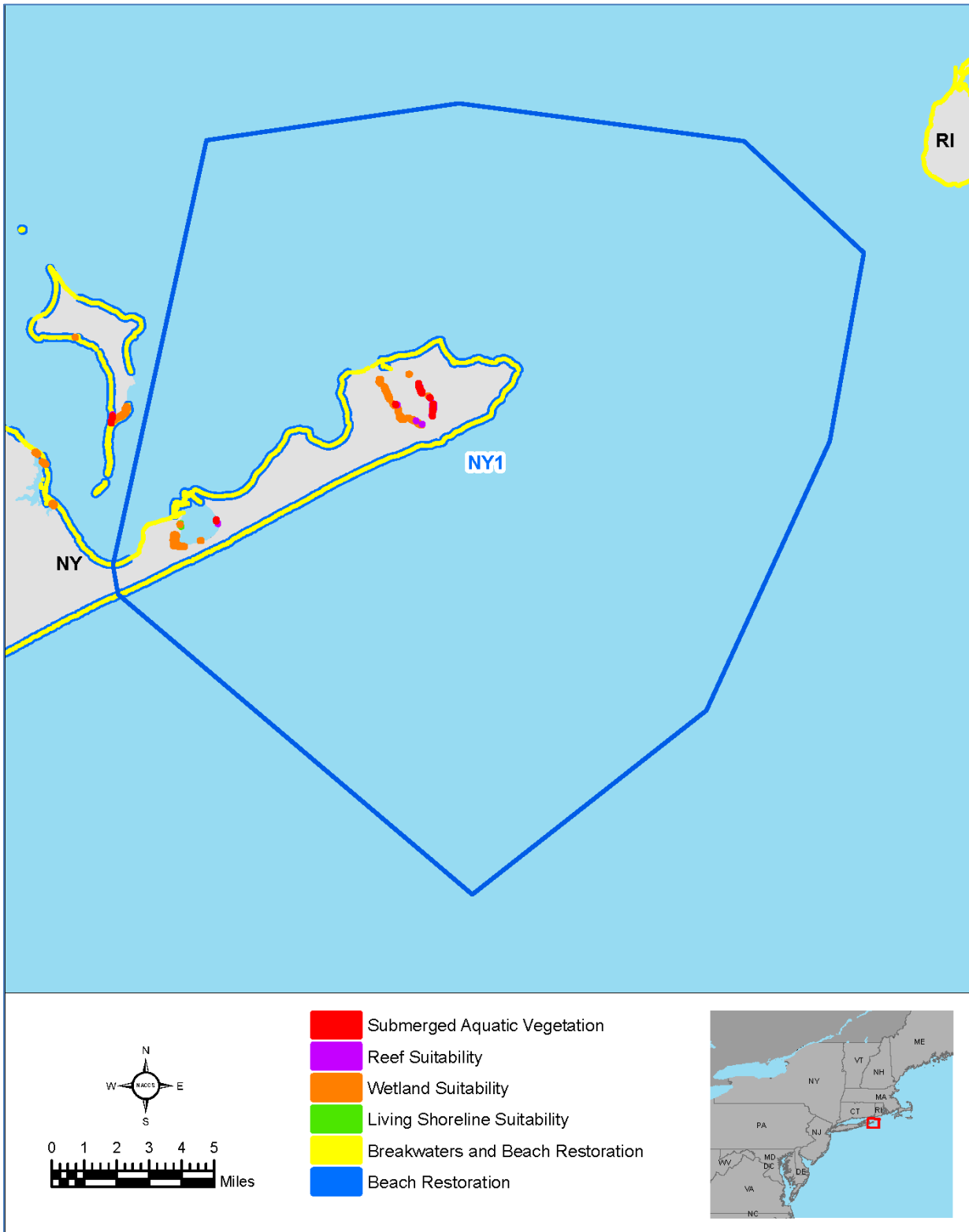


Figure IIc-80: NNBF Measures Screening (NY1)

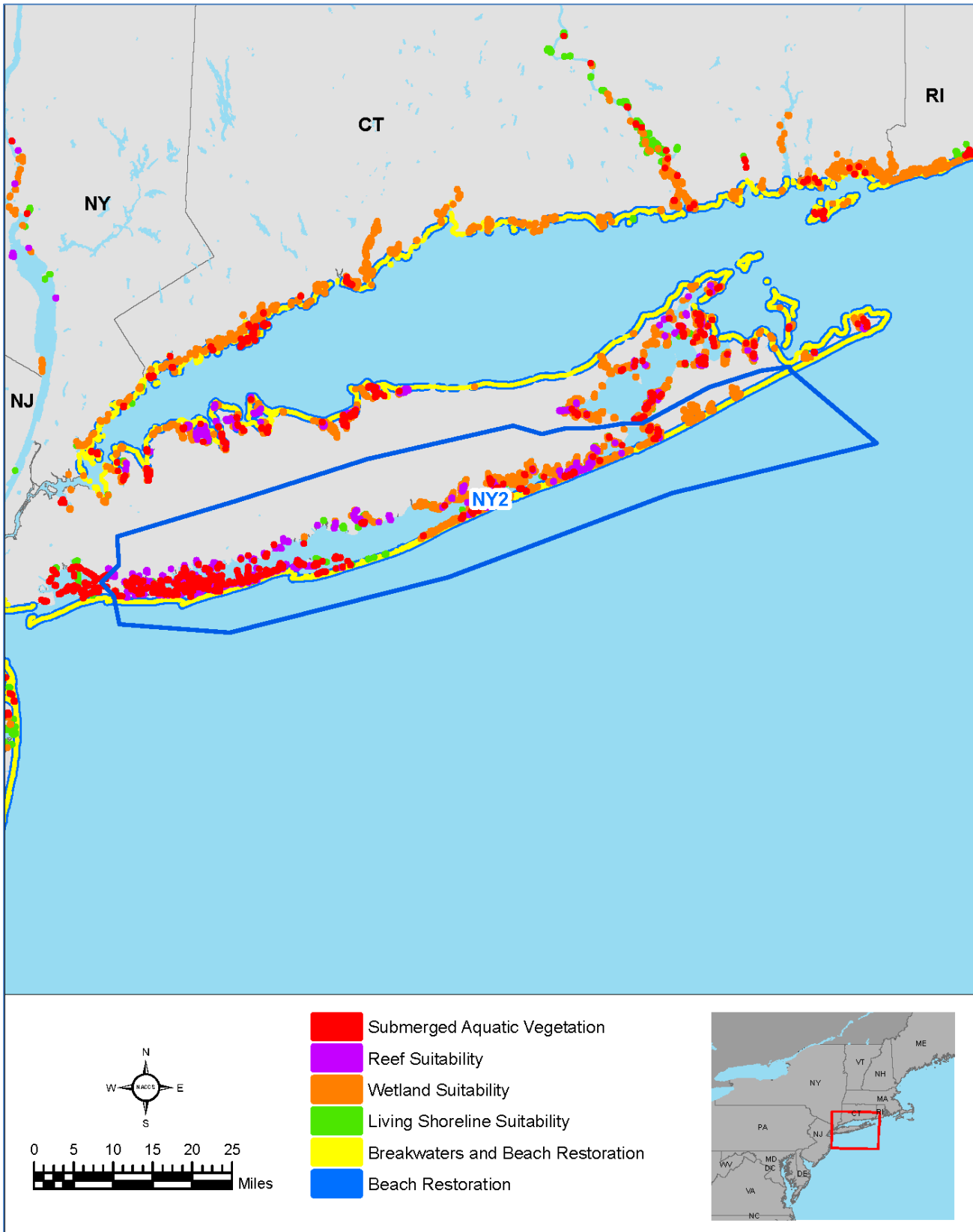


Figure IIc-81: NNBf Measures Screening (NY2)

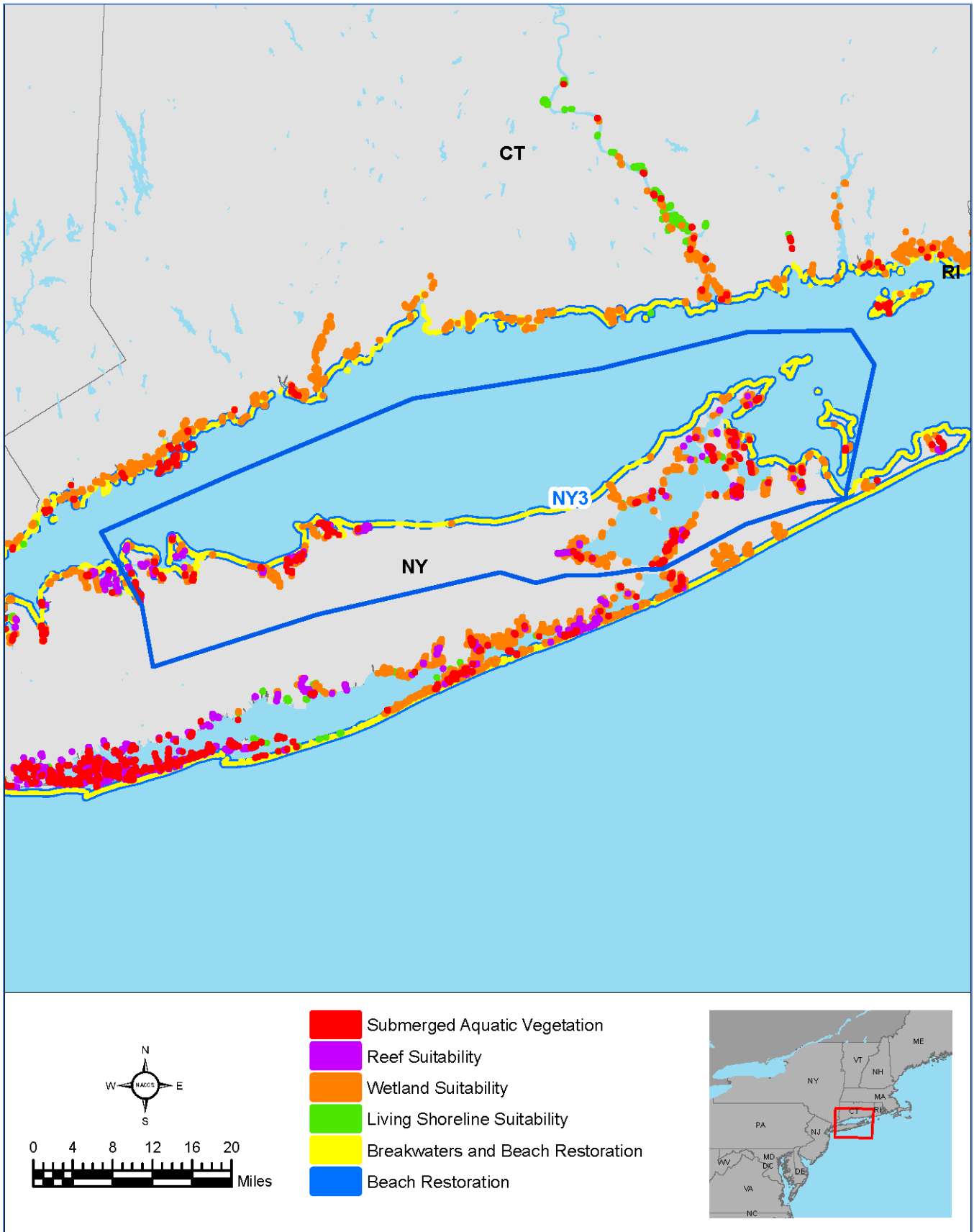


Figure 11c-82: NNBF Measures Screening (NY3)

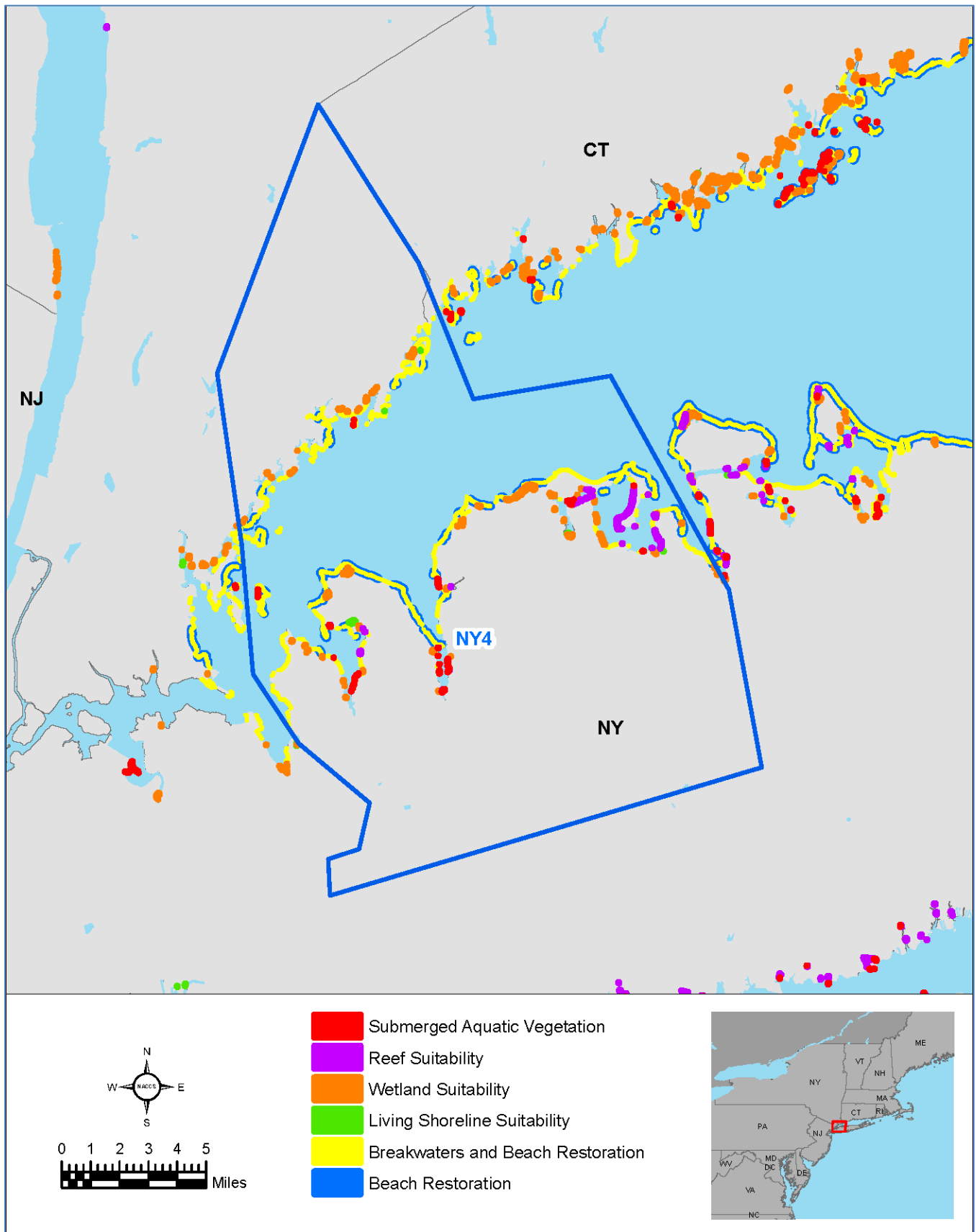


Figure 11c-83: NNBf Measures Screening (NY4)

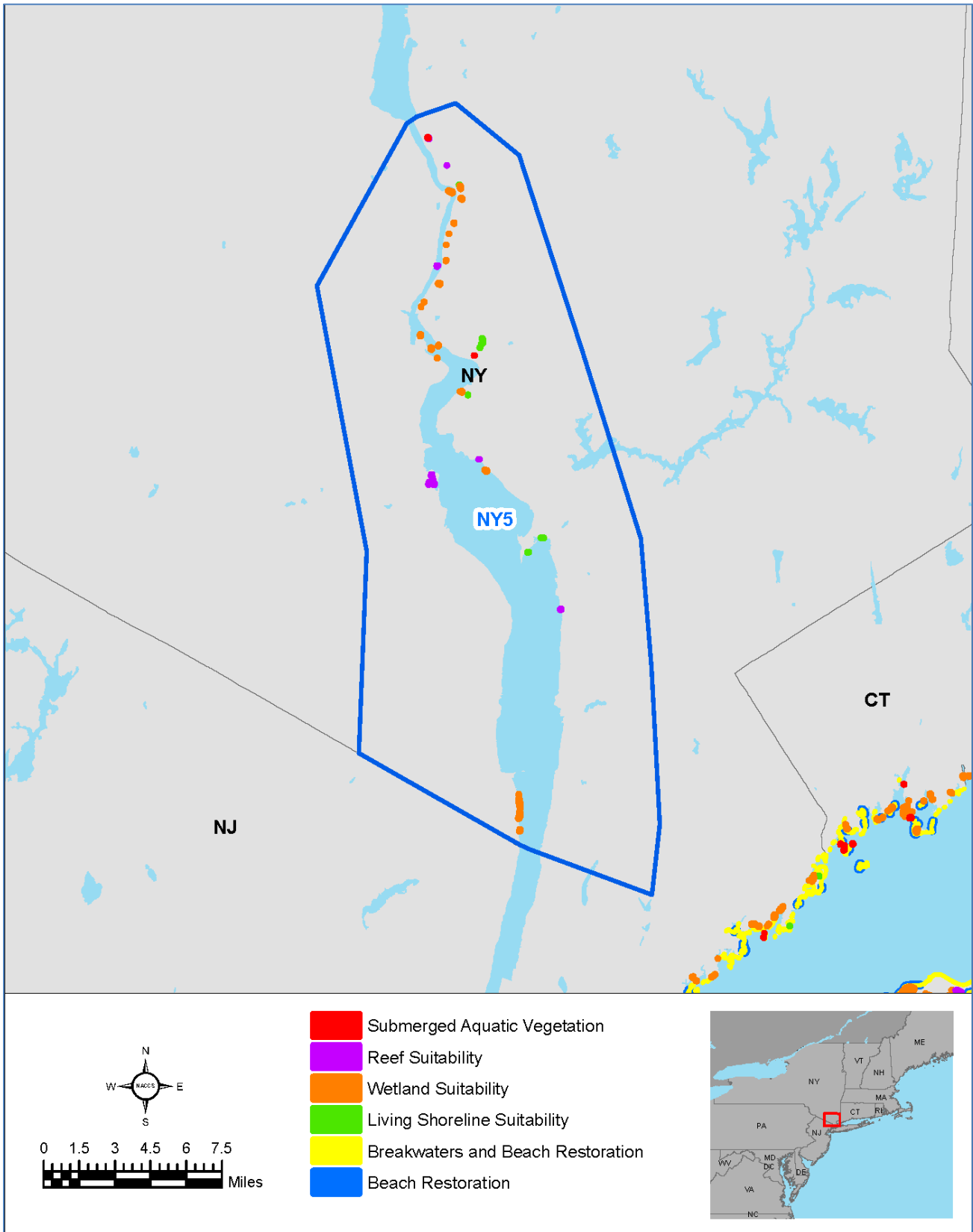


Figure 11c-84: NNBf Measures Screening (NY5)



d. State of New Jersey

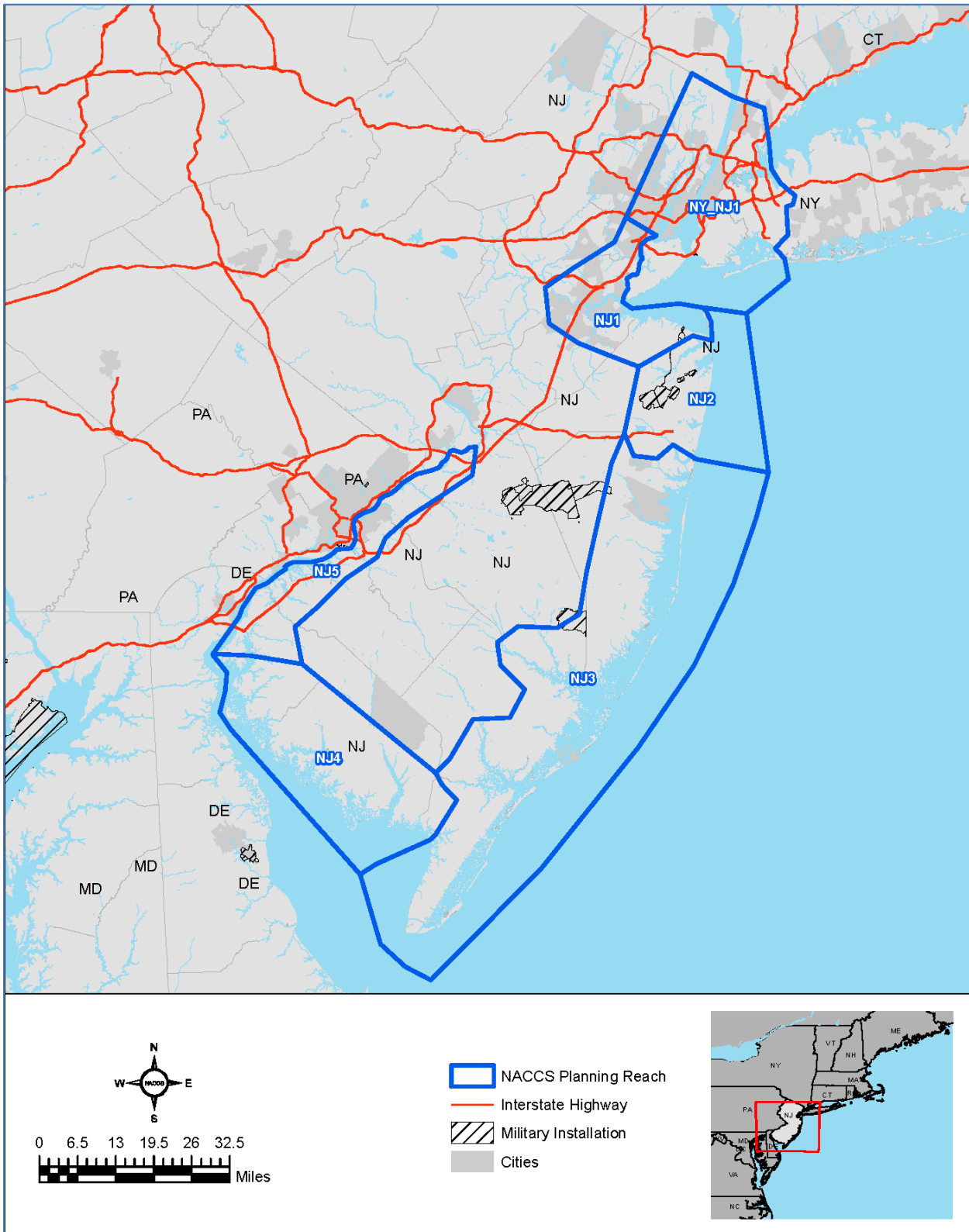


Figure IId-1: Planning Reaches for the State of New Jersey

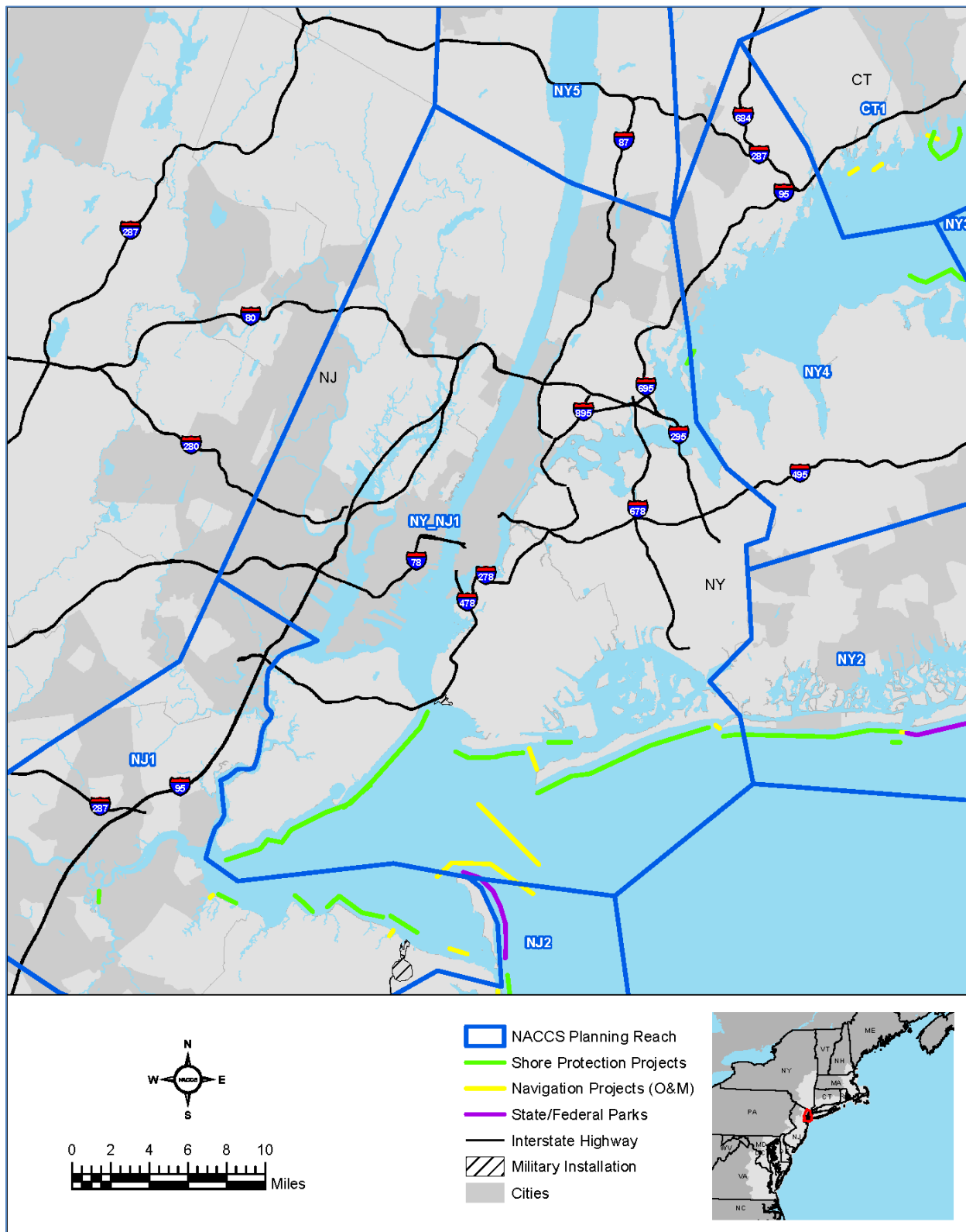


Figure IId-2: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NY-NJ1)

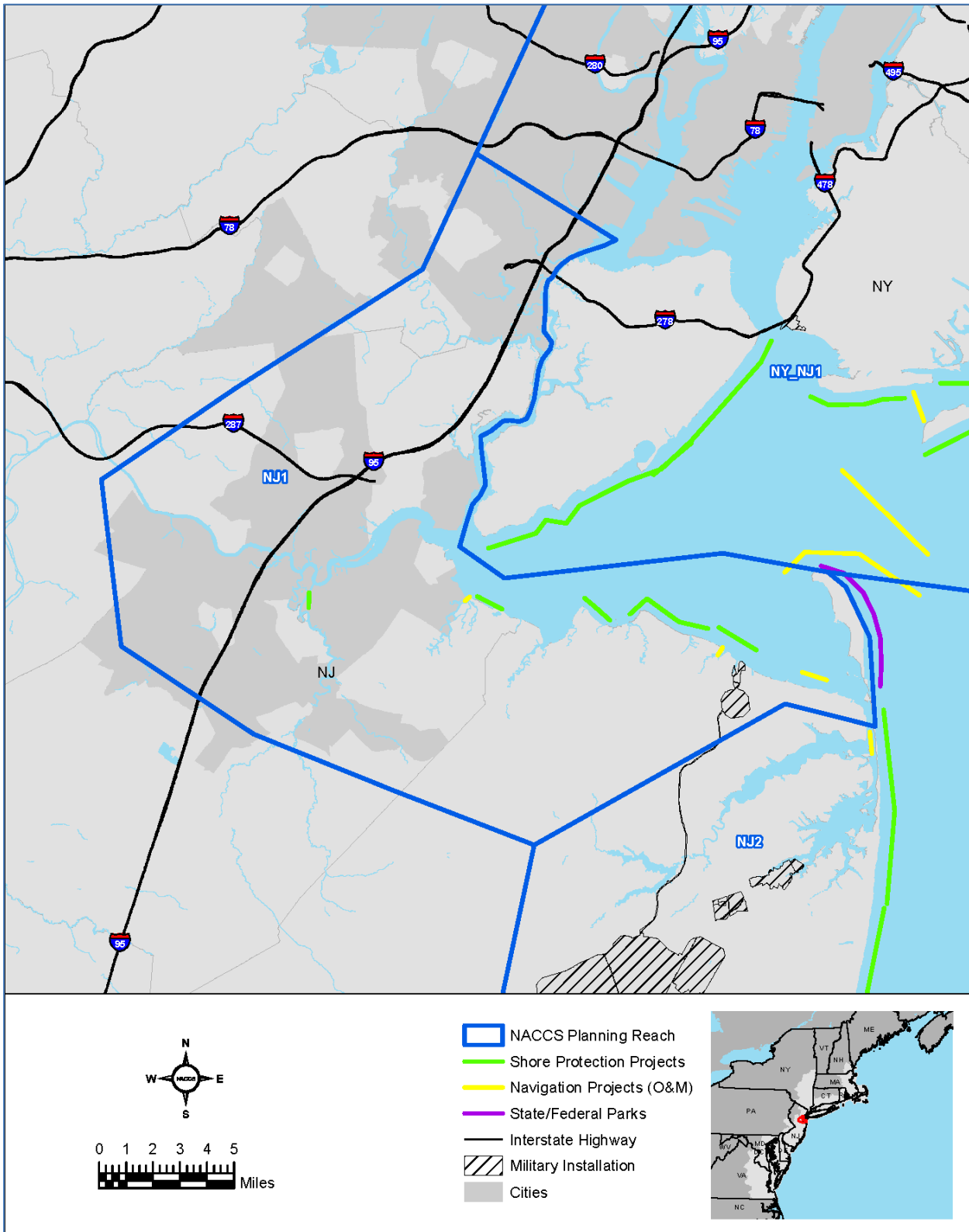


Figure IId-3: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ1)

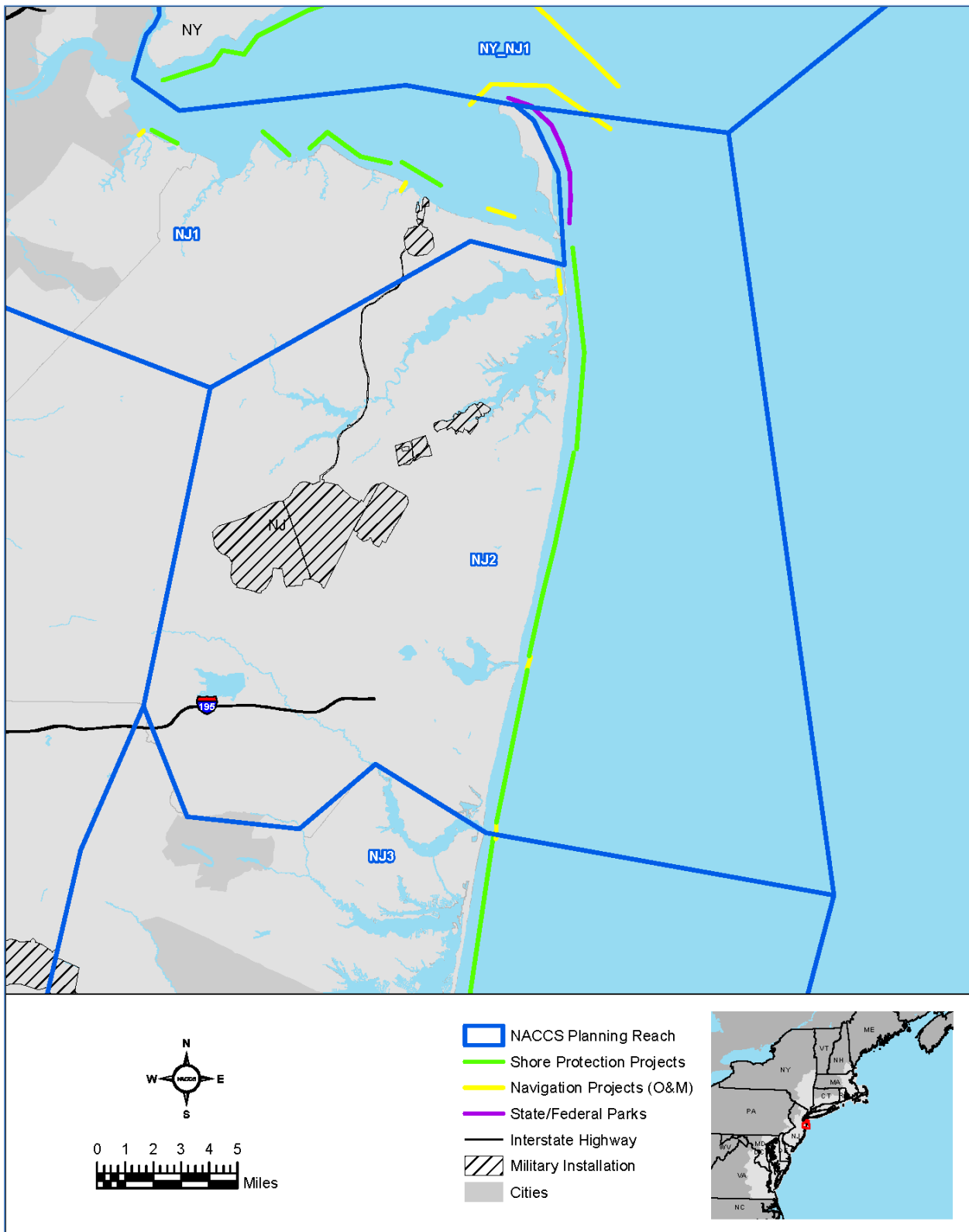


Figure IId-4: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ2)

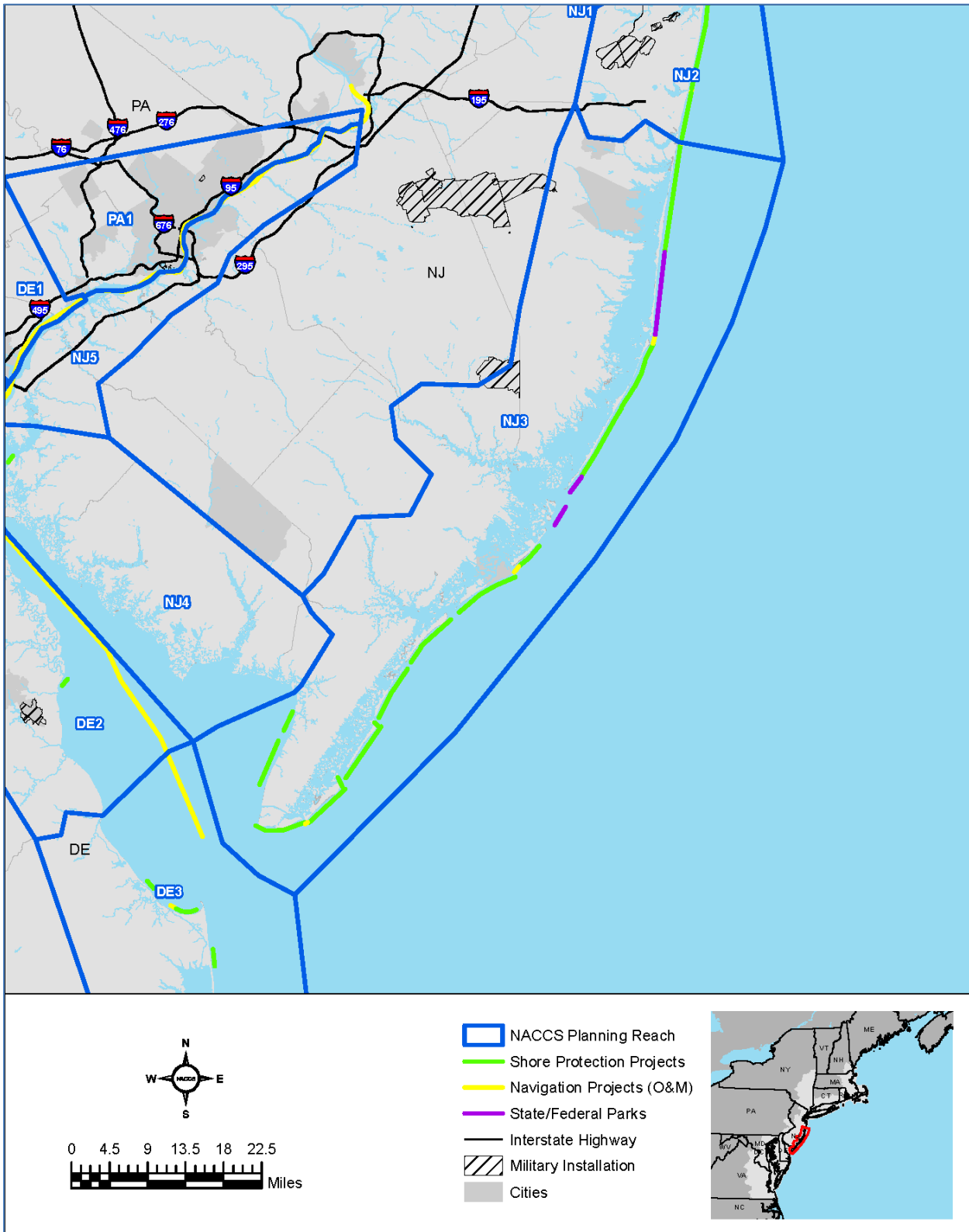


Figure 11d-5: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ3)

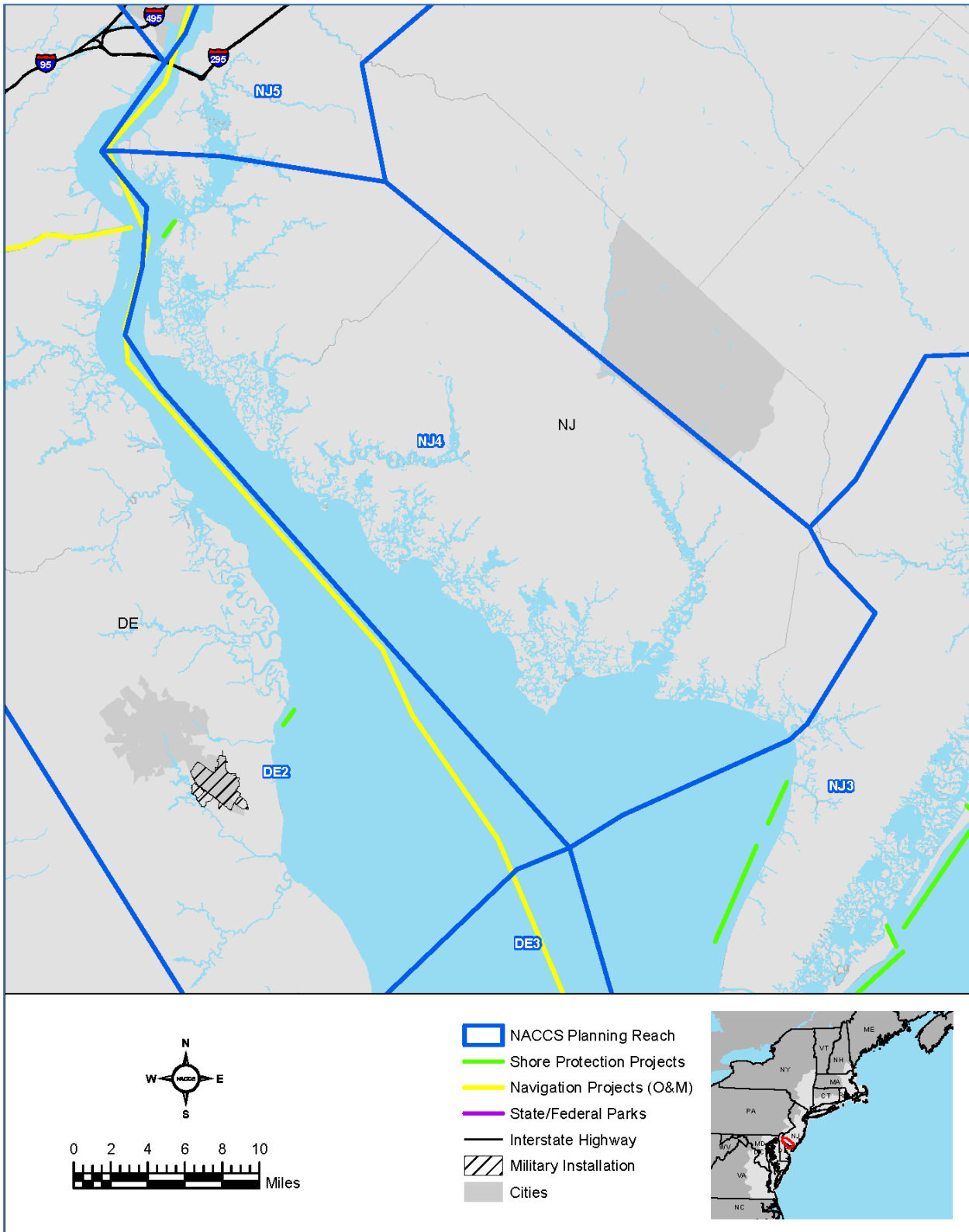


Figure 11d-6: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ4)

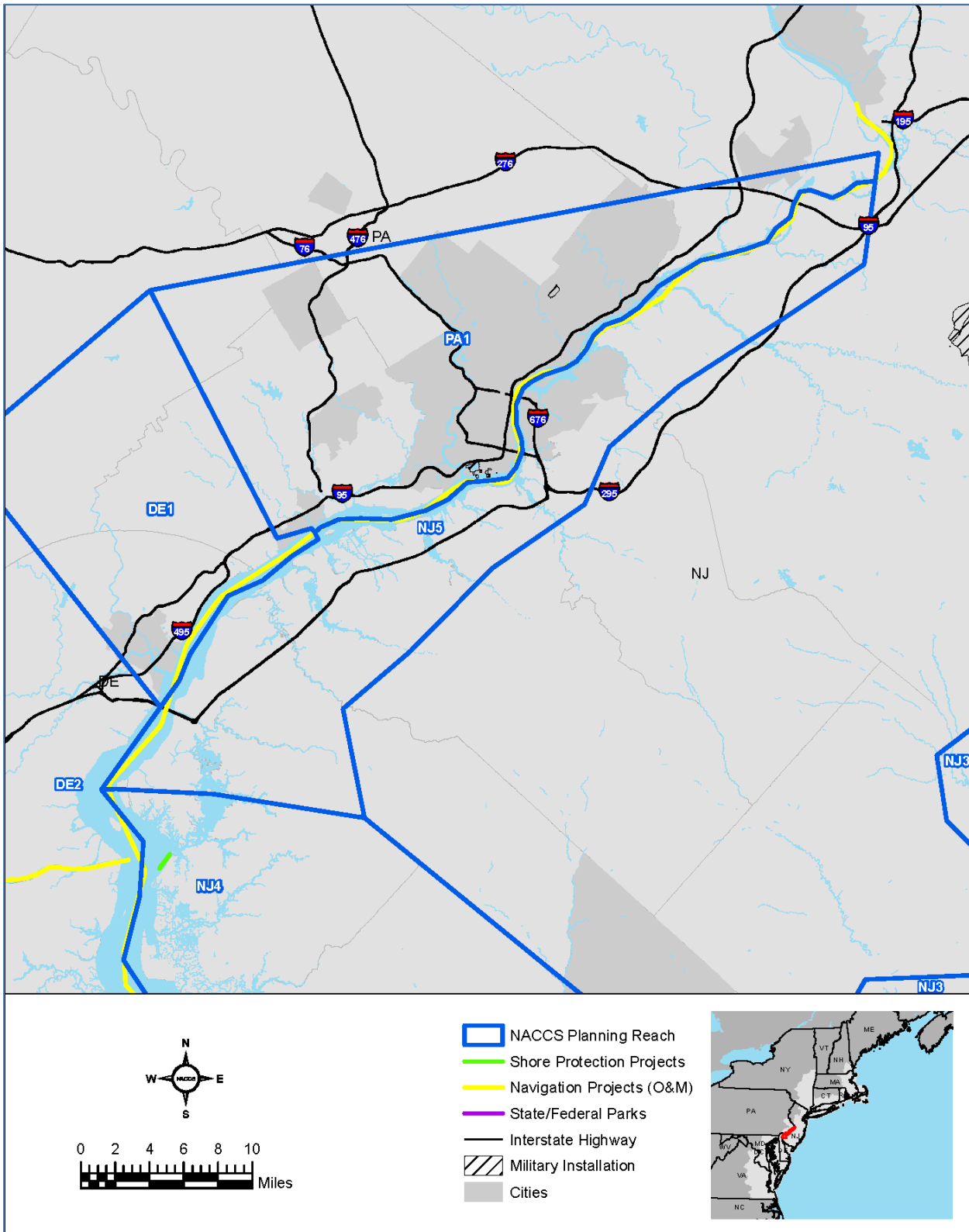


Figure IId-7: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ5)

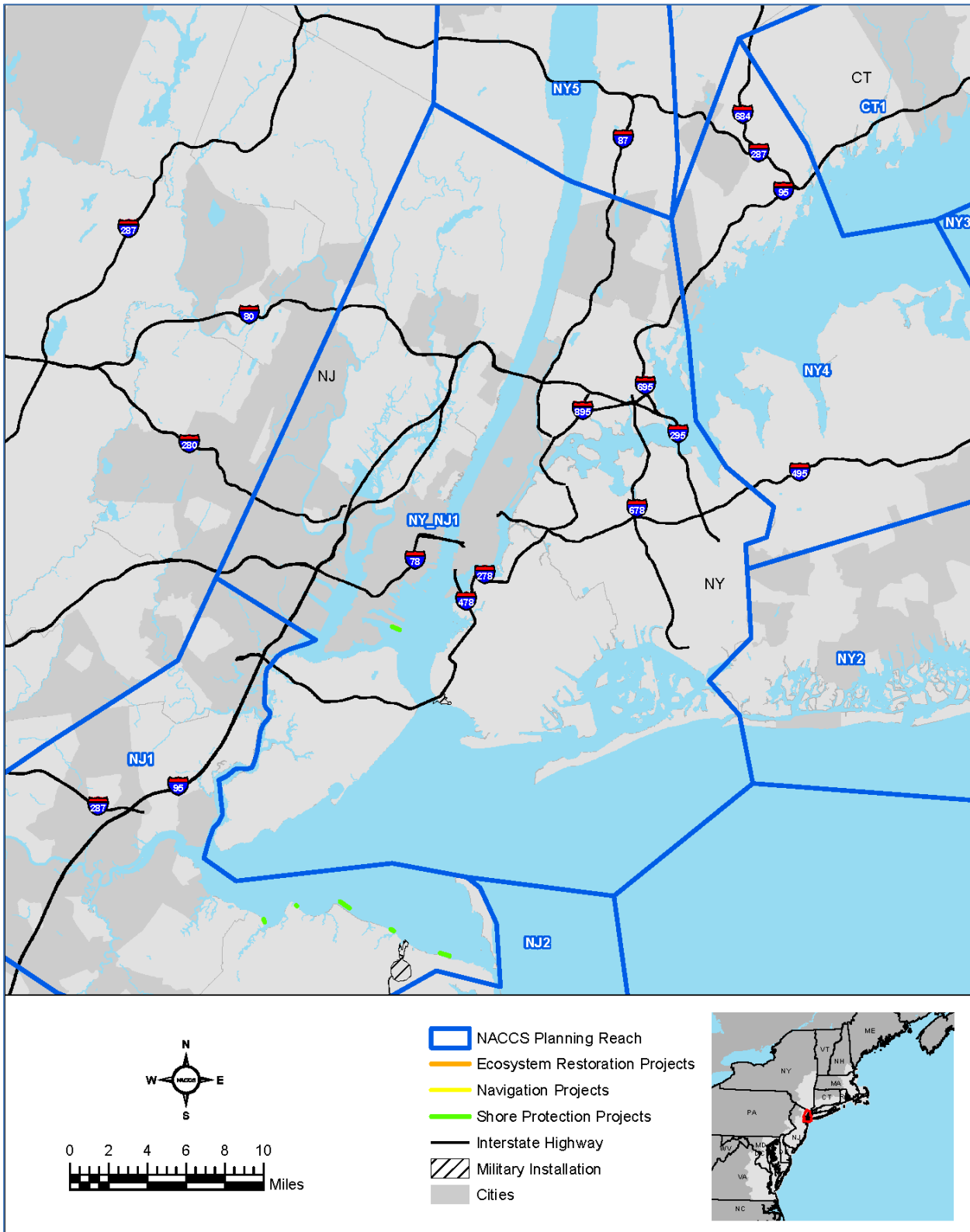


Figure IId-8: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NY-NJ1)

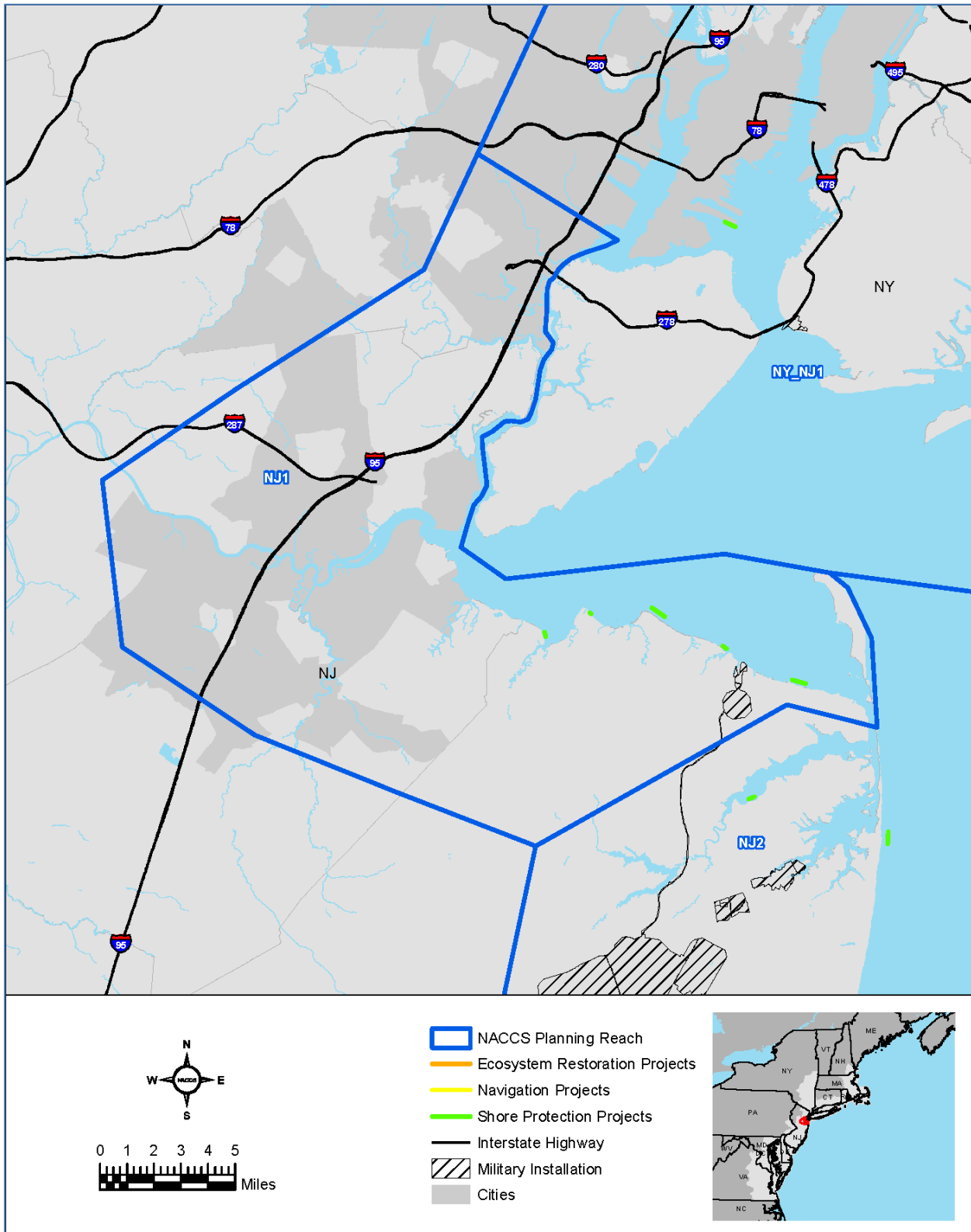


Figure IId-9: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ1)

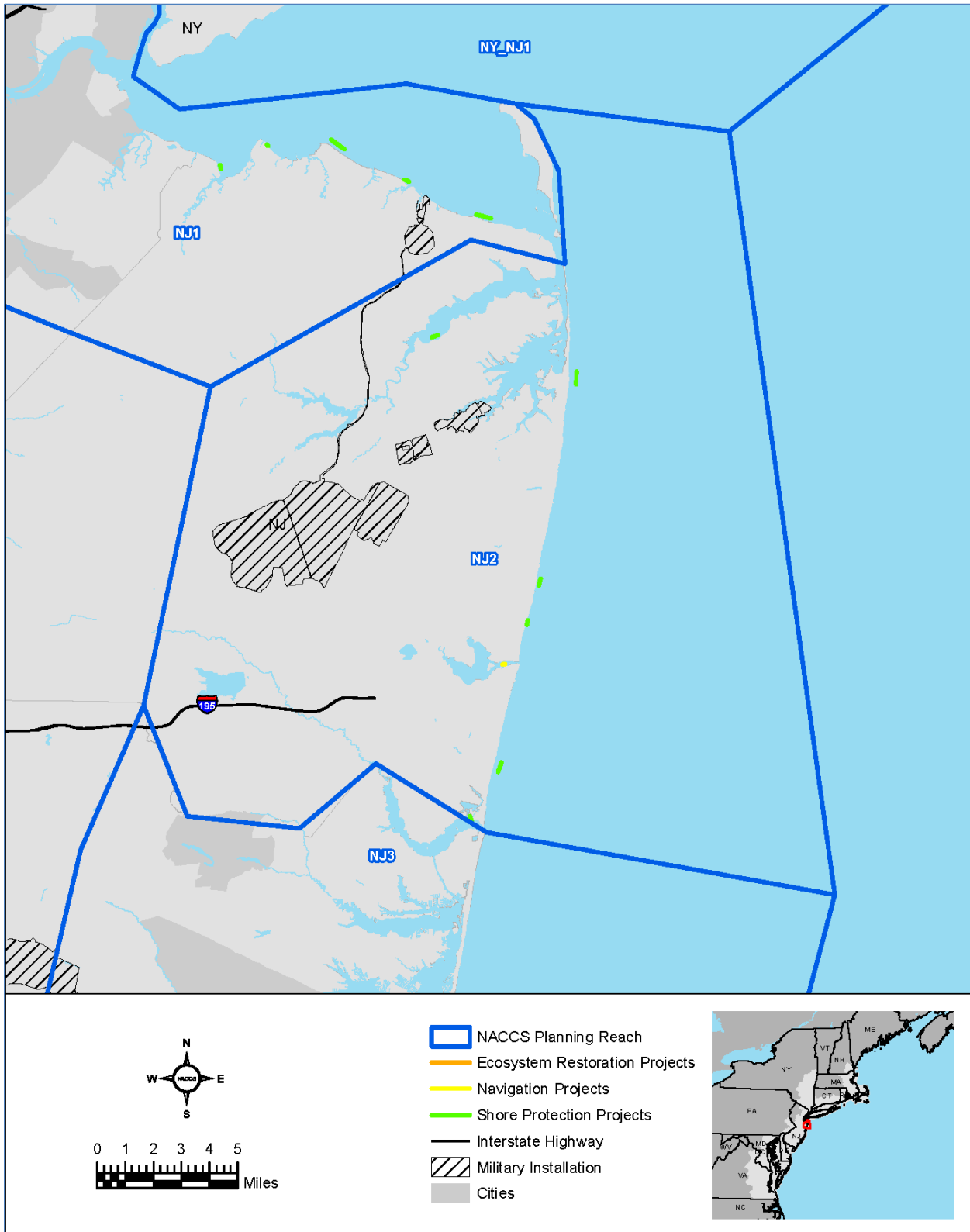


Figure IId-10: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ2)

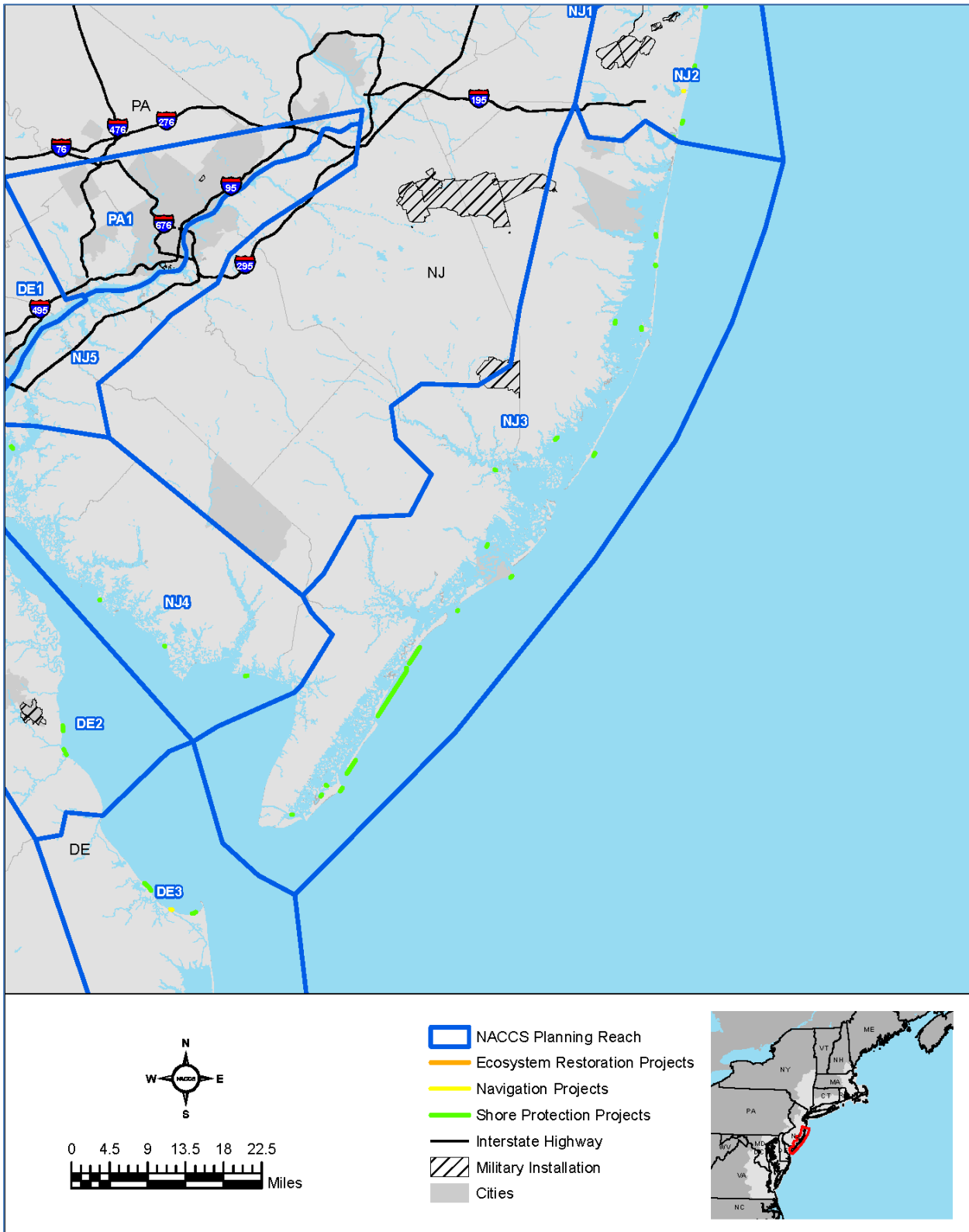


Figure IId-11: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ3)

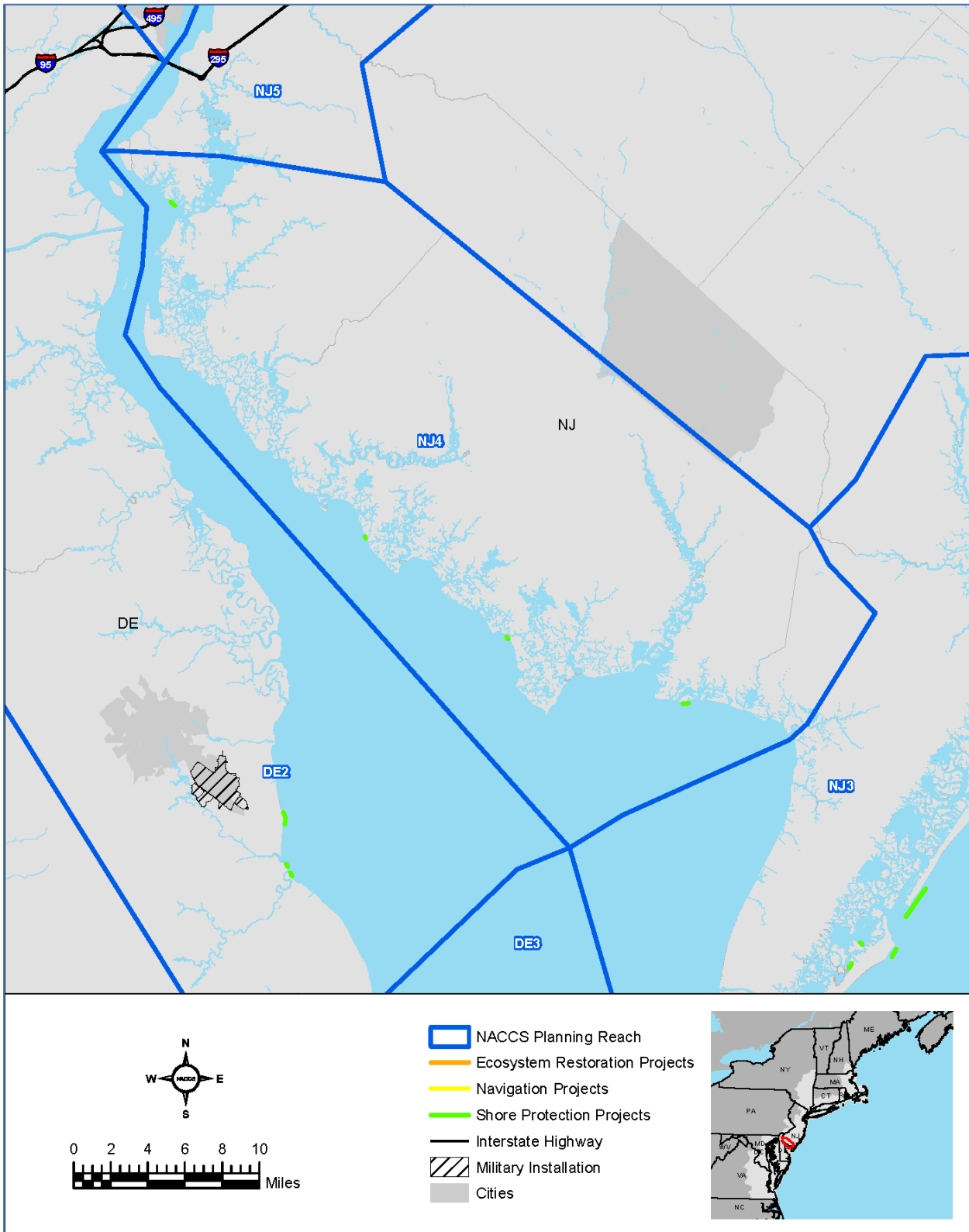


Figure IId-12: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ4)

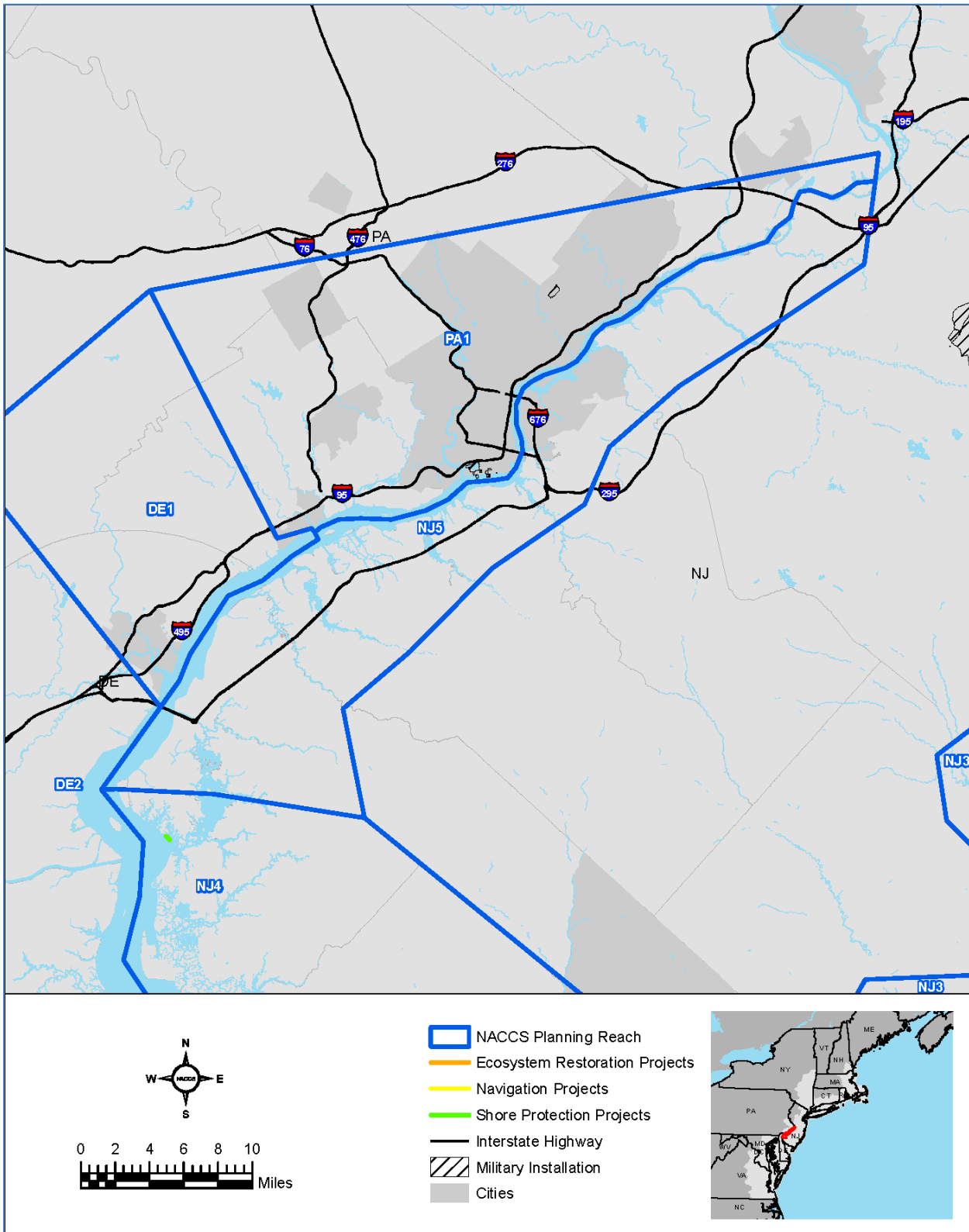


Figure IId-13: State Projects Included in the Post-Hurricane Sandy Landscape Condition (NJ5)

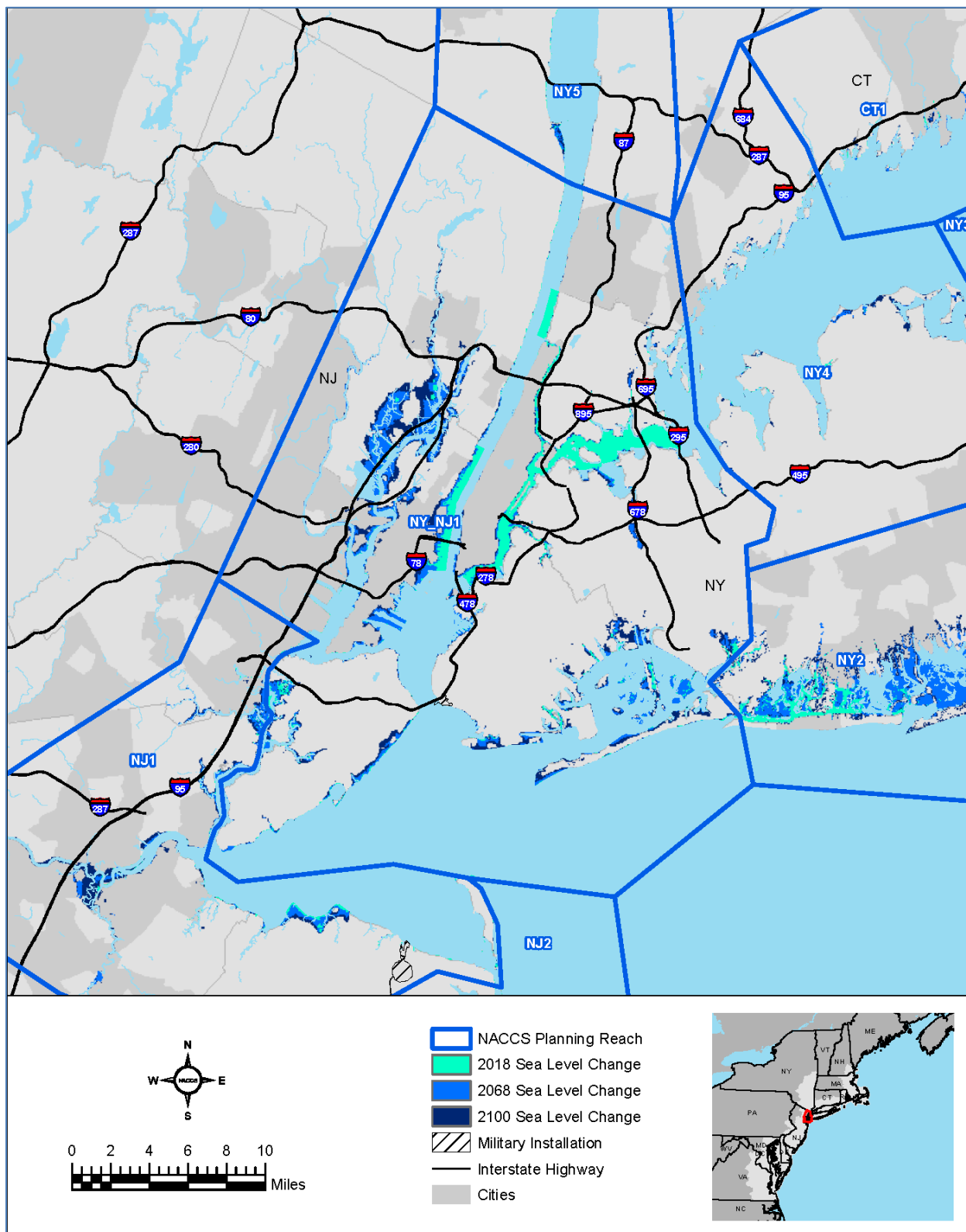


Figure IId-14: USACE High Scenario Future Mean Sea Level Change Inundation (NY-NJ1)

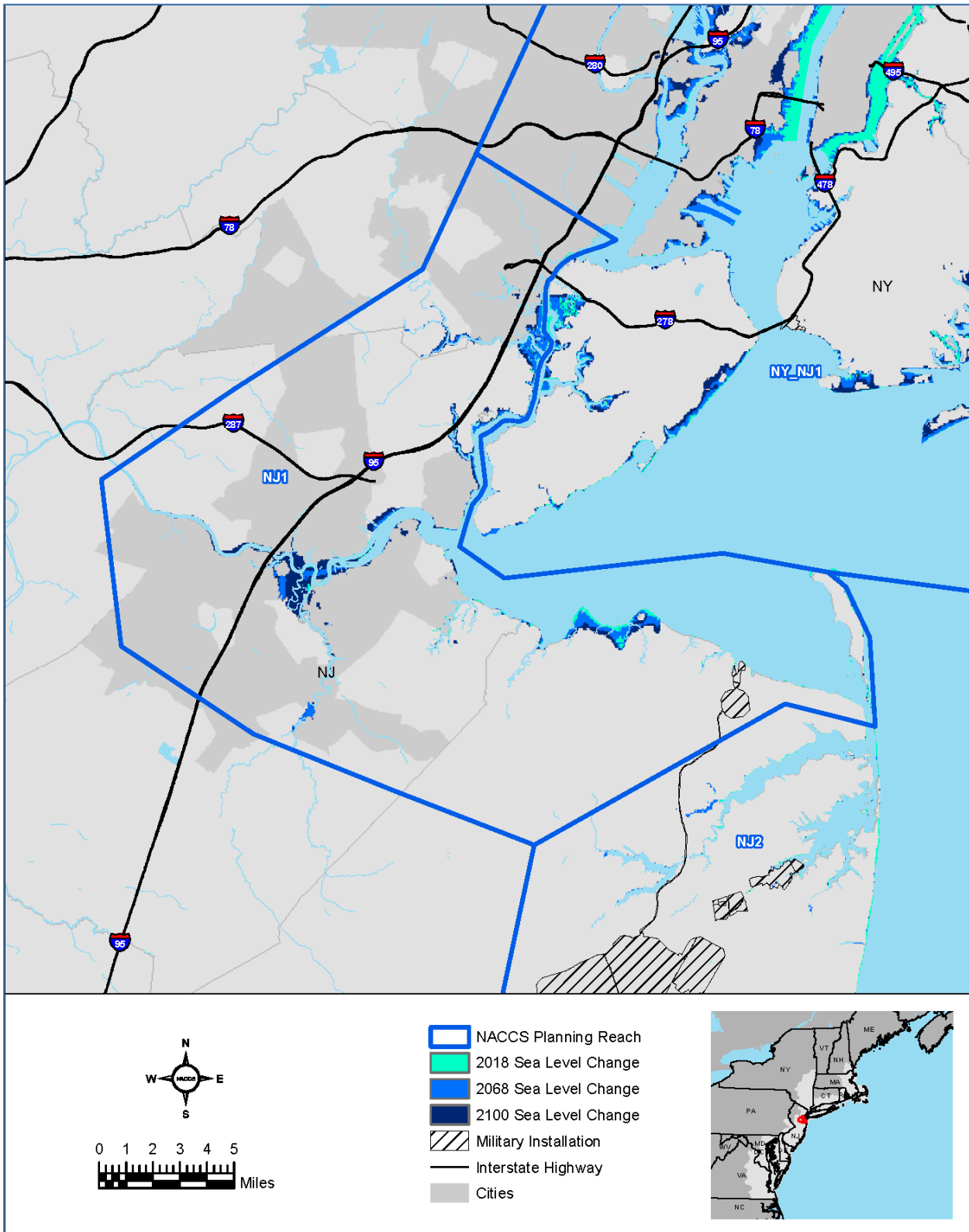


Figure IId-15: USACE High Scenario Future Mean Sea Level Change Inundation (NJ1)

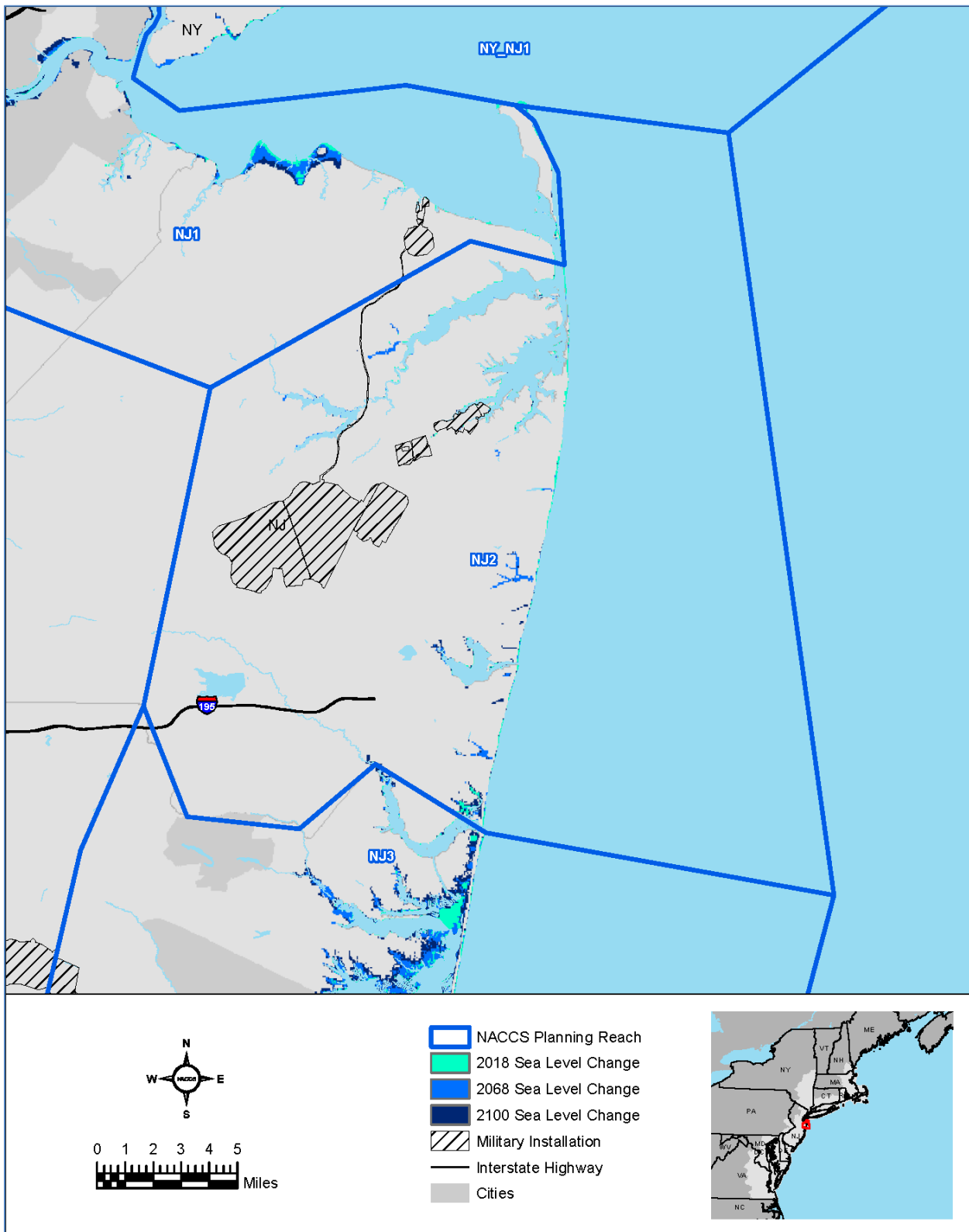


Figure IId-16: USACE High Scenario Future Mean Sea Level Change Inundation (NJ2)

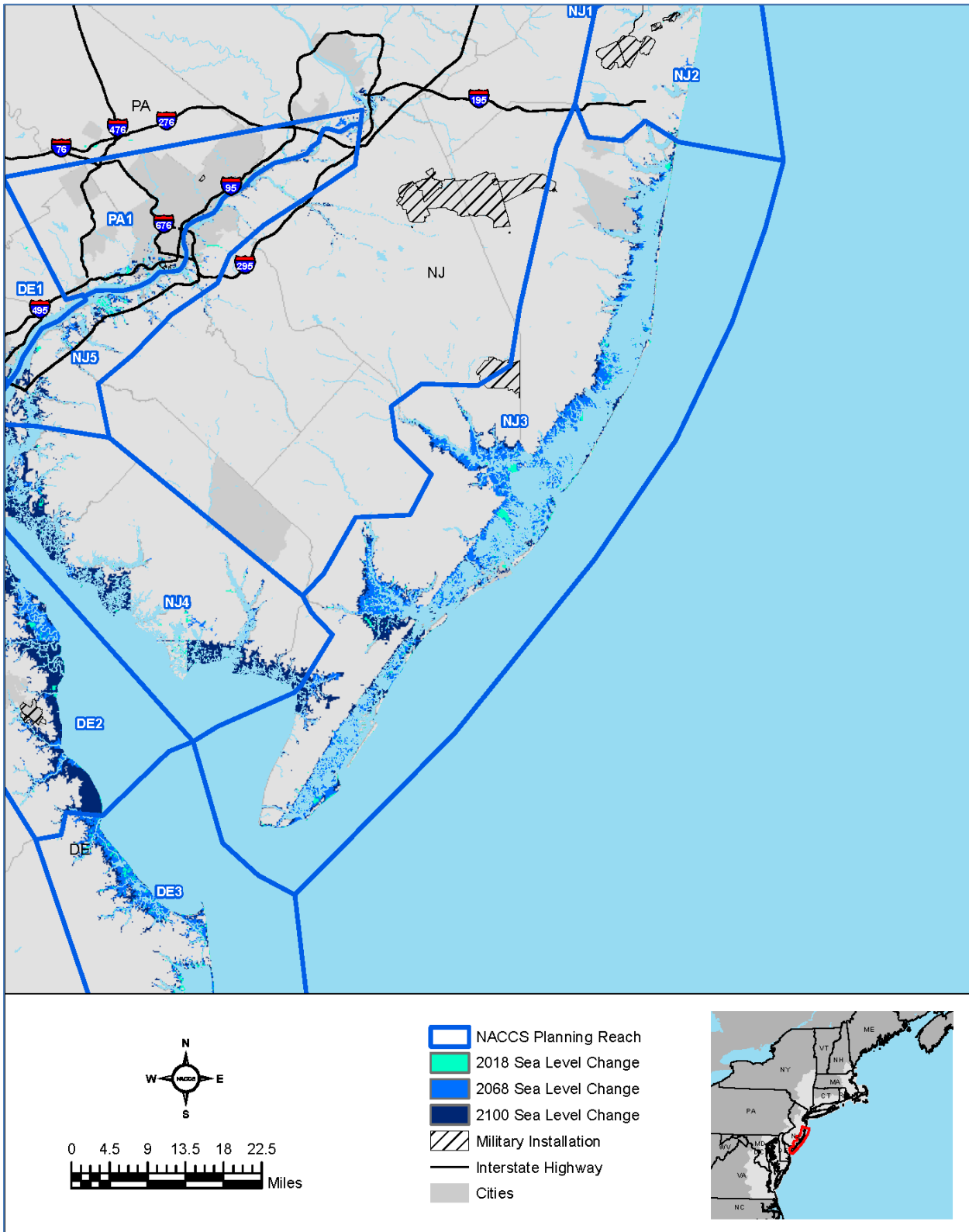


Figure IId-17: USACE High Scenario Future Mean Sea Level Change Inundation (NJ3)

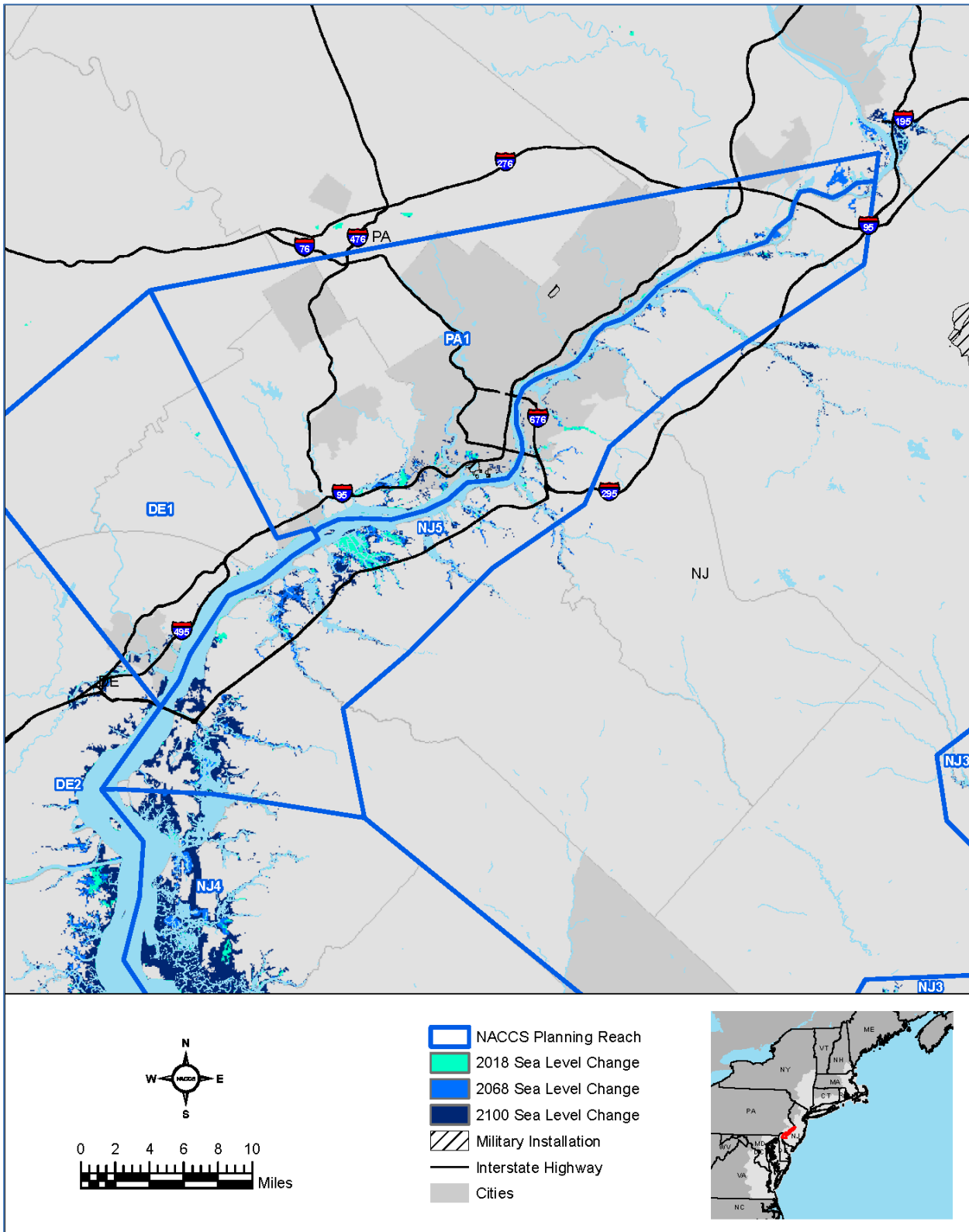


Figure IId-19: USACE High Scenario Future Mean Sea Level Change Inundation (NJ5)

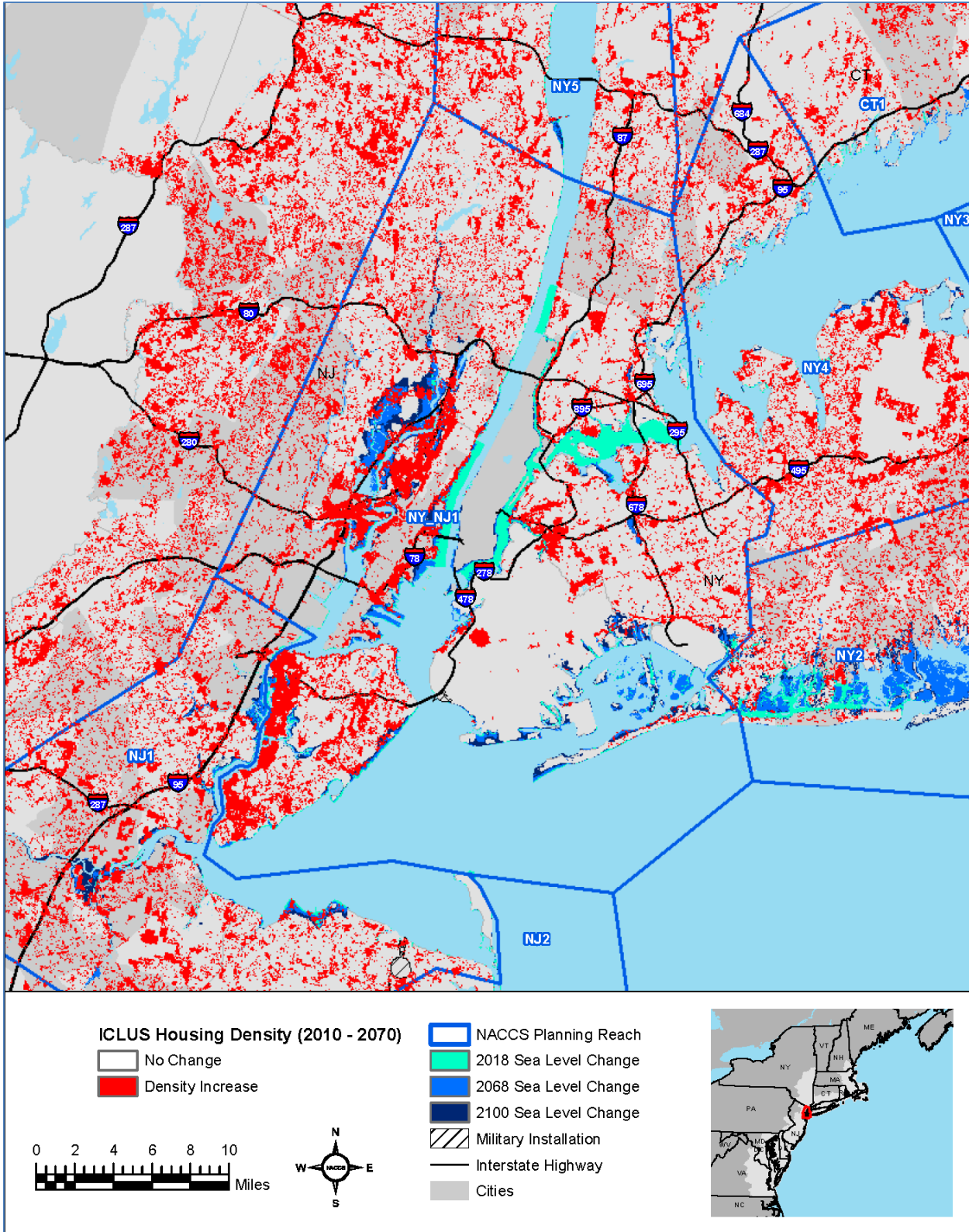


Figure IId-20: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NY-NJ1)

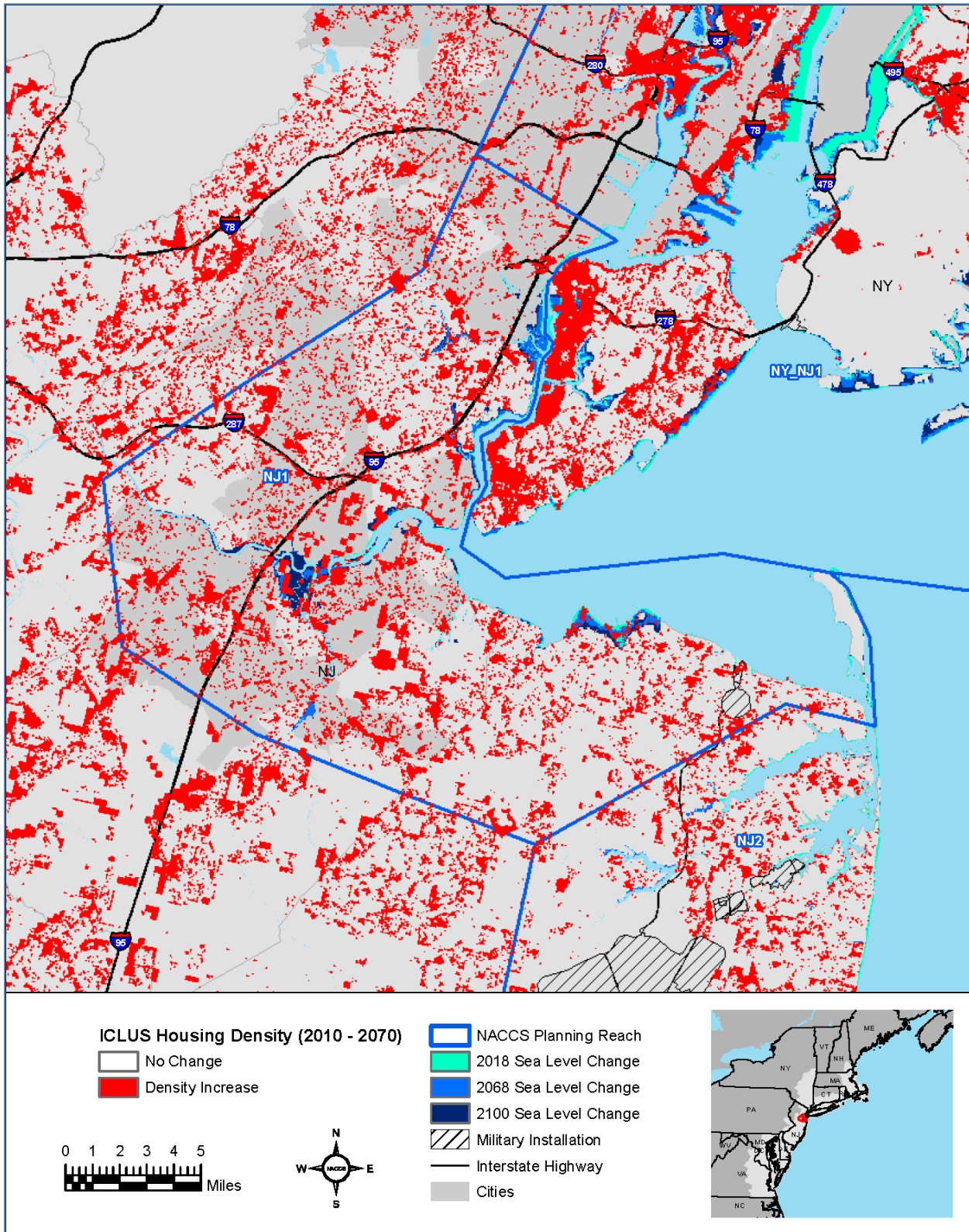


Figure IId-21: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NJ1)

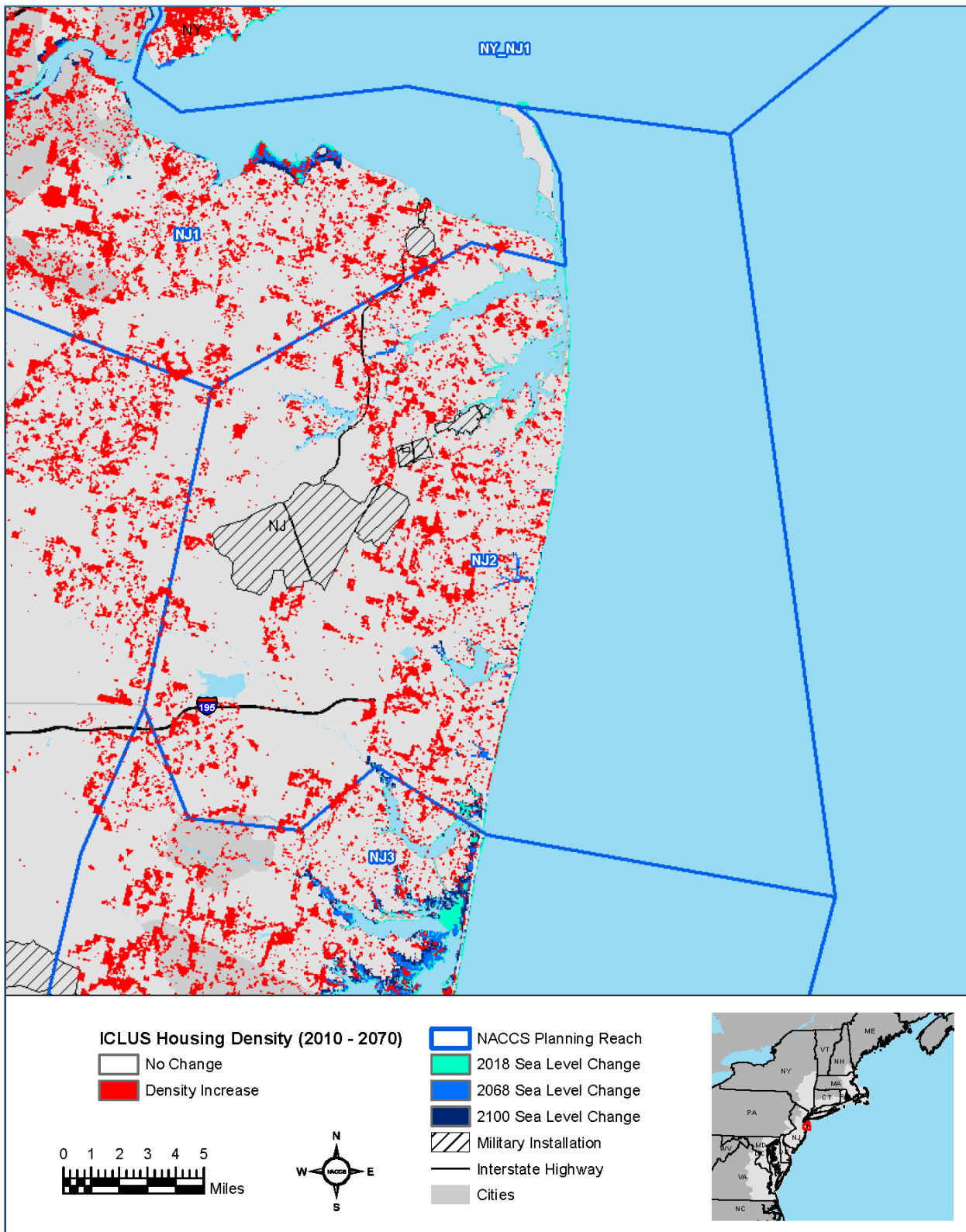
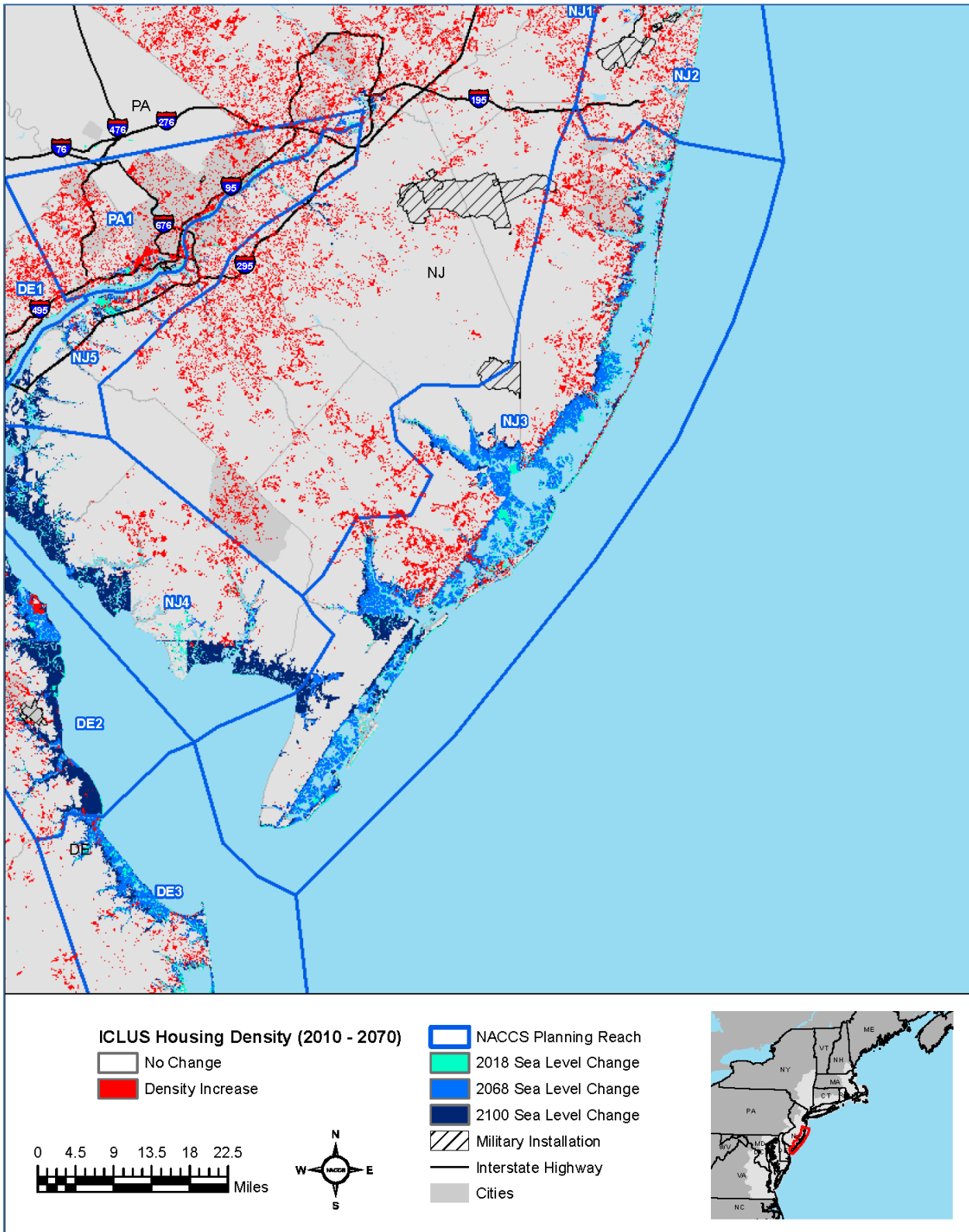


Figure IId-22: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NJ2)



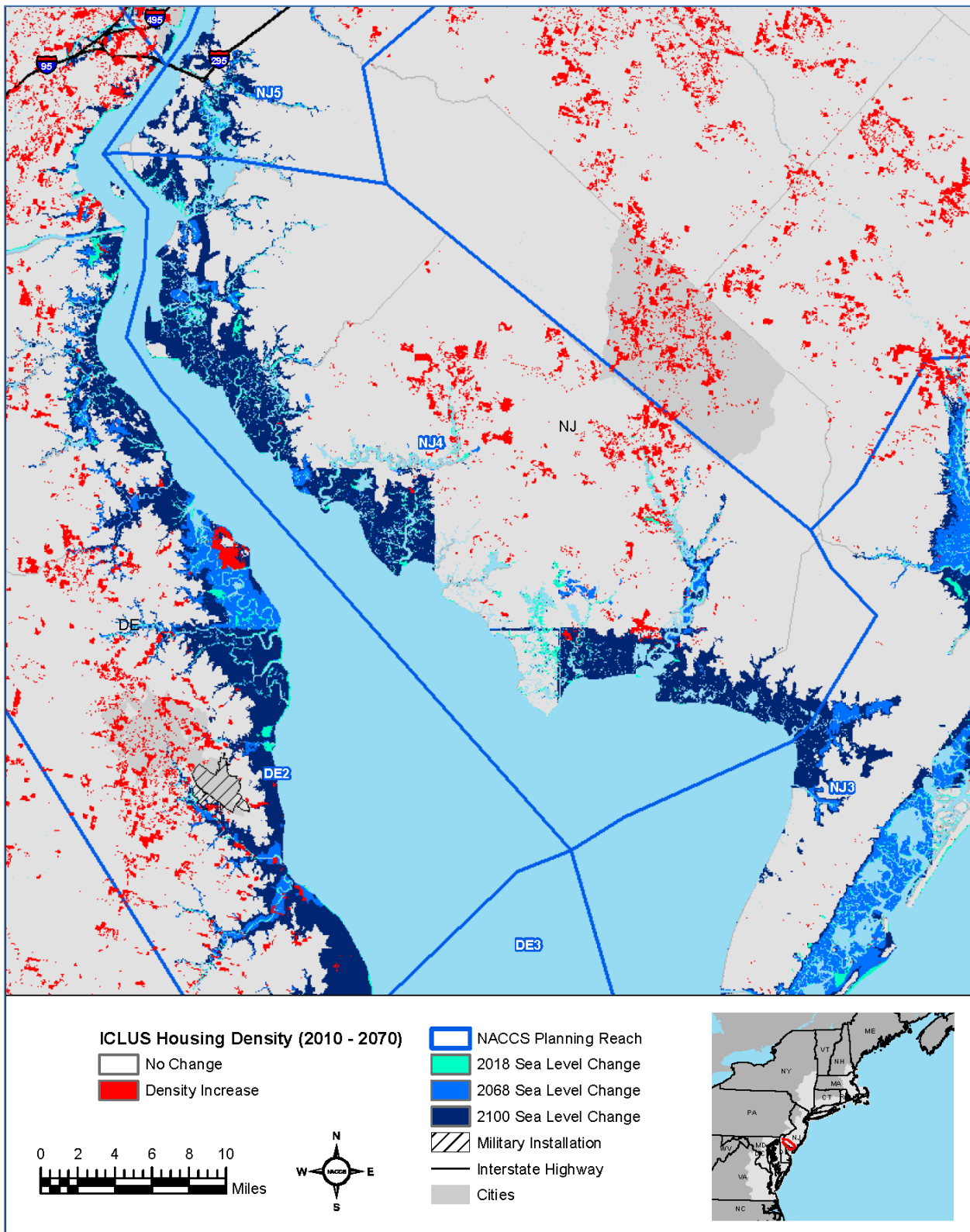


Figure IId-24: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NJ4)

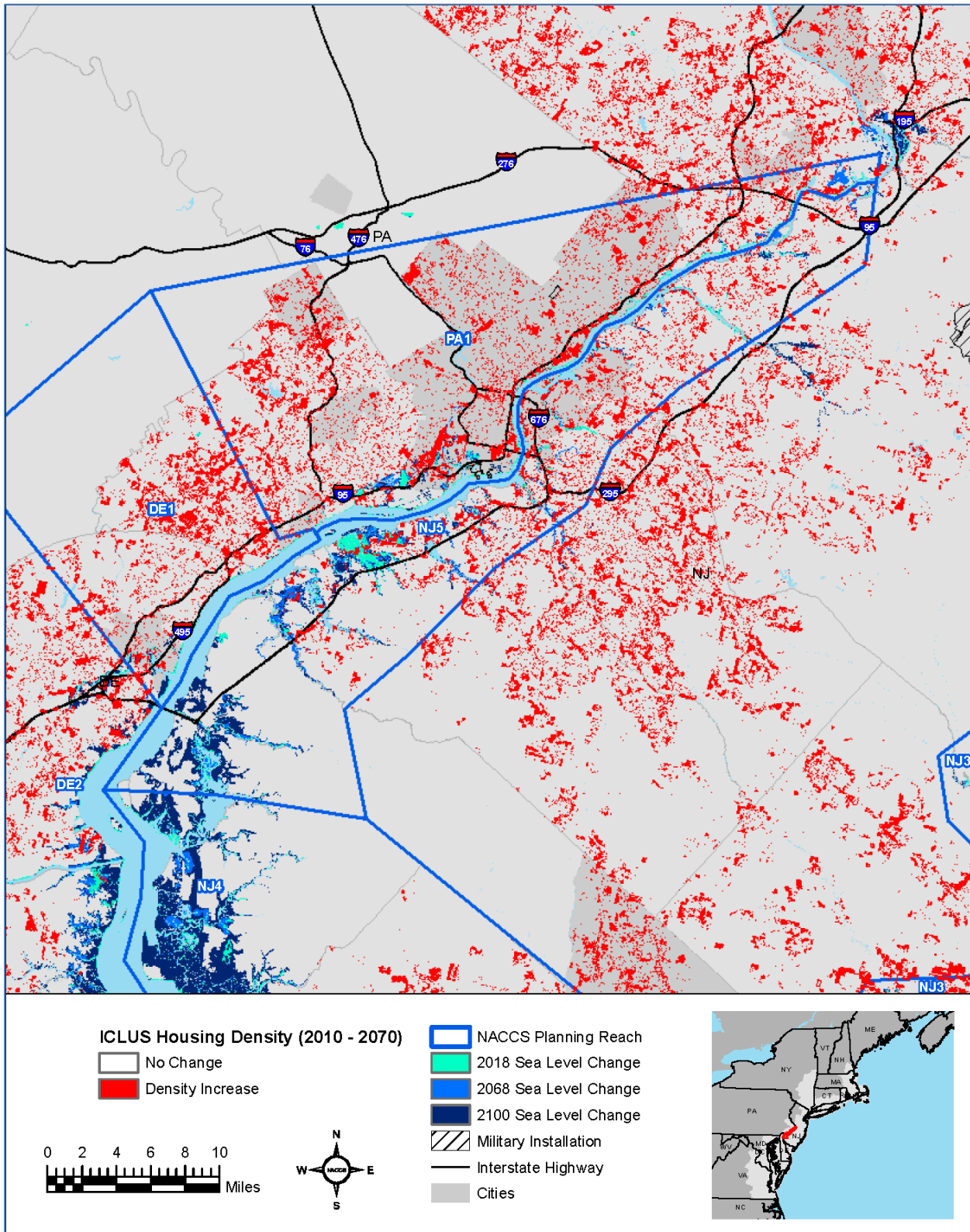


Figure IId-25: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (NJ5)

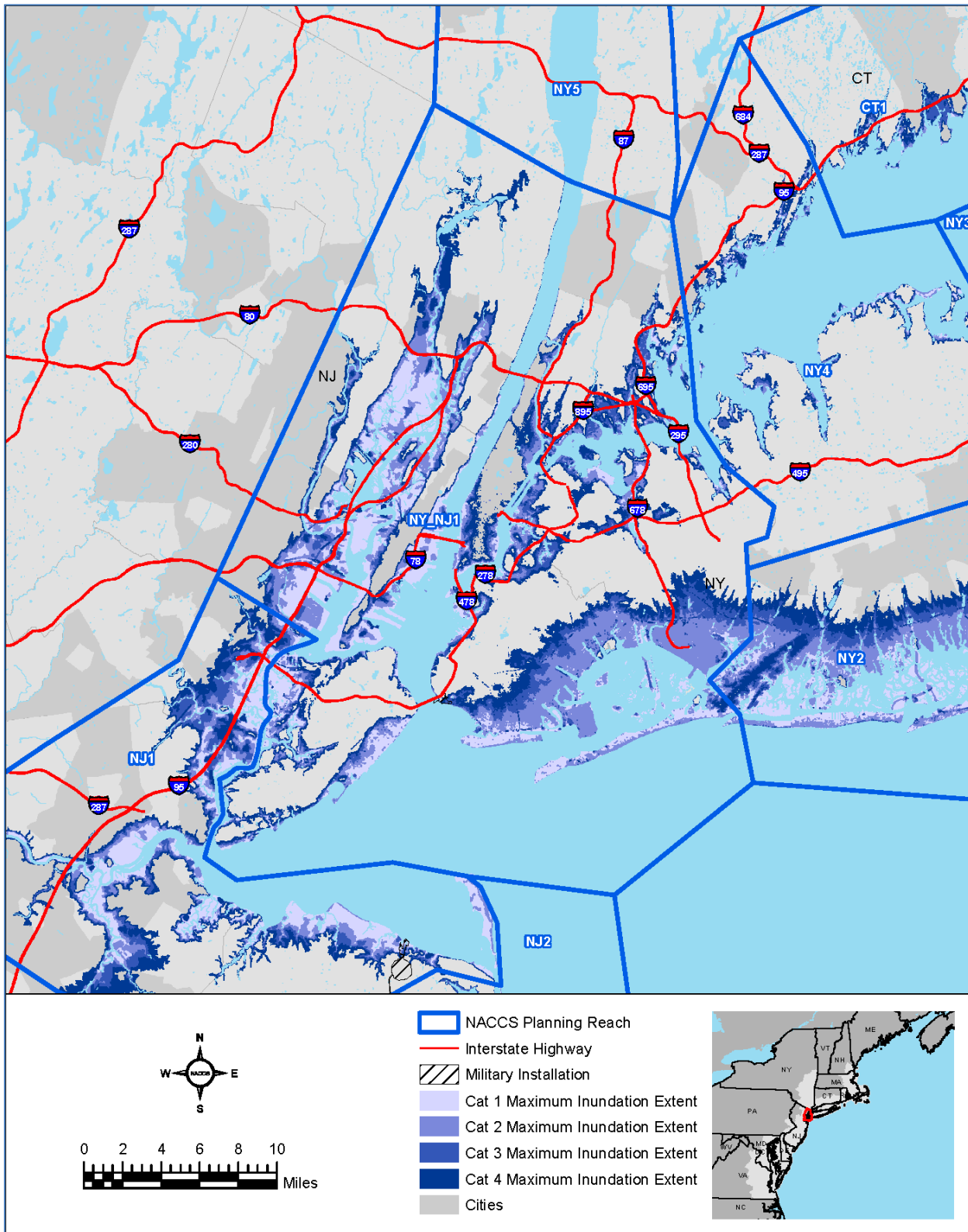


Figure IId-26: Impacted Area Category 1-4 Water Levels (NY-NJ1)

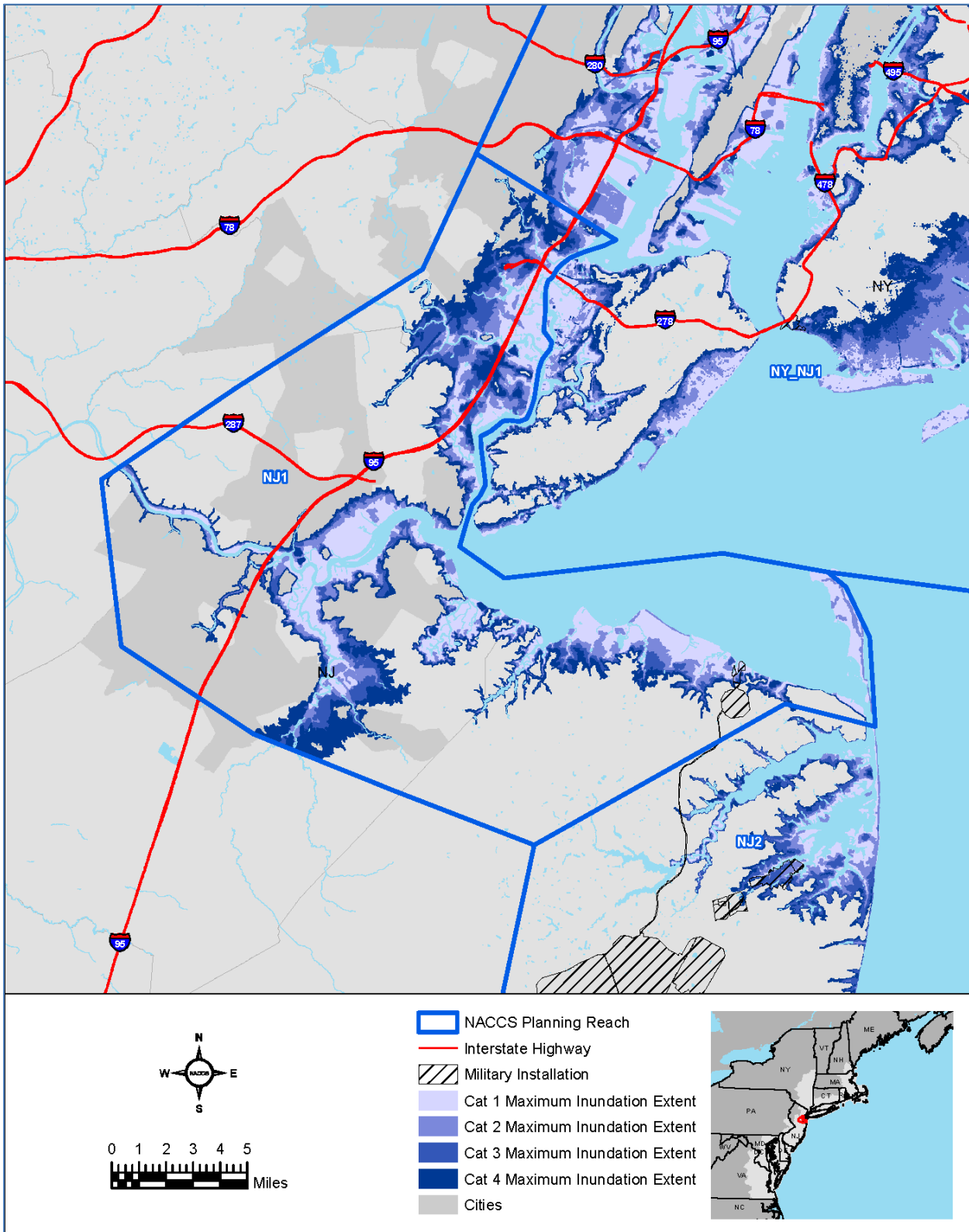


Figure IId-27: Impacted Area Category 1-4 Water Levels (NJ1)

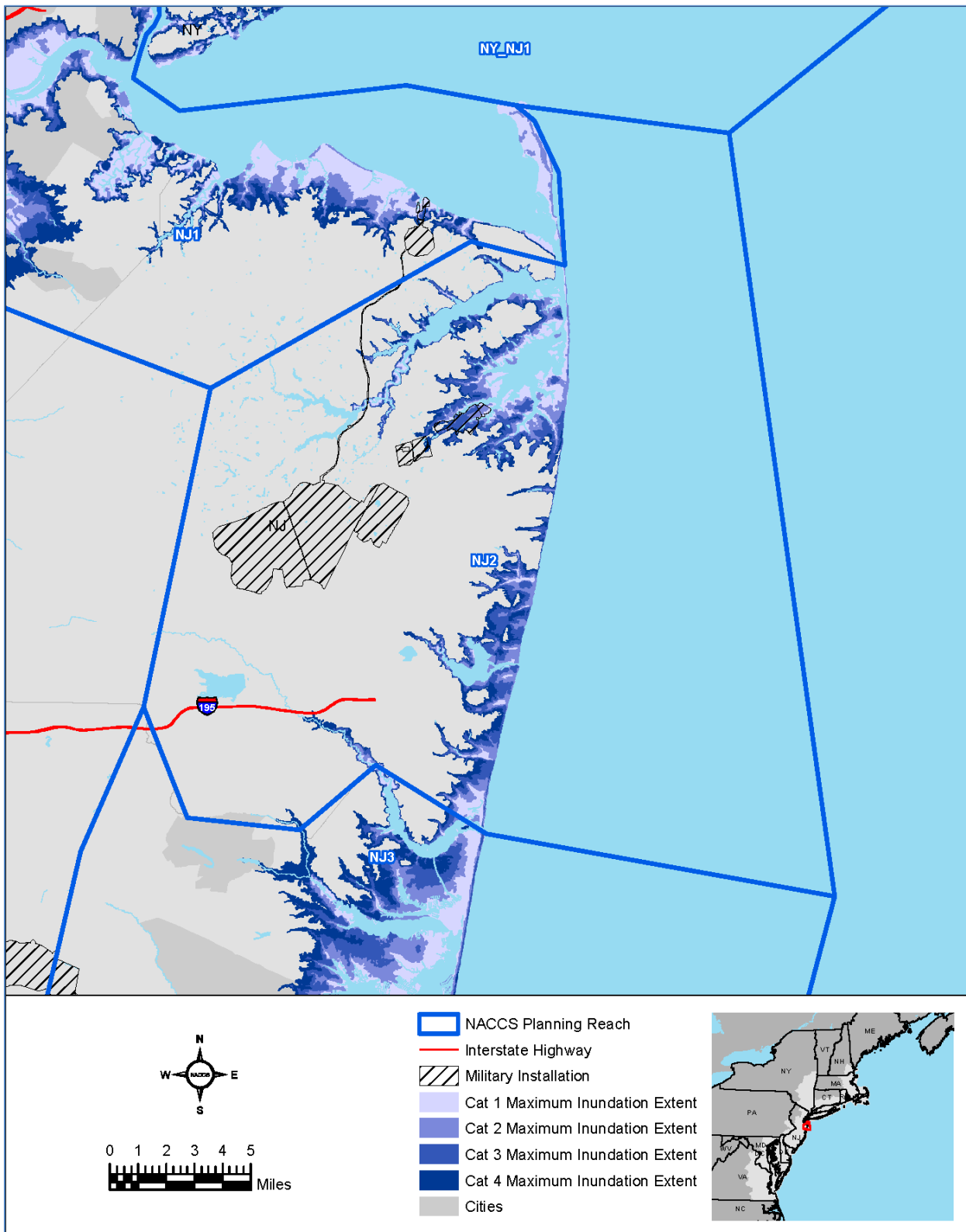


Figure IId-28: Impacted Area Category 1-4 Water Levels (NJ2)

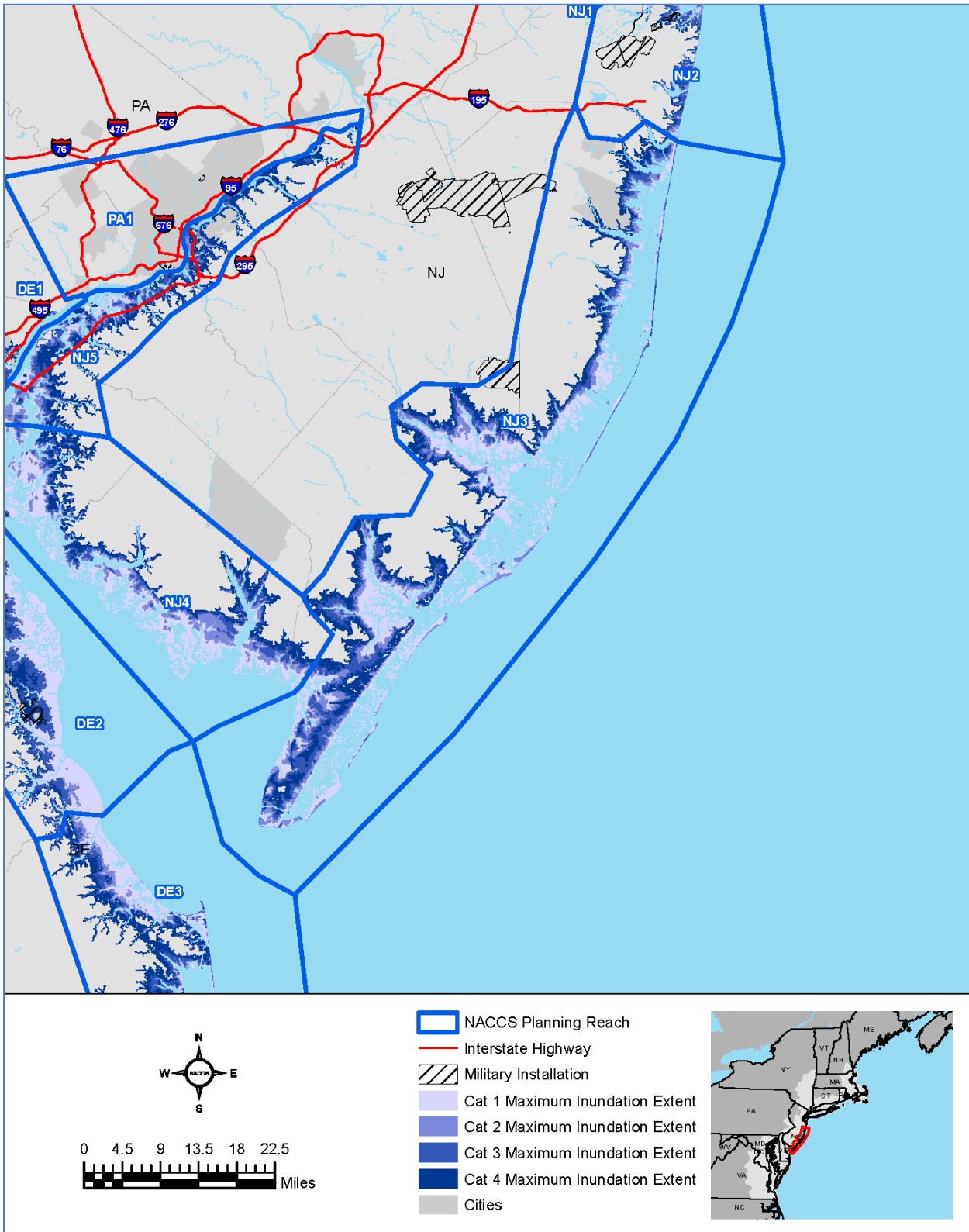


Figure IId-29: Impacted Area Category 1-4 Water Levels (NJ3)

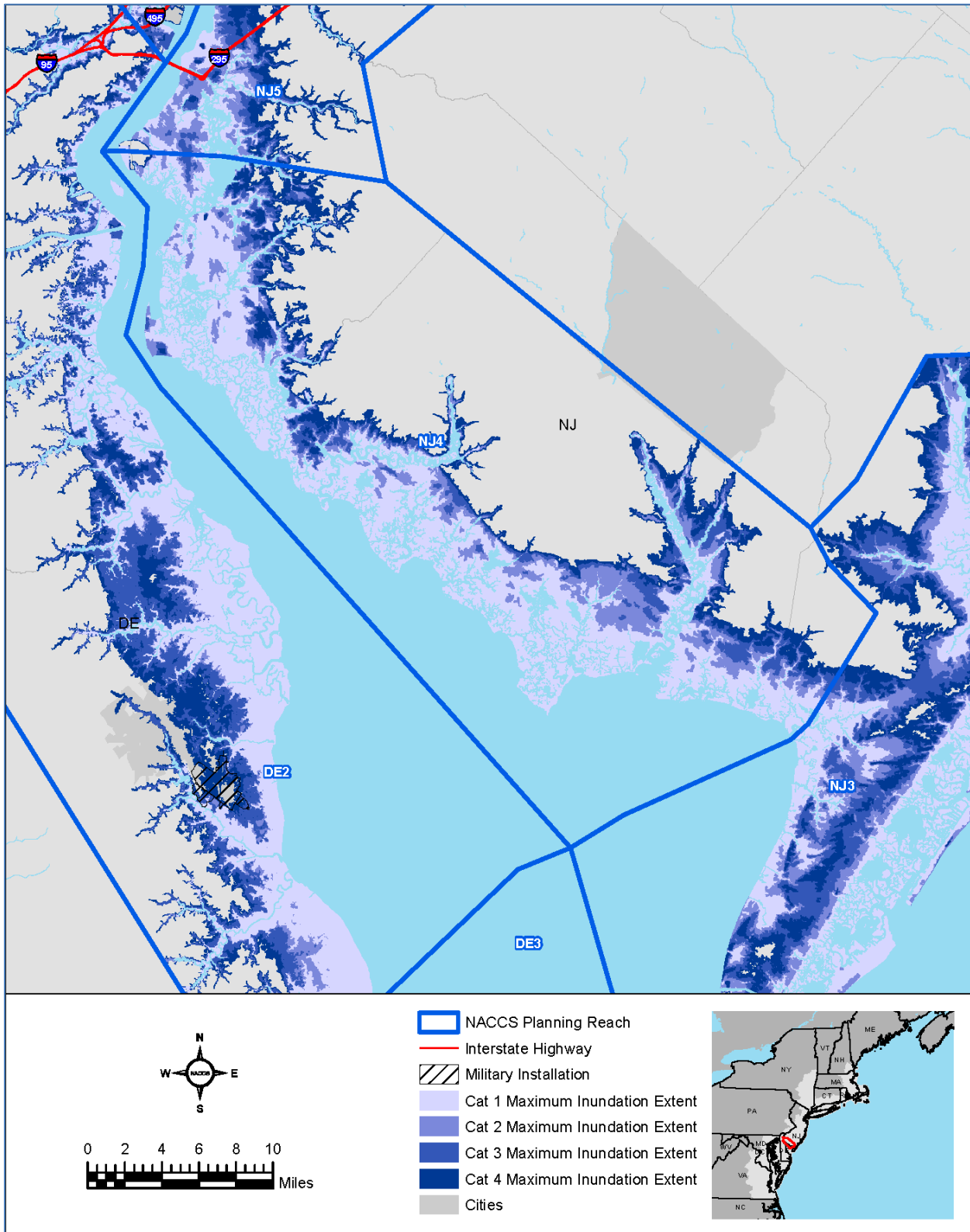


Figure IId-30: Impacted Area Category 1-4 Water Levels (NJ4)

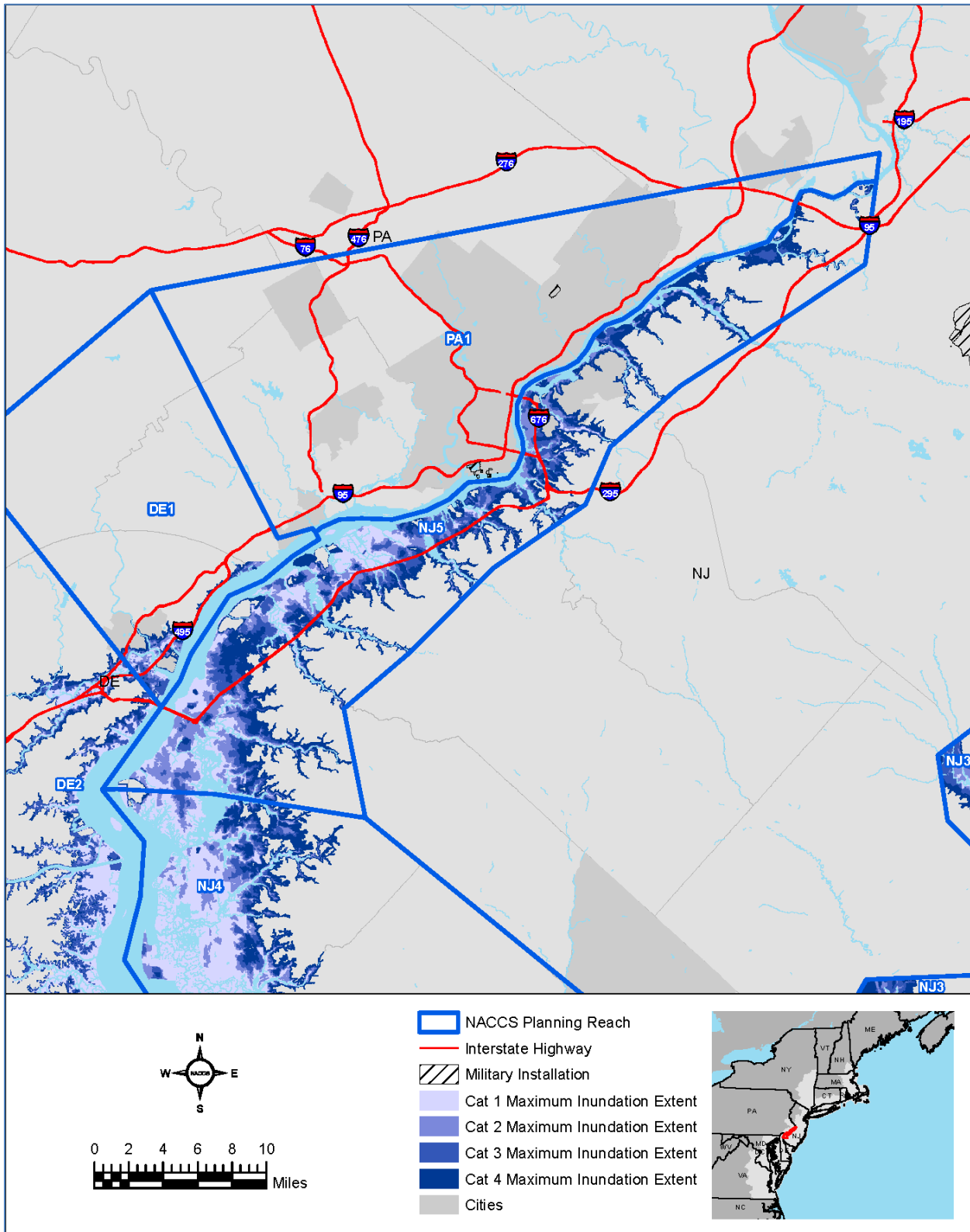


Figure IId-31: Impacted Area Category 1-4 Water Levels (NJ5)

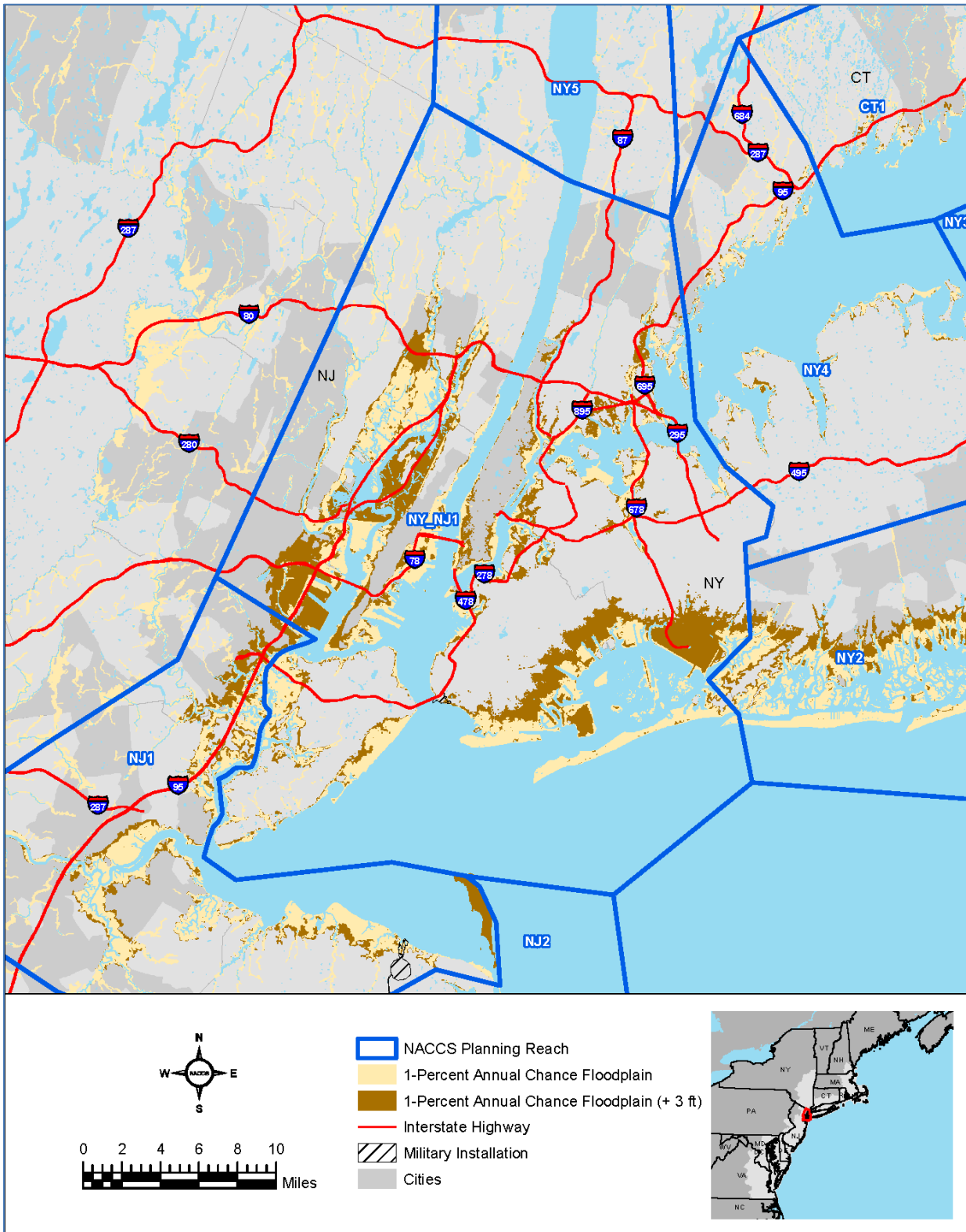


Figure IId-32: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NY-NJ1)

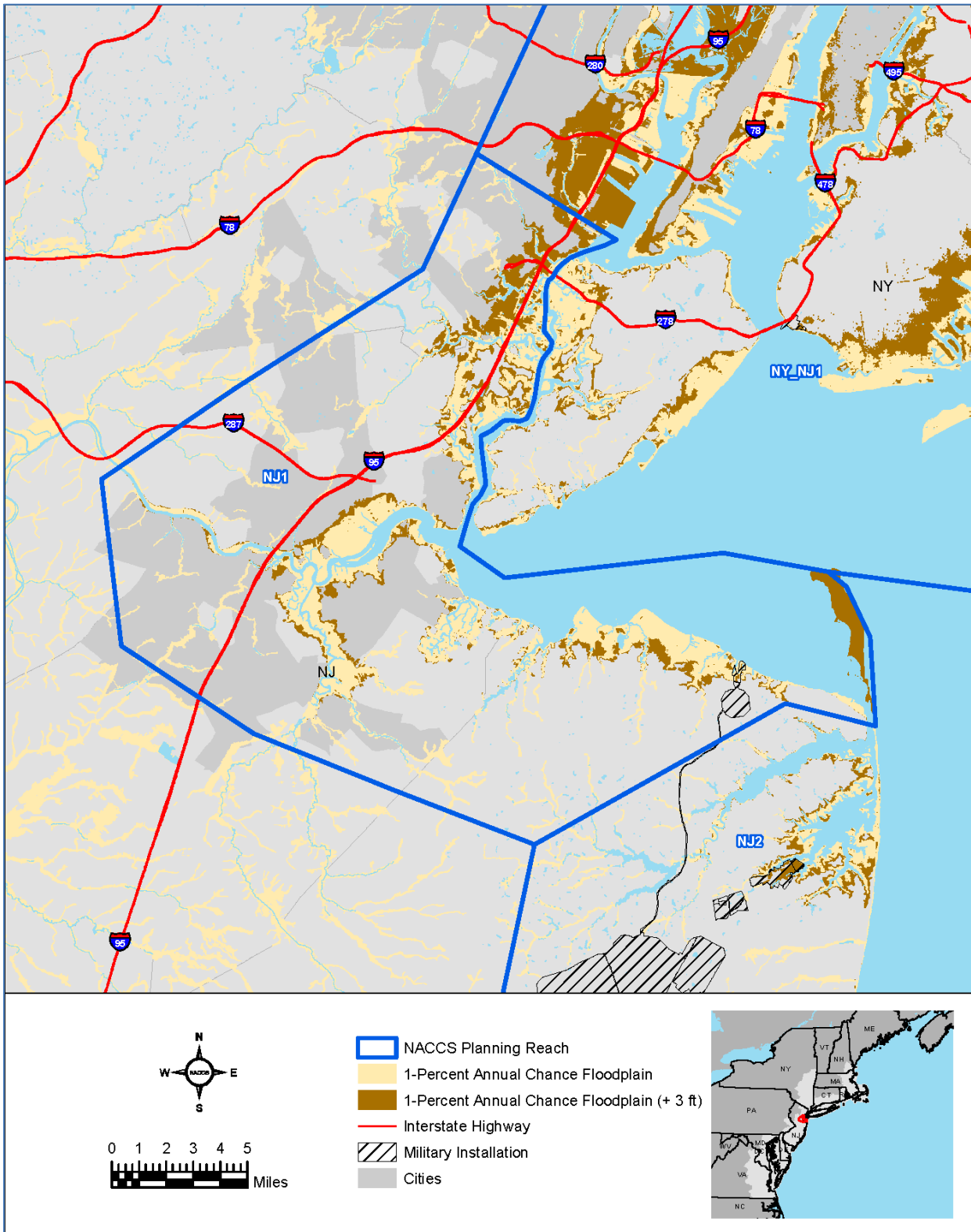


Figure IId-33: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NJ1)

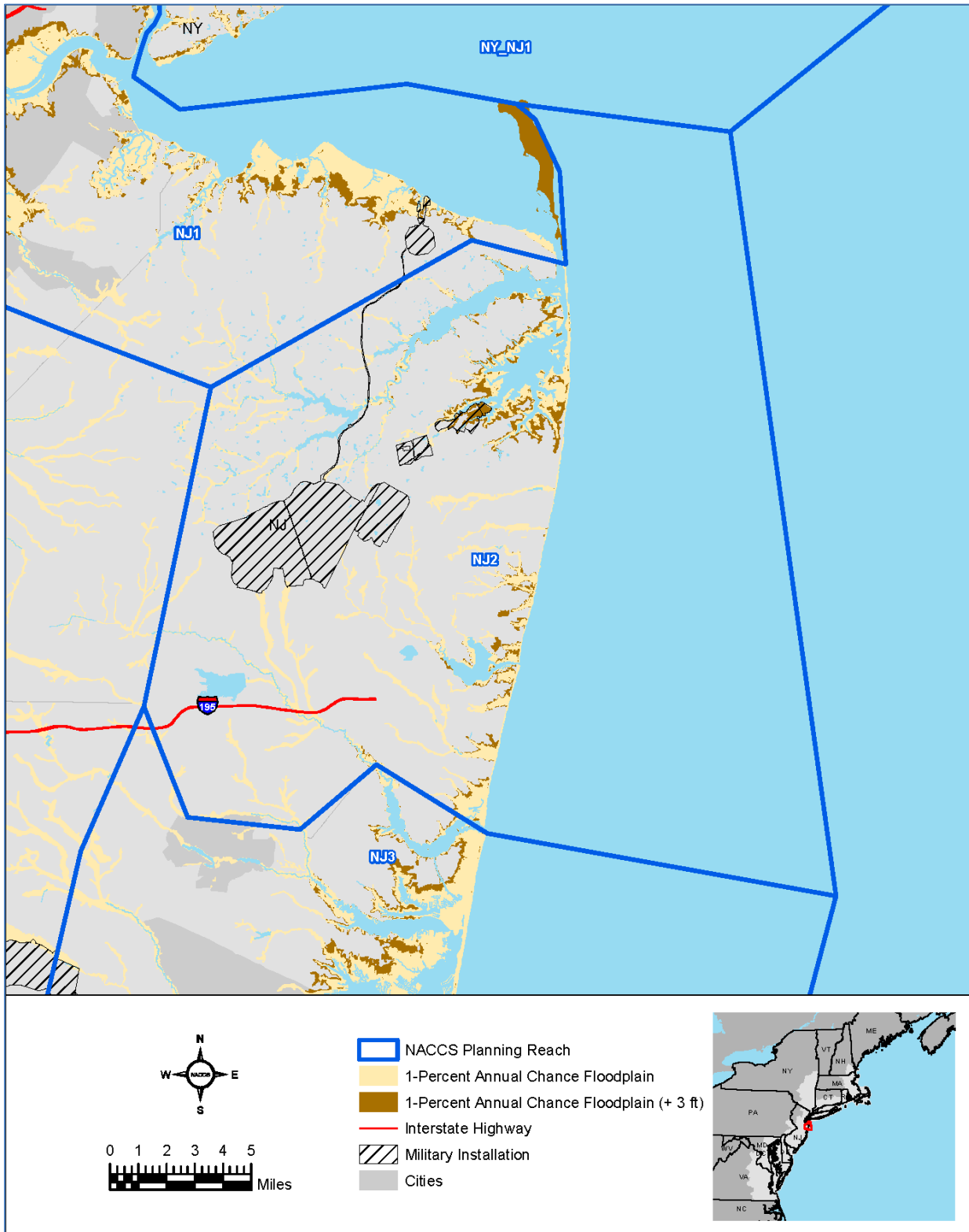


Figure IId-34: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NJ2)

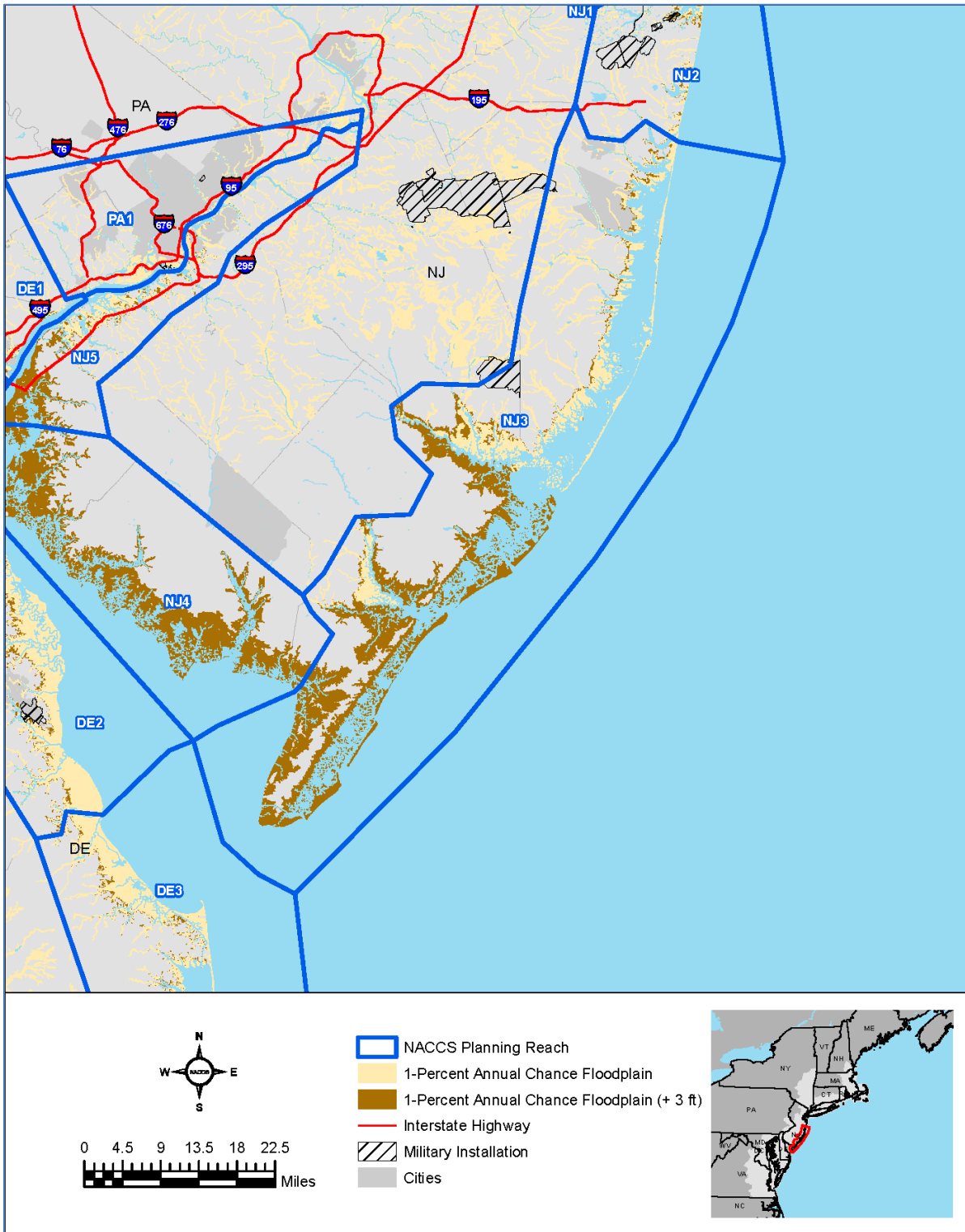


Figure IId-35: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NJ3)

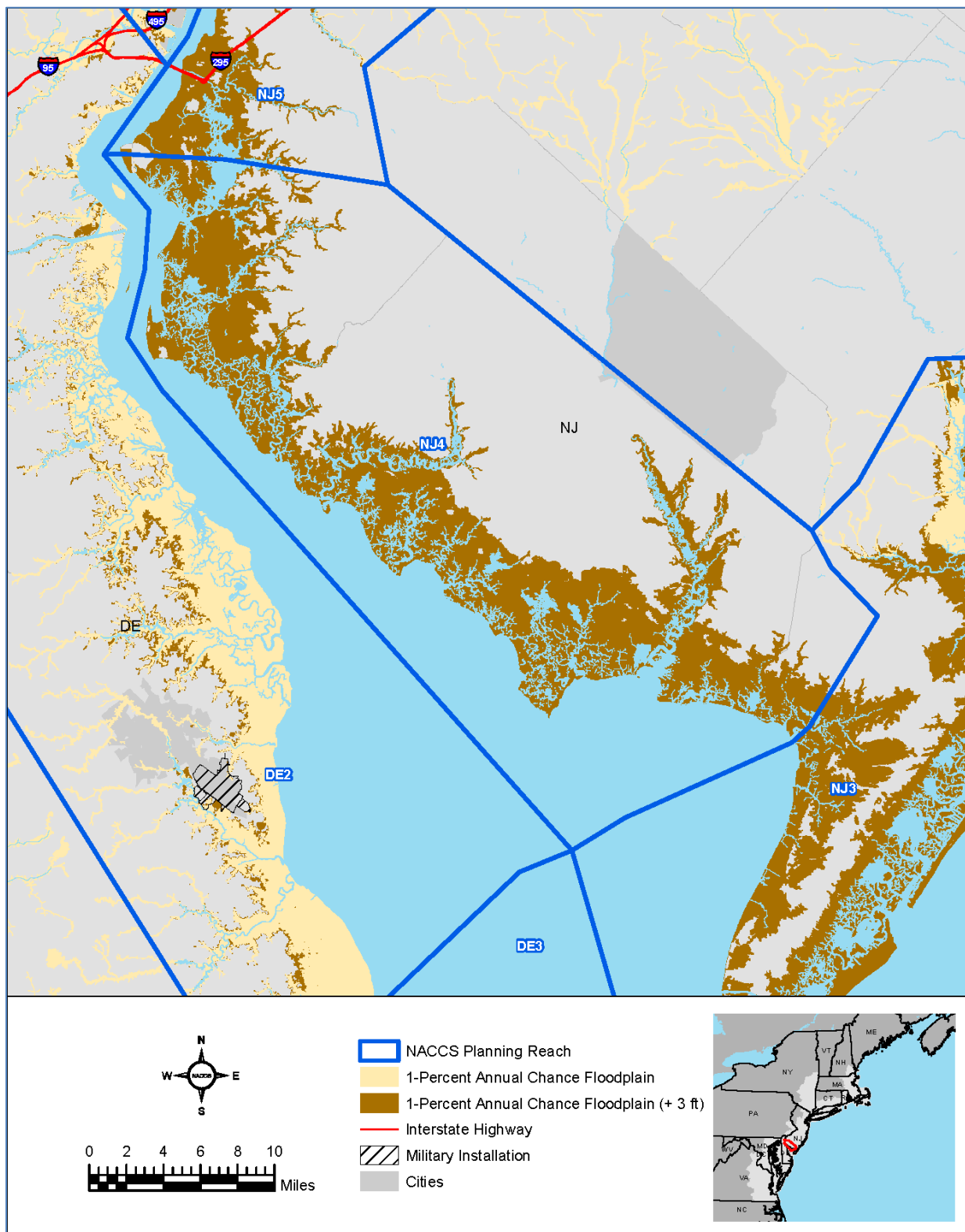


Figure IId-36: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NJ4)

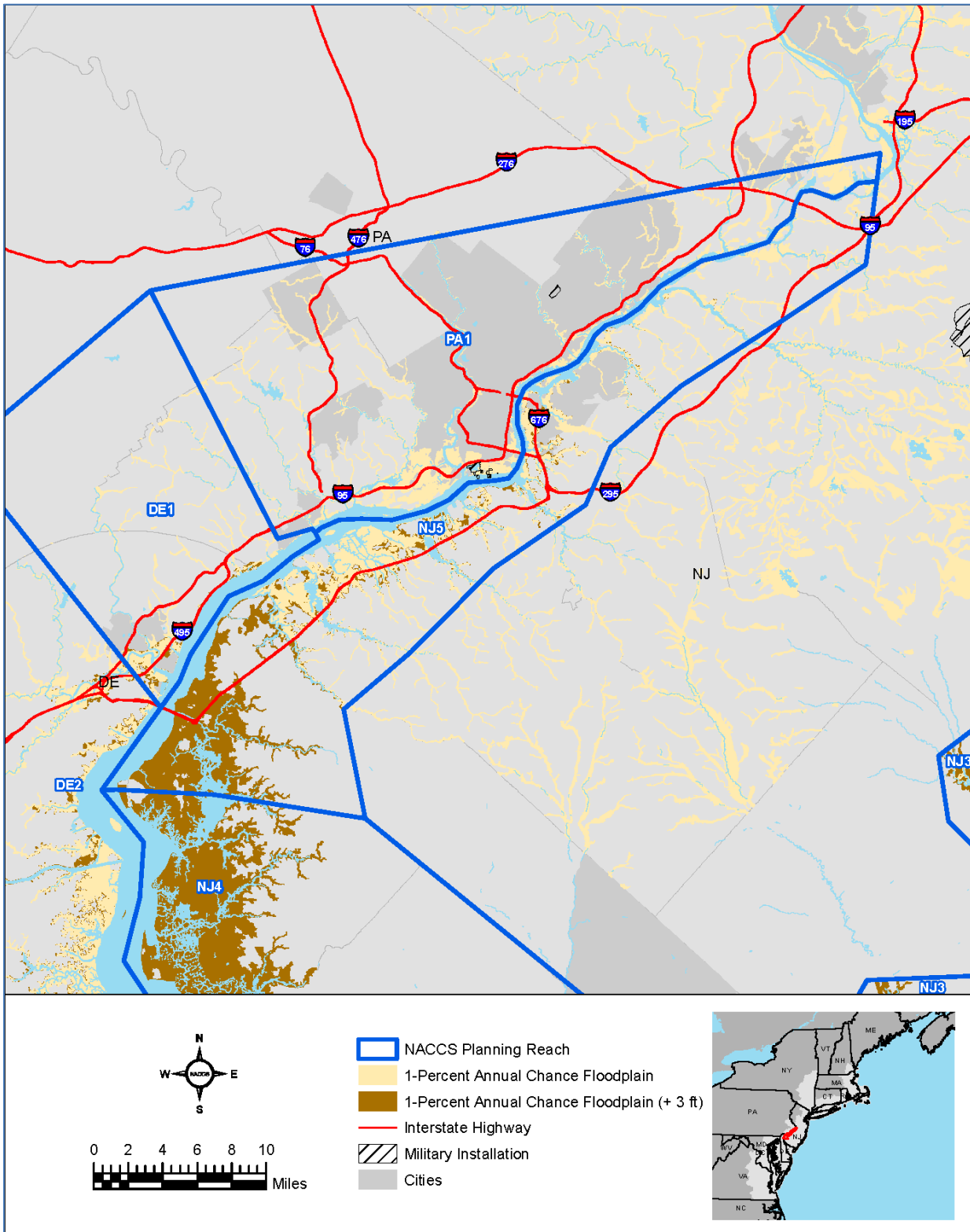


Figure IId-37: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (NJ5)

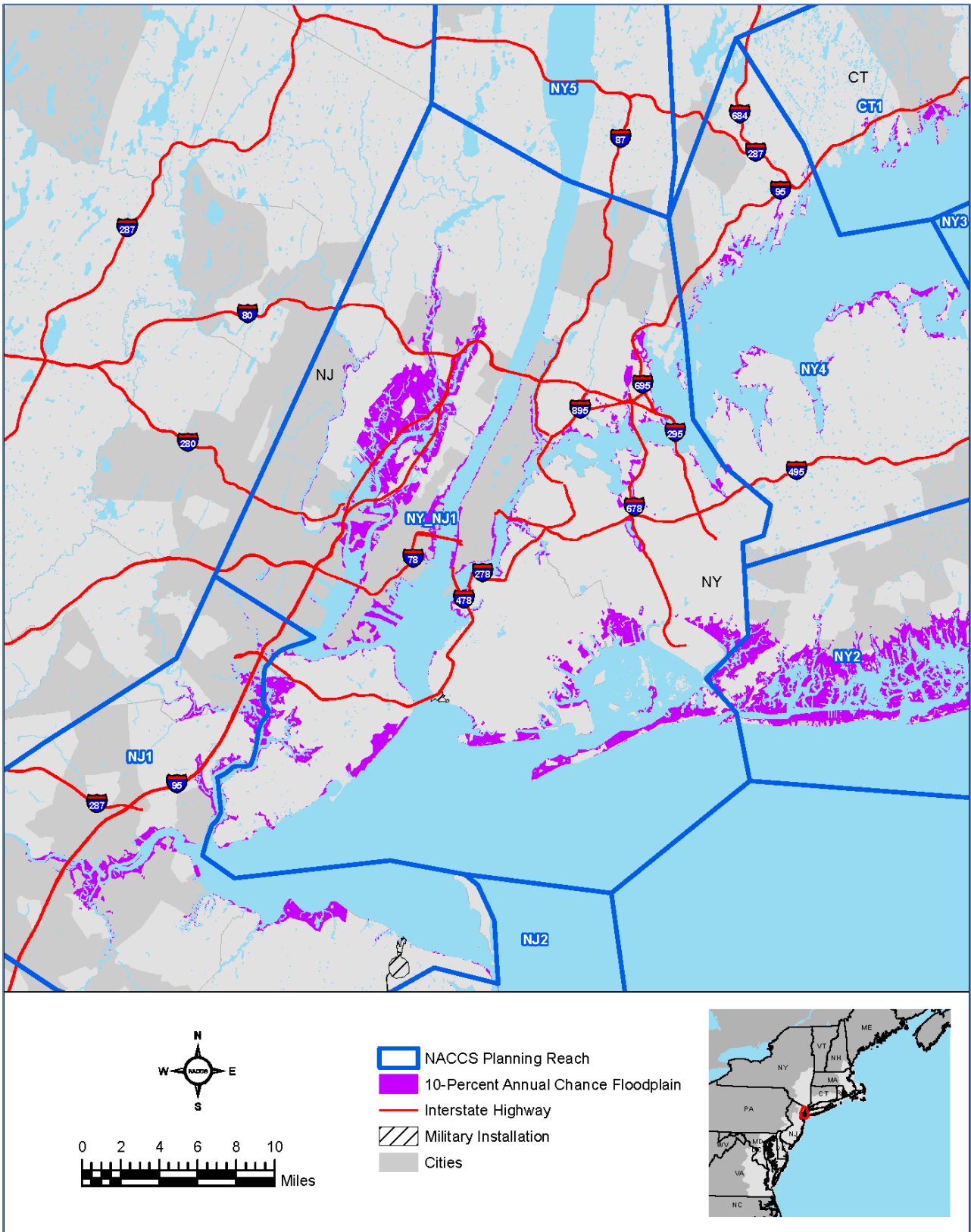


Figure IId-38: Impacted Area 10-Percent Flood Water Surface (NY-NJ1)

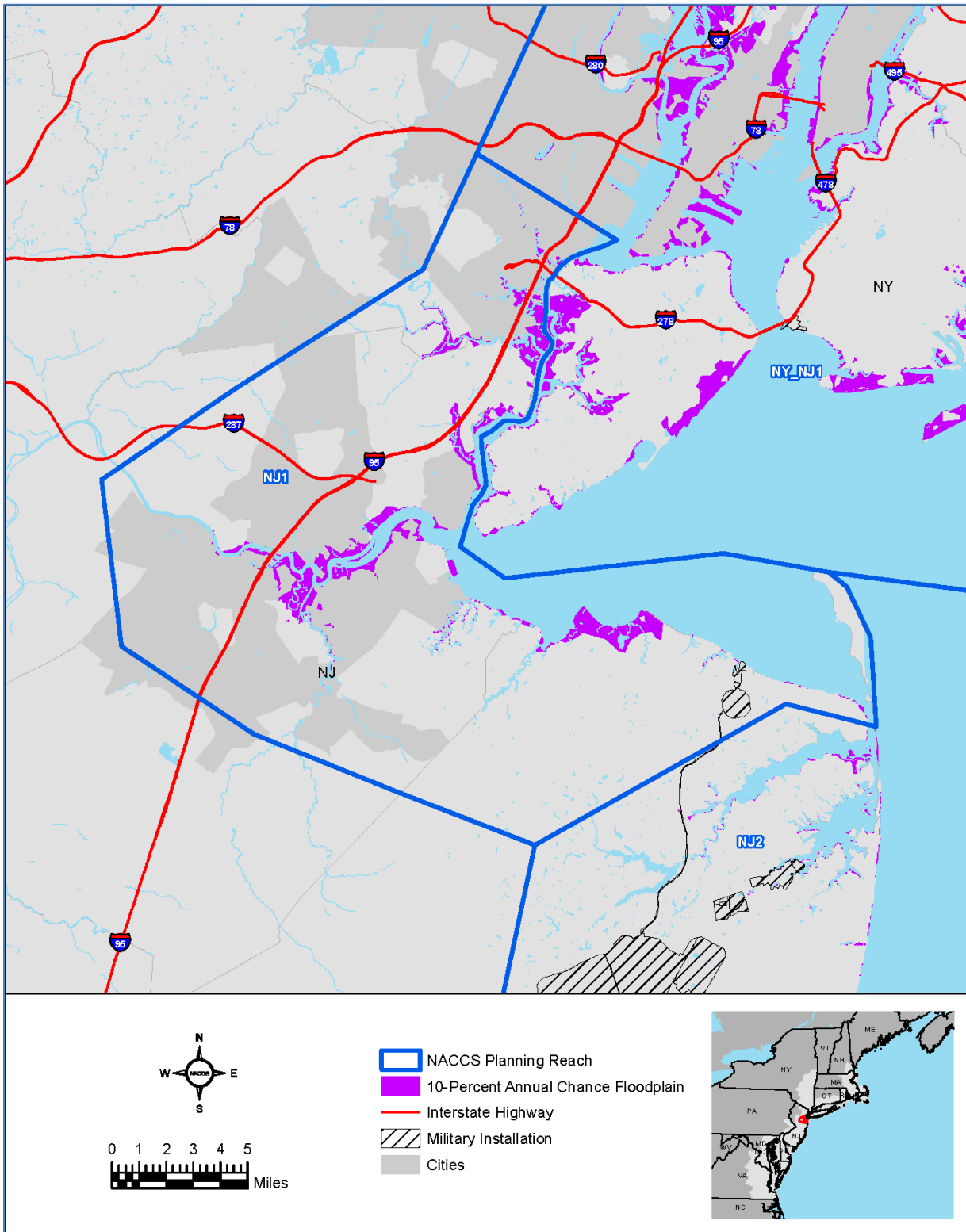


Figure IId-39: Impacted Area 10-Percent Flood Water Surface (NJ1)

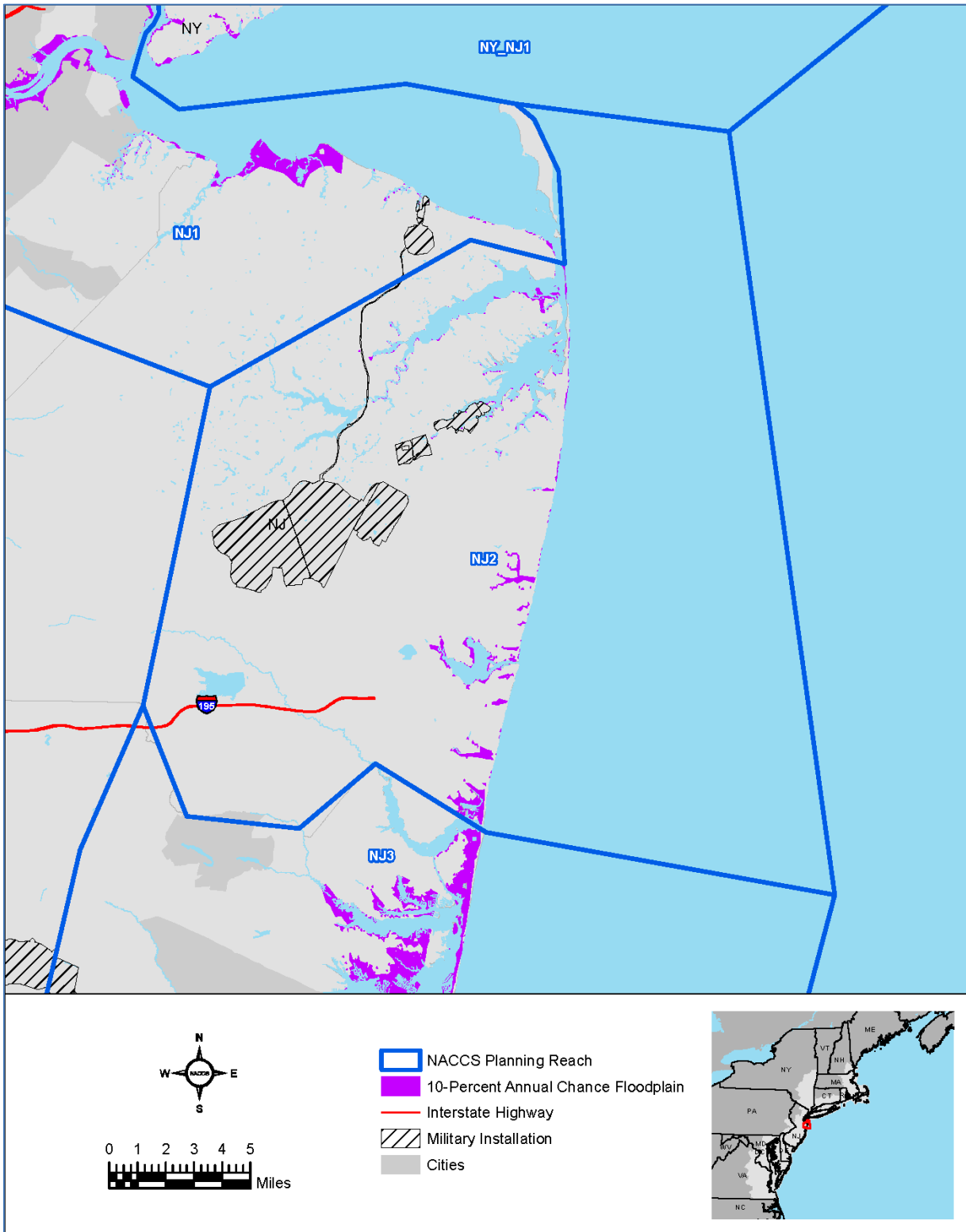


Figure II d-40: Impacted Area 10-Percent Flood Water Surface (NJ2)

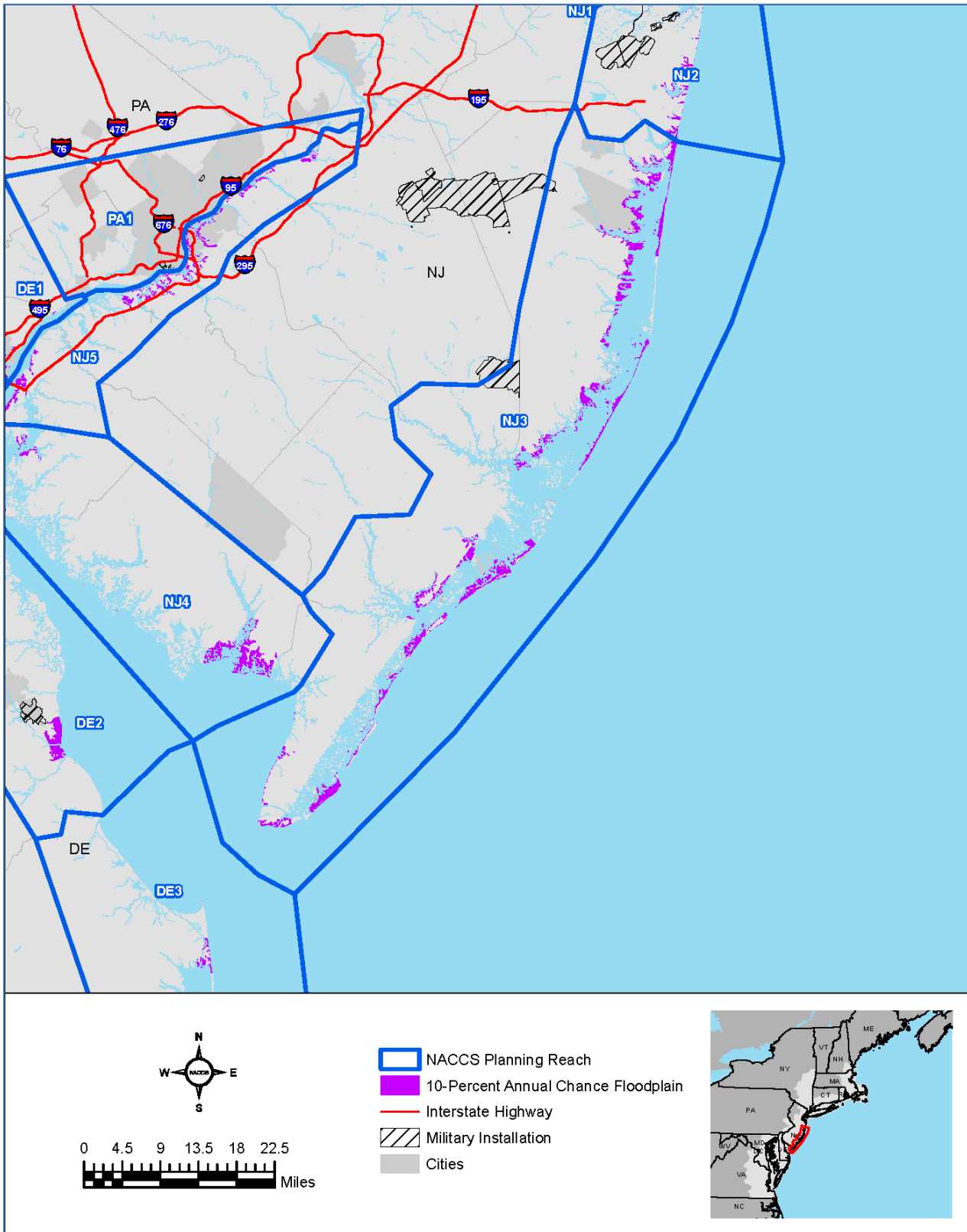


Figure IId-41: Impacted Area 10-Percent Flood Water Surface (NJ3)

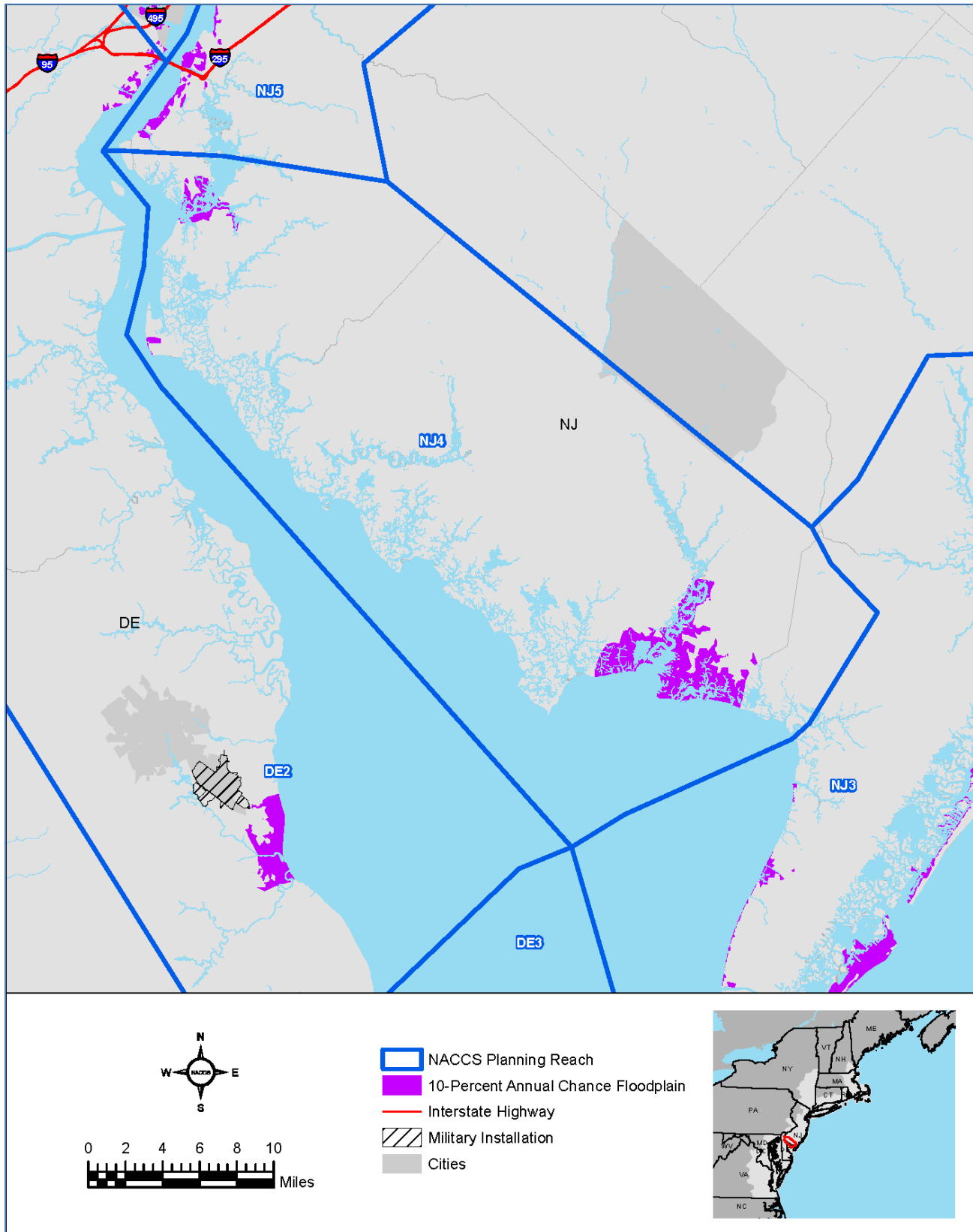


Figure IId-42: Impacted Area 10-Percent Flood Water Surface (NJ4)

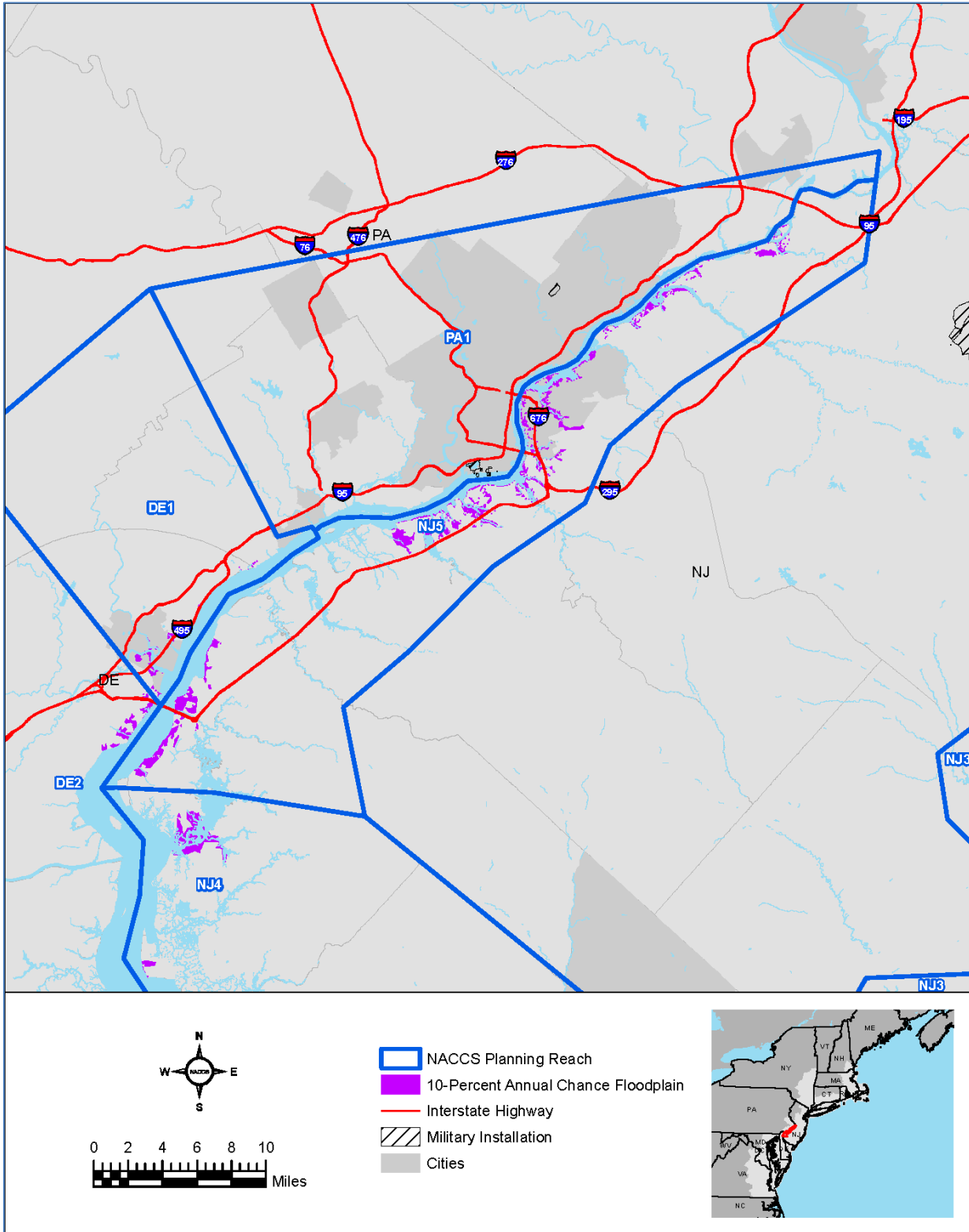


Figure IId-43: Impacted Area 10-Percent Flood Water Surface (NJ5)

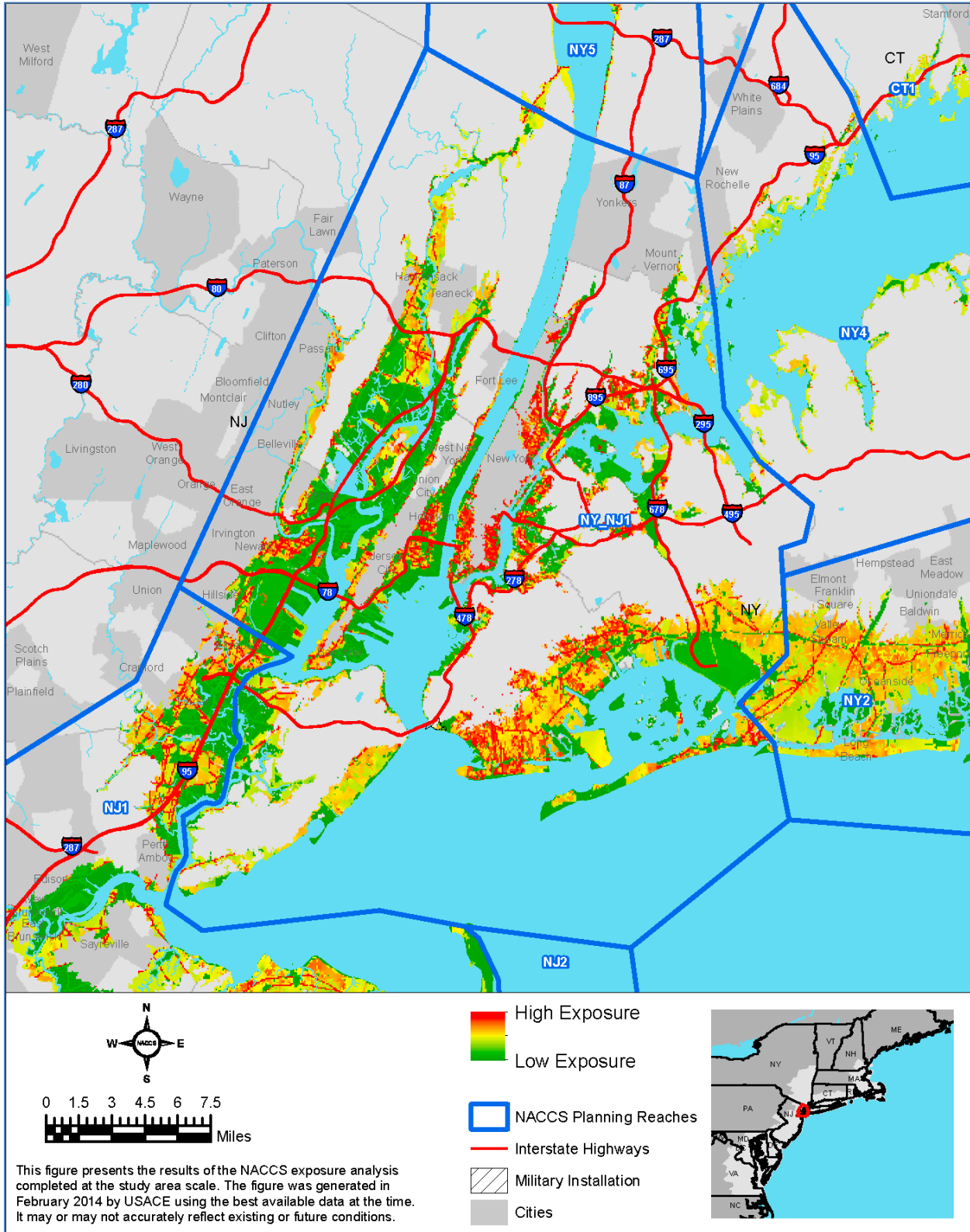


Figure 11d-44: Population and Infrastructure Exposure Index (NY-NJ1)



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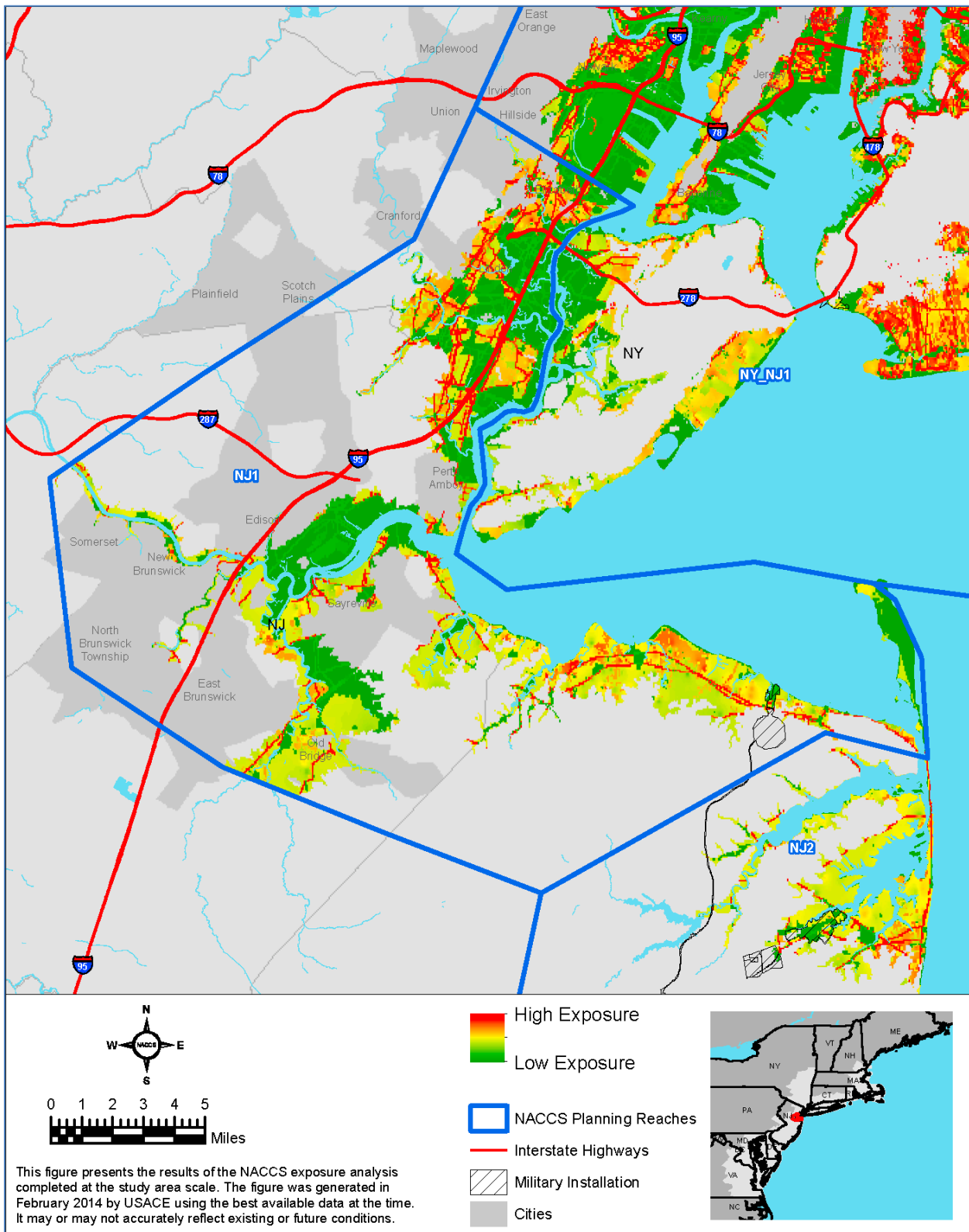


Figure IId-45: Population and Infrastructure Exposure Index (NJ1)

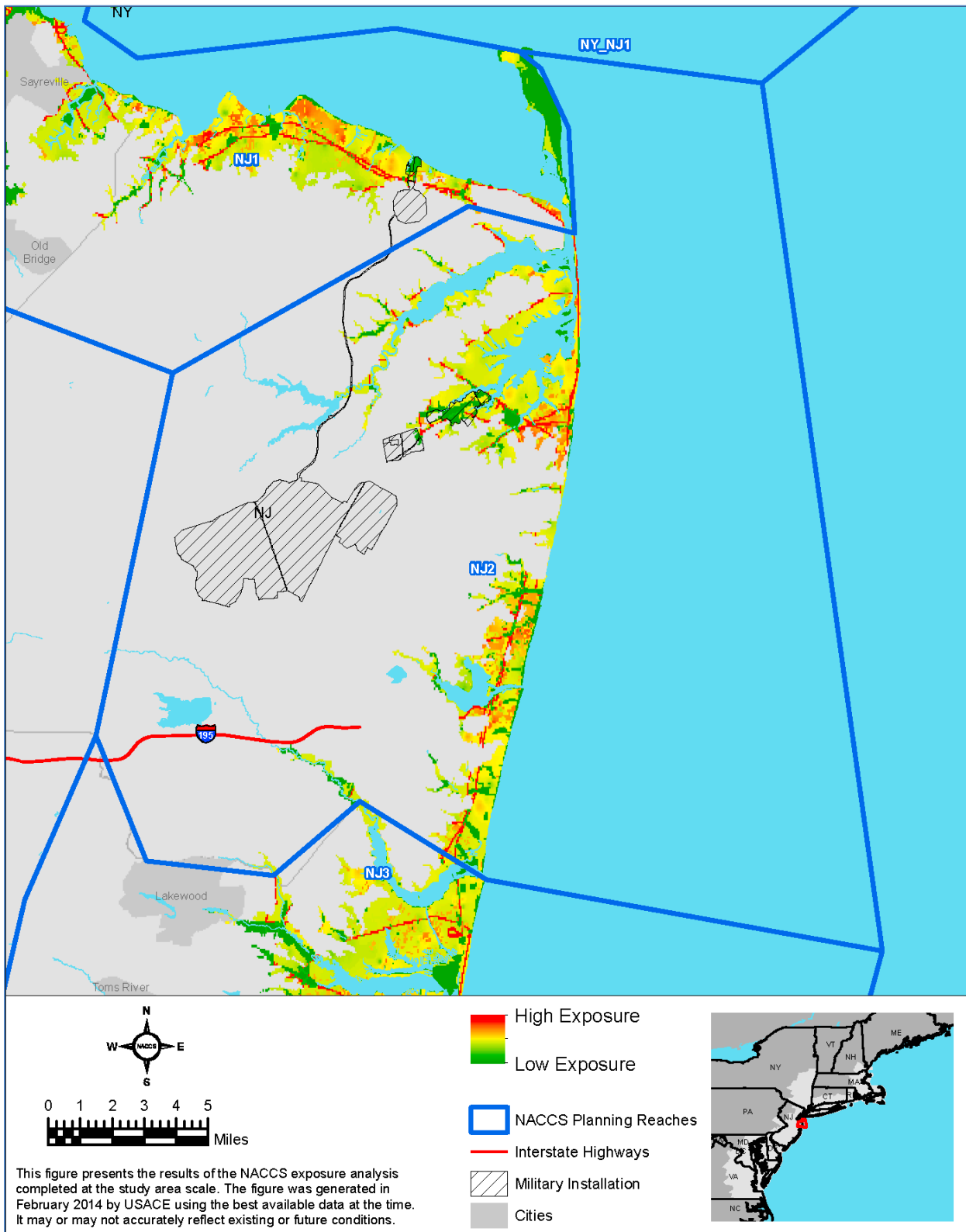


Figure IId-46: Population and Infrastructure Exposure Index (NJ2)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

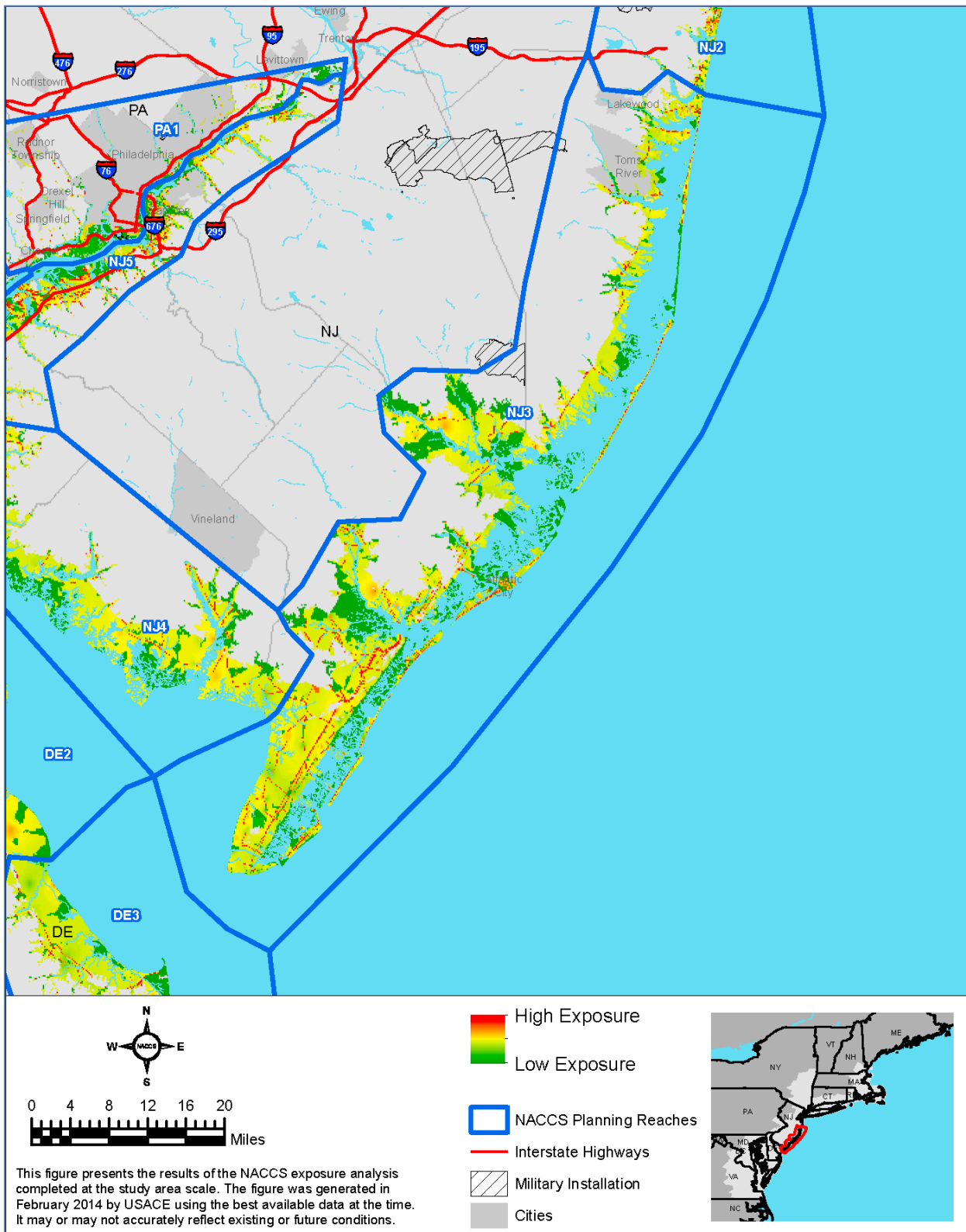


Figure IId-47: Population and Infrastructure Exposure Index (NJ3)

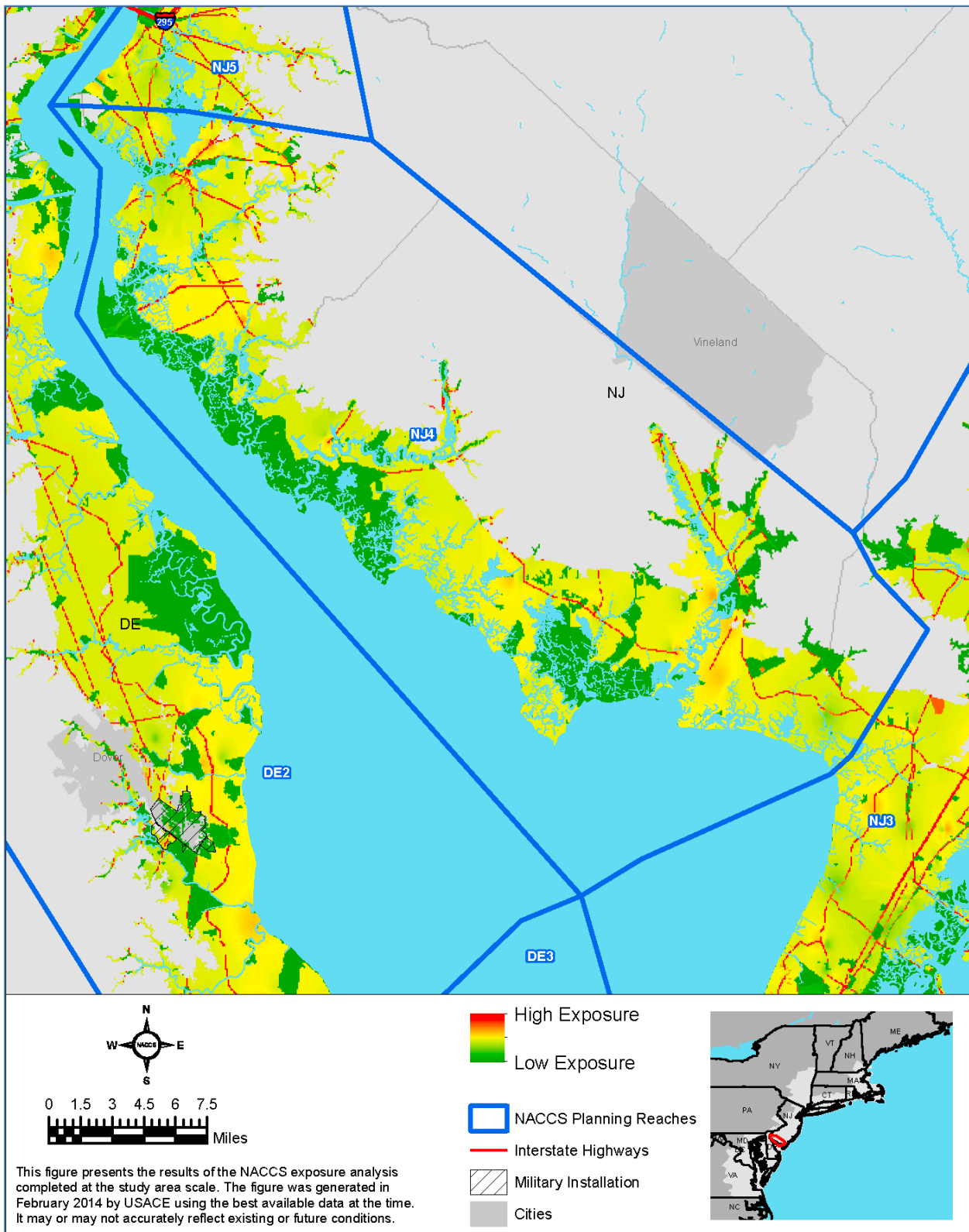


Figure IId-48: Population and Infrastructure Exposure Index (NJ4)



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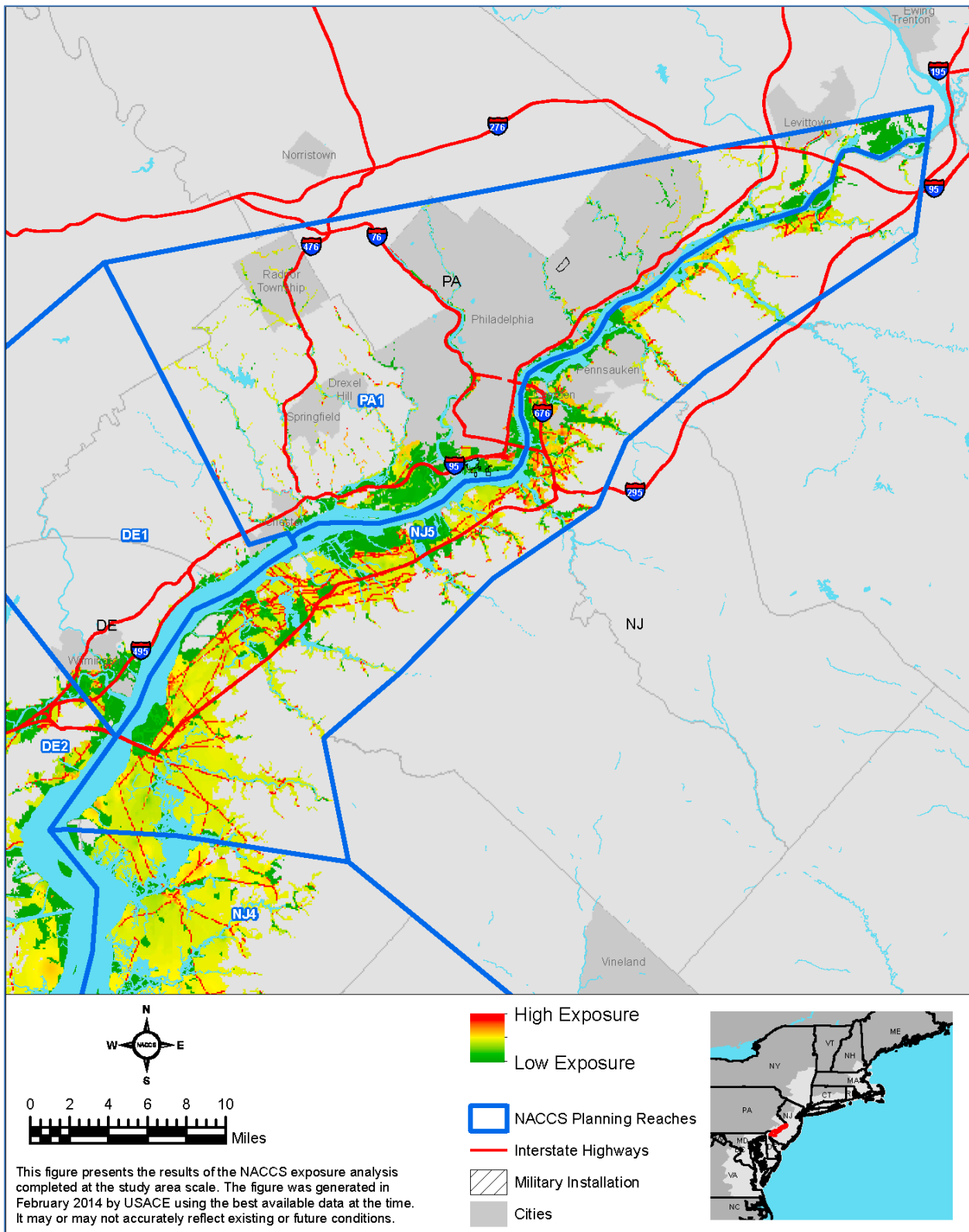


Figure 11d-49: Population and Infrastructure Exposure Index (NJ5)

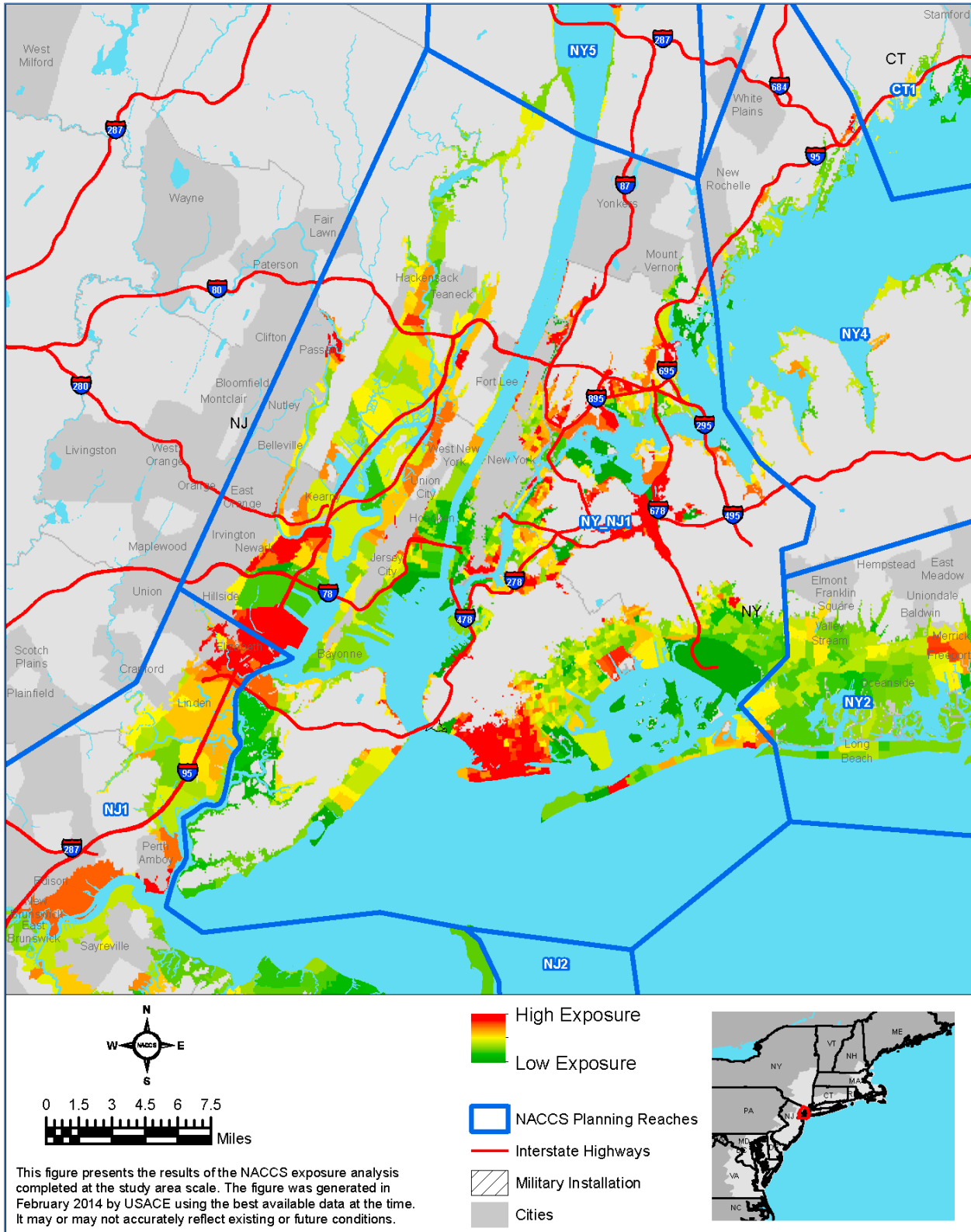


Figure 11d-50: Social Vulnerability Characterization Exposure Index (NY-NJ1)



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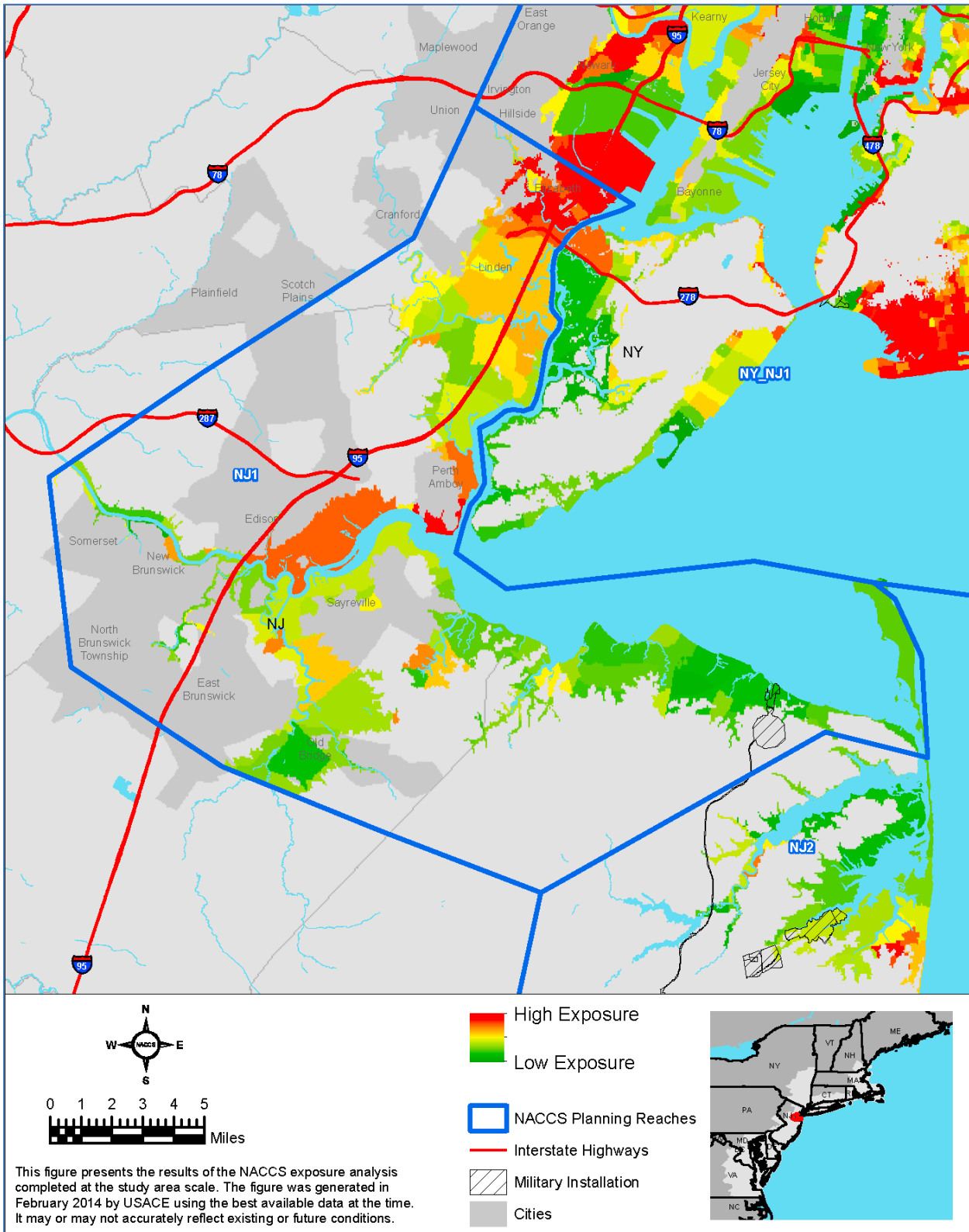


Figure IId-51: Social Vulnerability Characterization Exposure Index (NJ1)

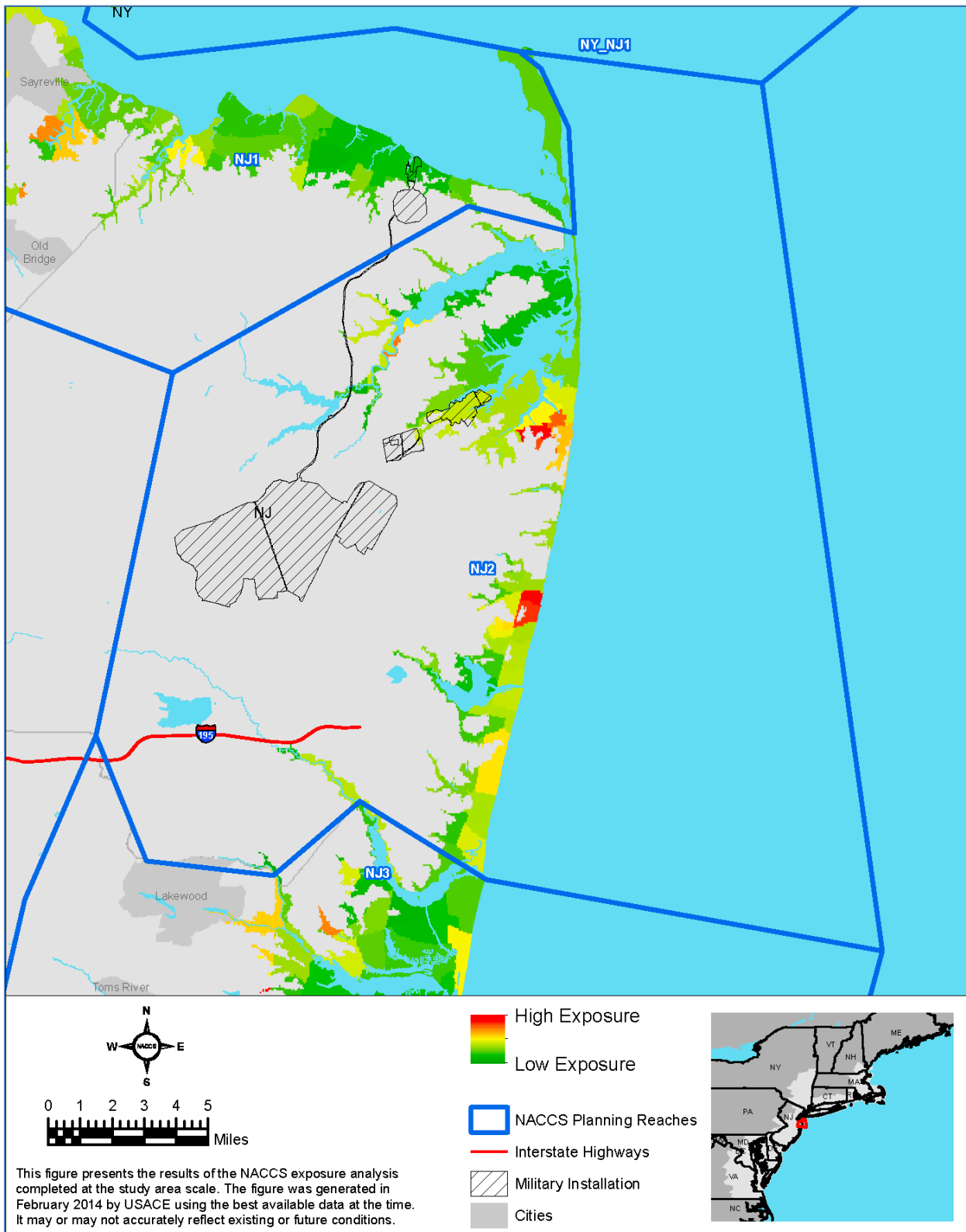


Figure IId-52: Social Vulnerability Characterization Exposure Index (NJ2)



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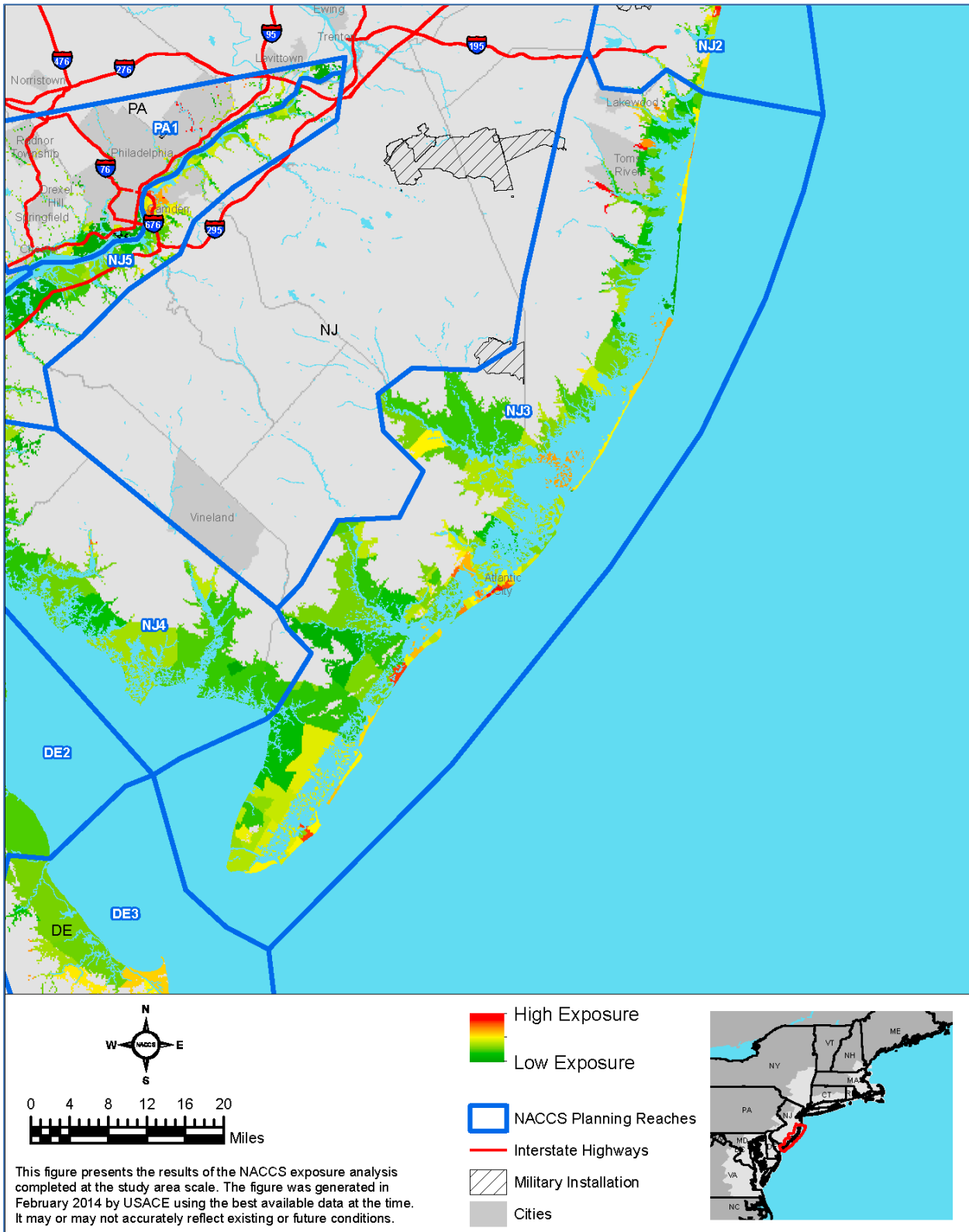


Figure IId-53: Social Vulnerability Characterization Exposure Index (NJ3)

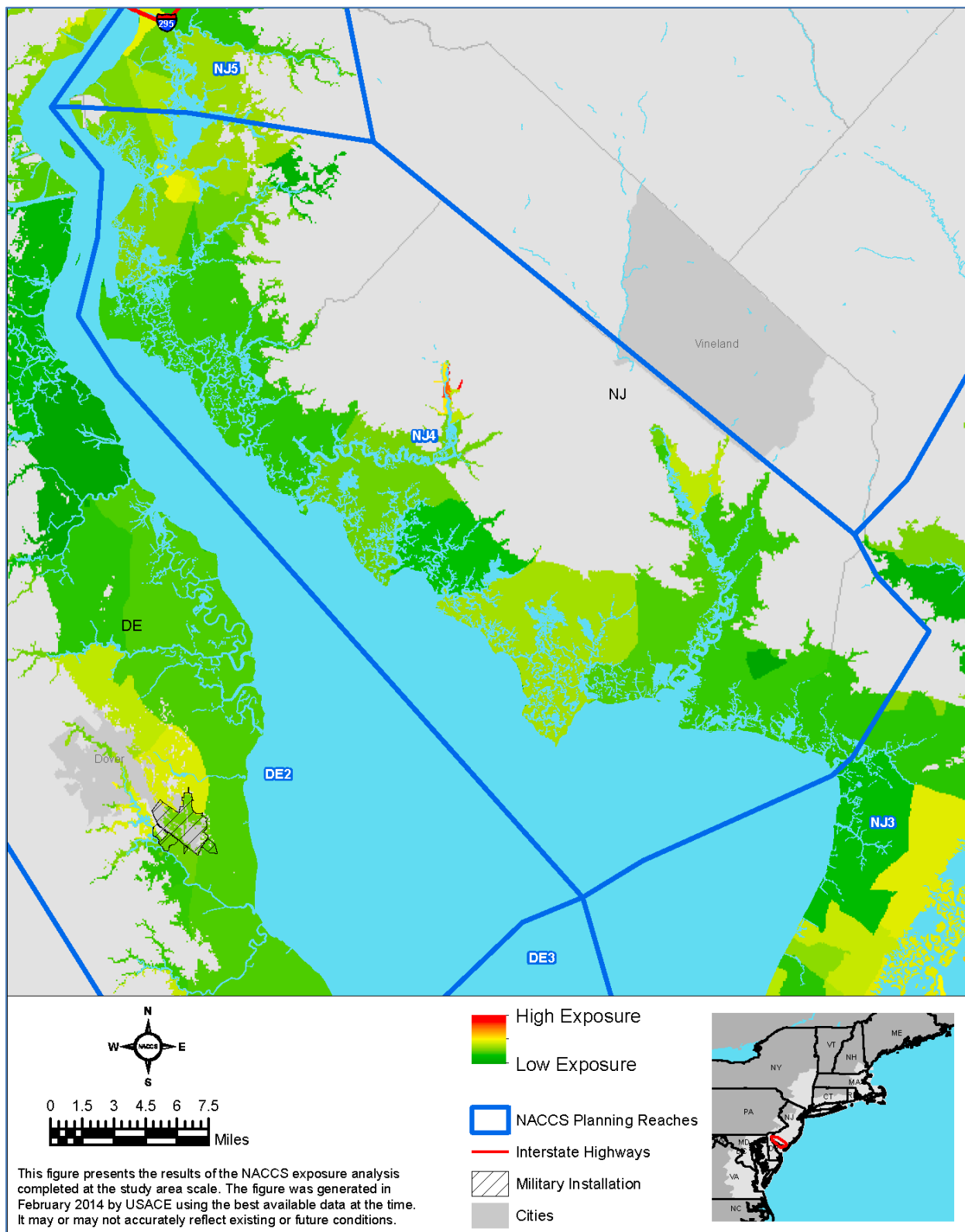


Figure IId-54: Social Vulnerability Characterization Exposure Index (NJ4)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

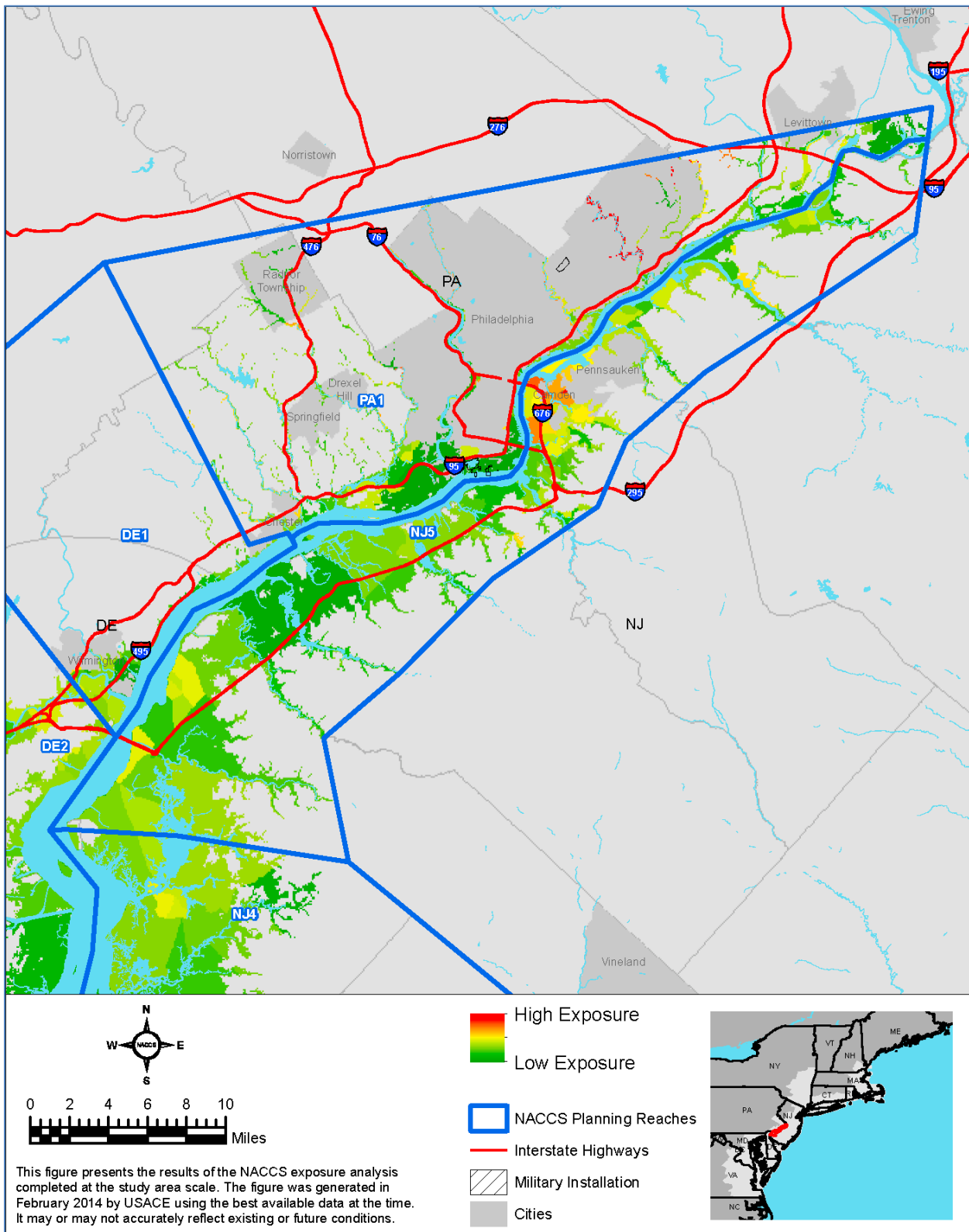


Figure IId-55: Social Vulnerability Characterization Exposure Index (NJ5)

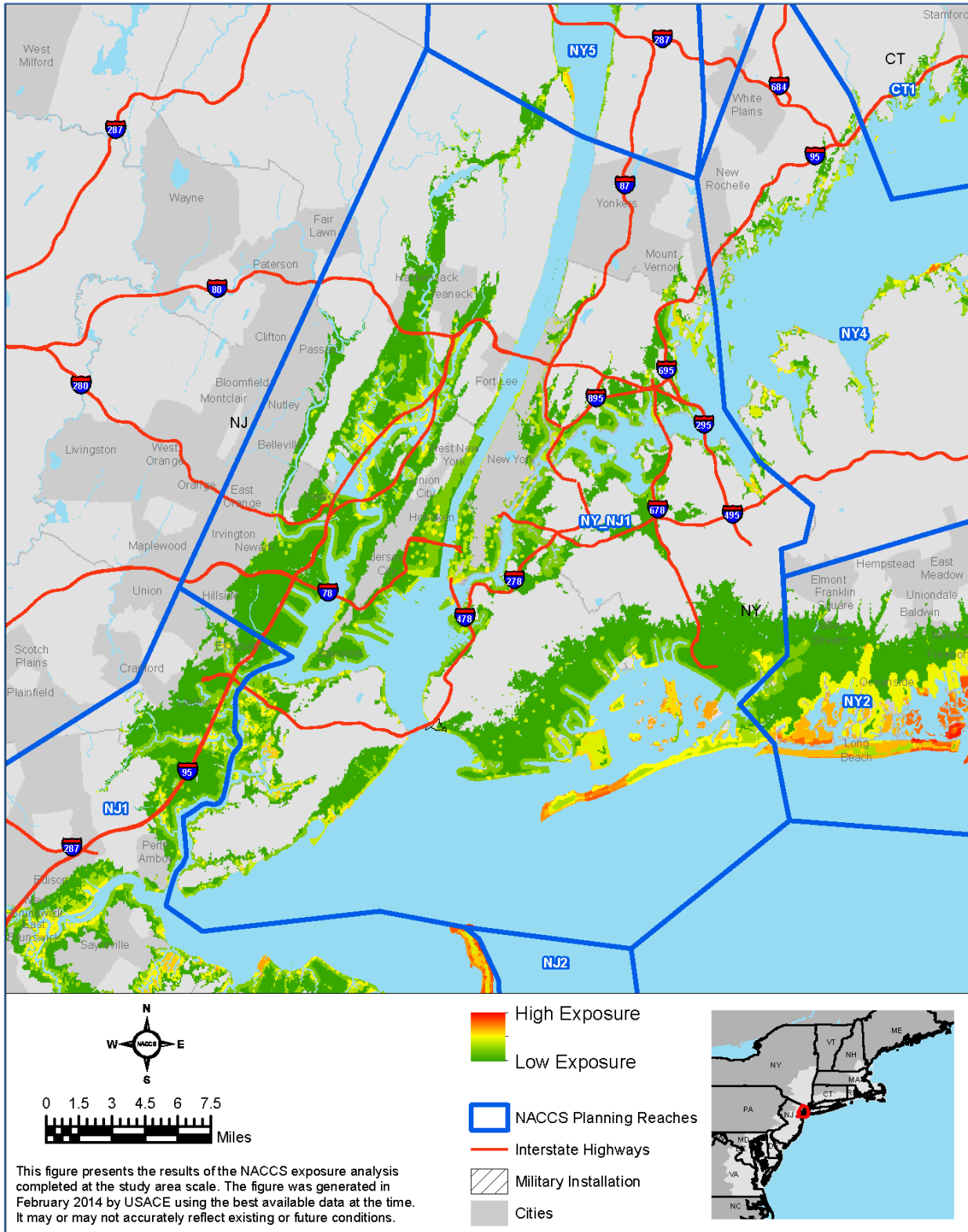


Figure IId-56: Environmental and Cultural Resources Exposure Index (NY-NJ1)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

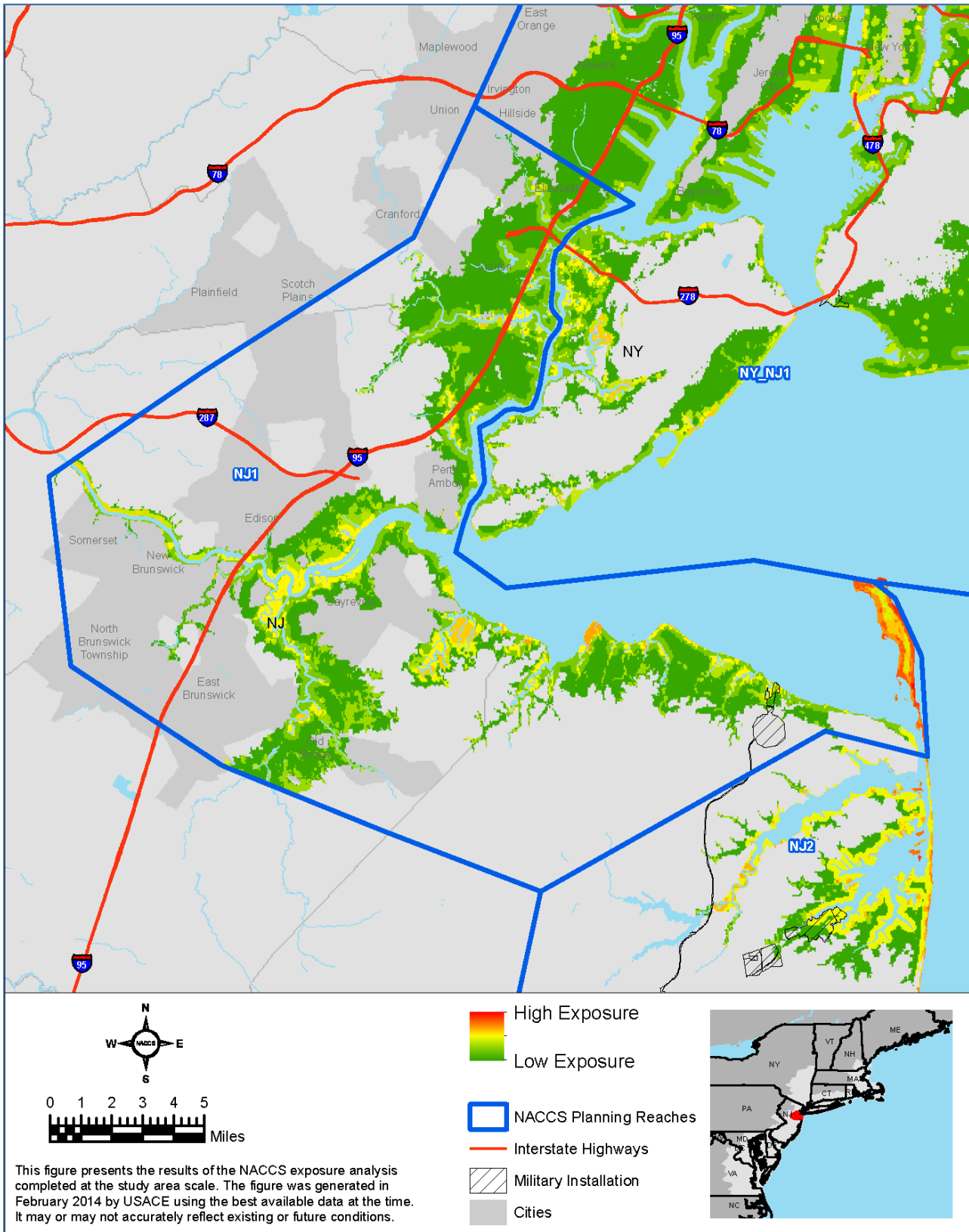


Figure 11d-57: Environmental and Cultural Resources Exposure Index (NJ1)

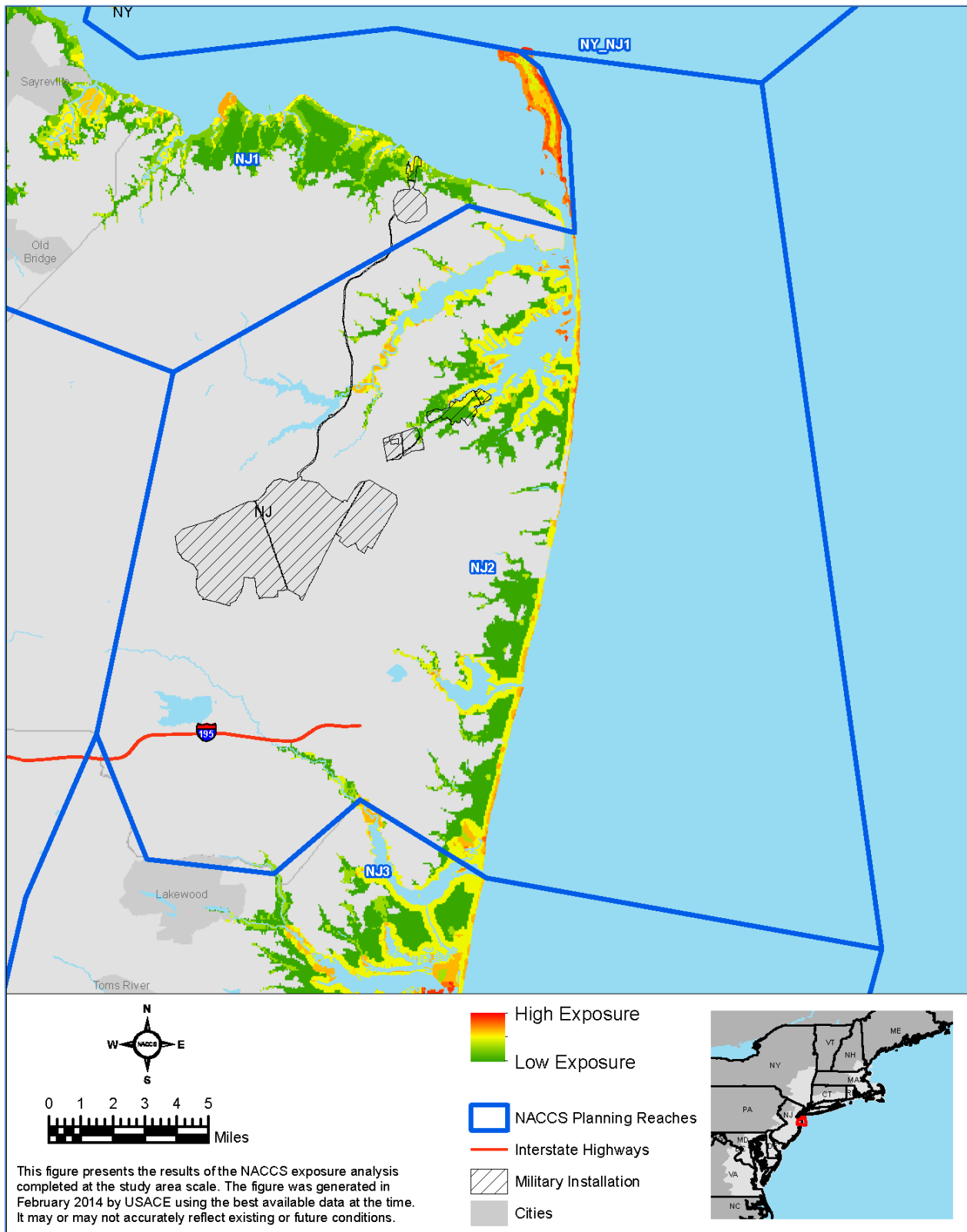


Figure 11d-58: Environmental and Cultural Resources Exposure Index (NJ2)



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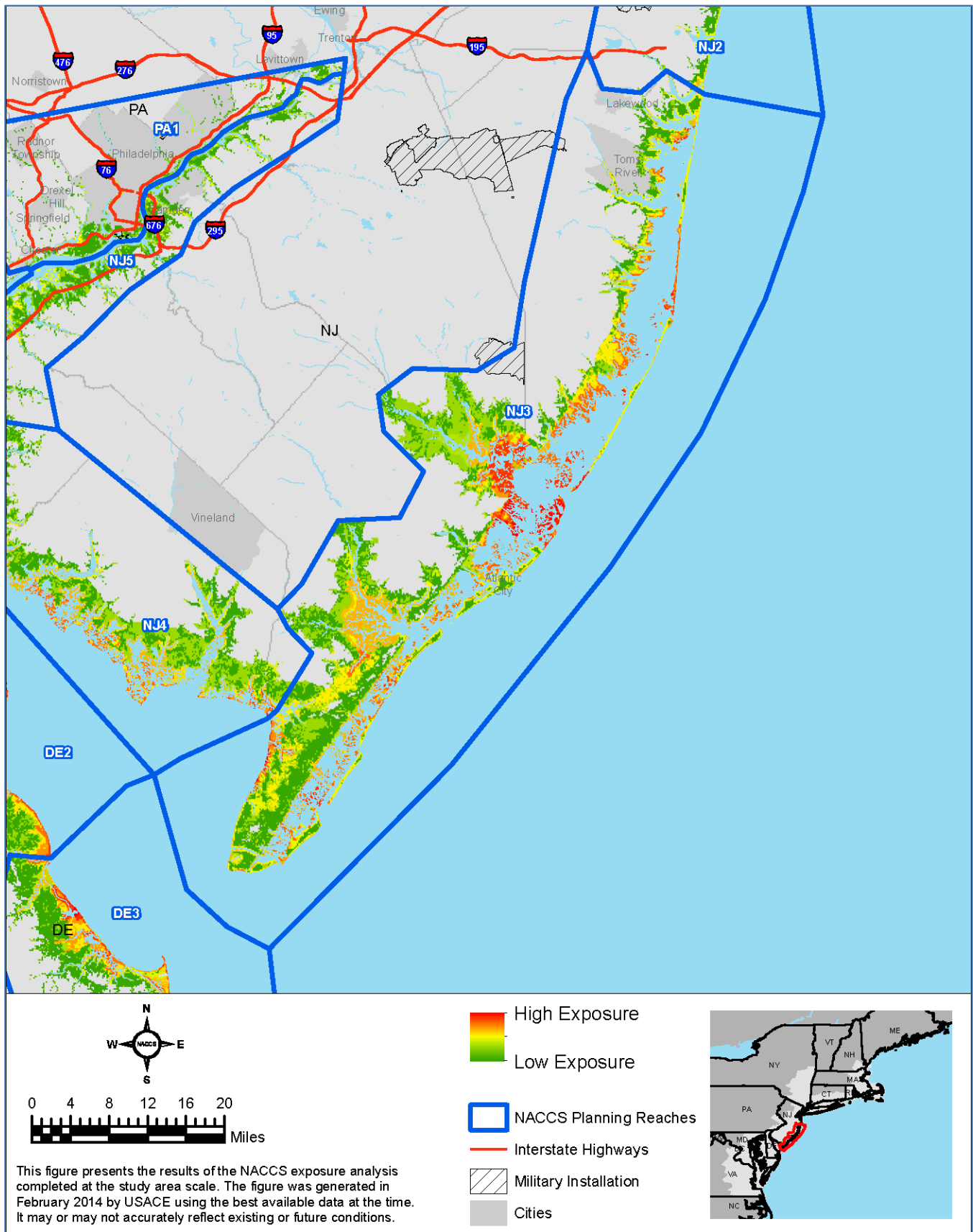


Figure 11d-59: Environmental and Cultural Resources Exposure Index (NJ3)

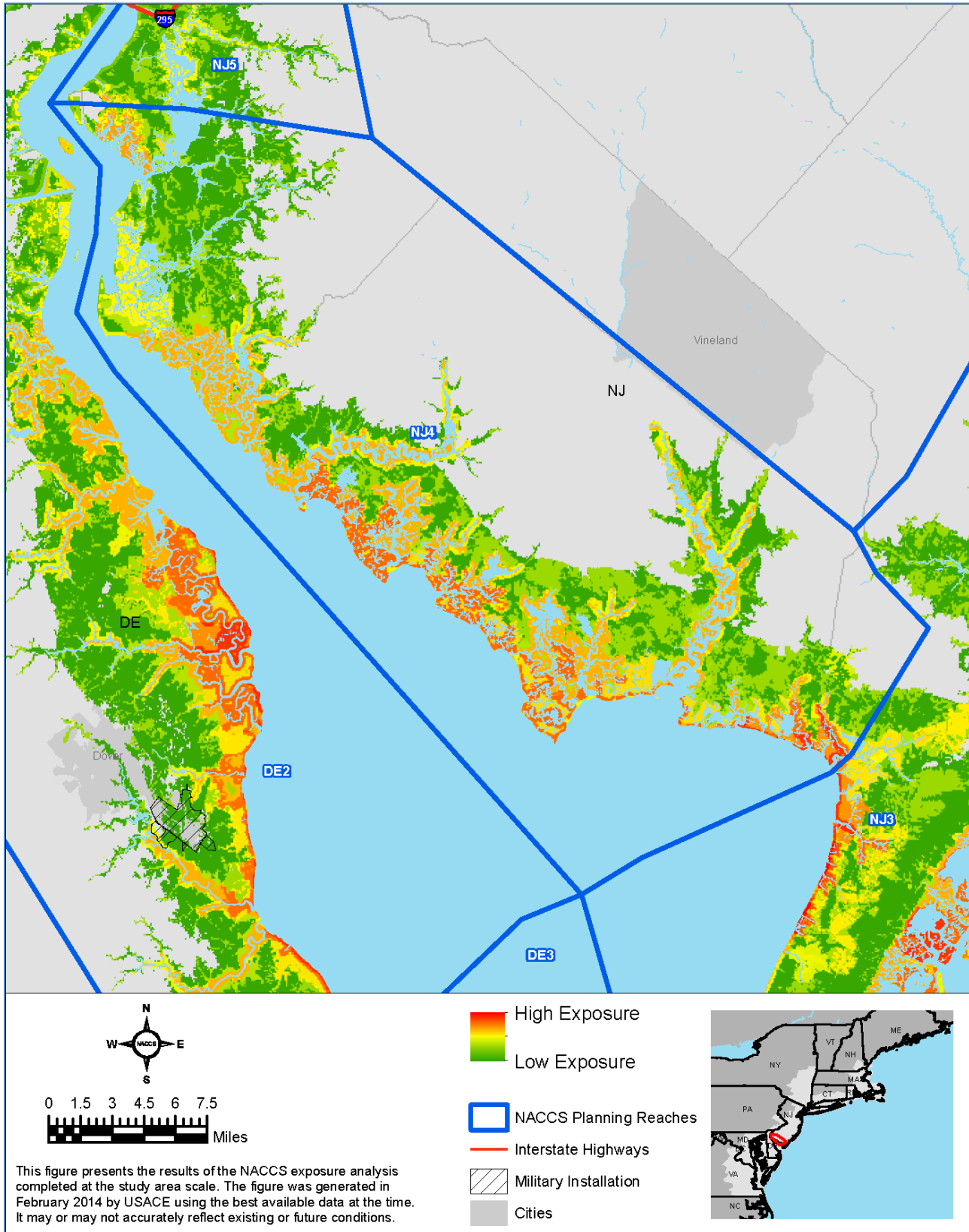


Figure IId-60: Environmental and Cultural Resources Exposure Index (NJ4)



North Atlantic Coast Comprehensive Study (NACCS)

United States Army Corps of Engineers

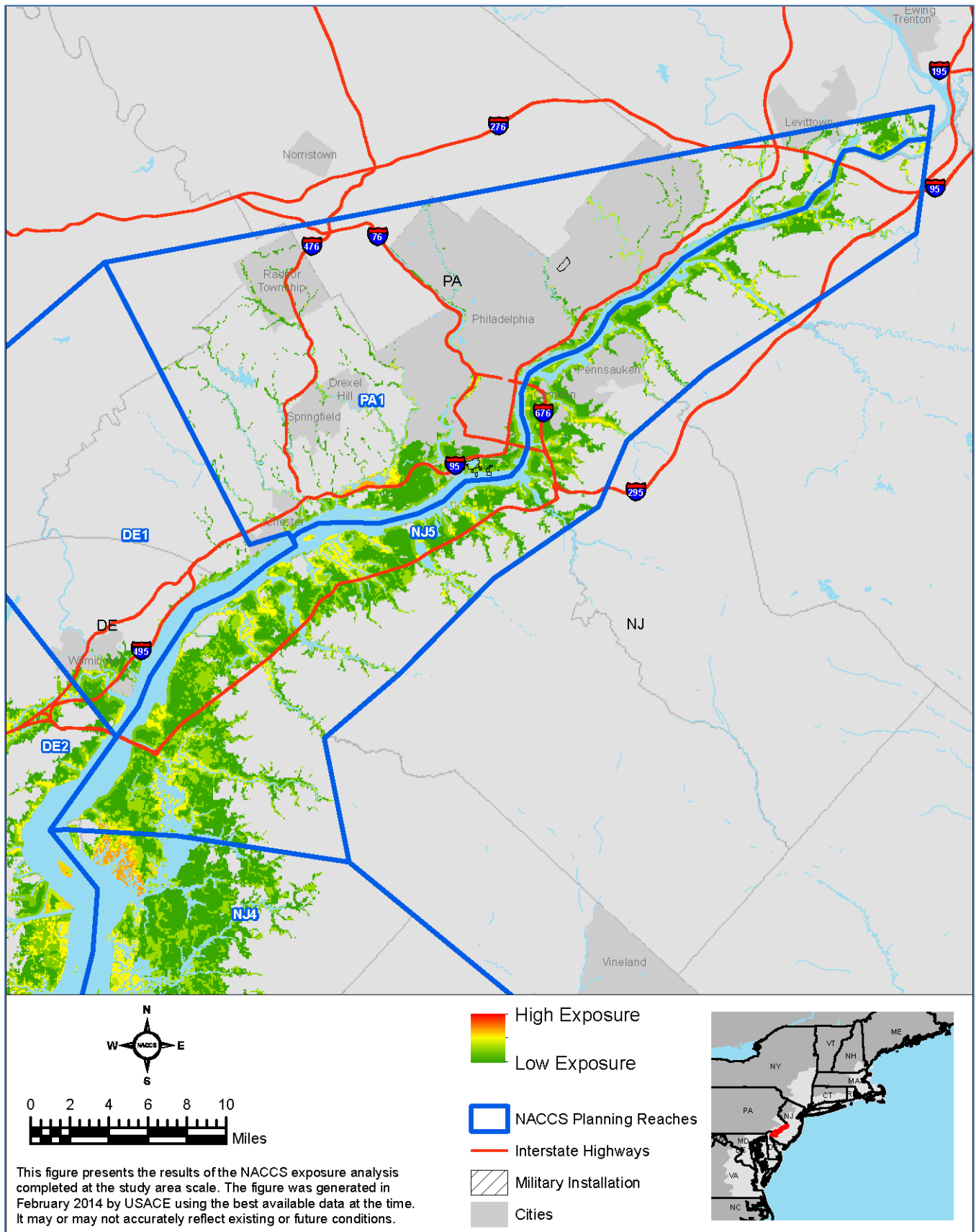


Figure 11d-61: Environmental and Cultural Resources Exposure Index (NJ5)

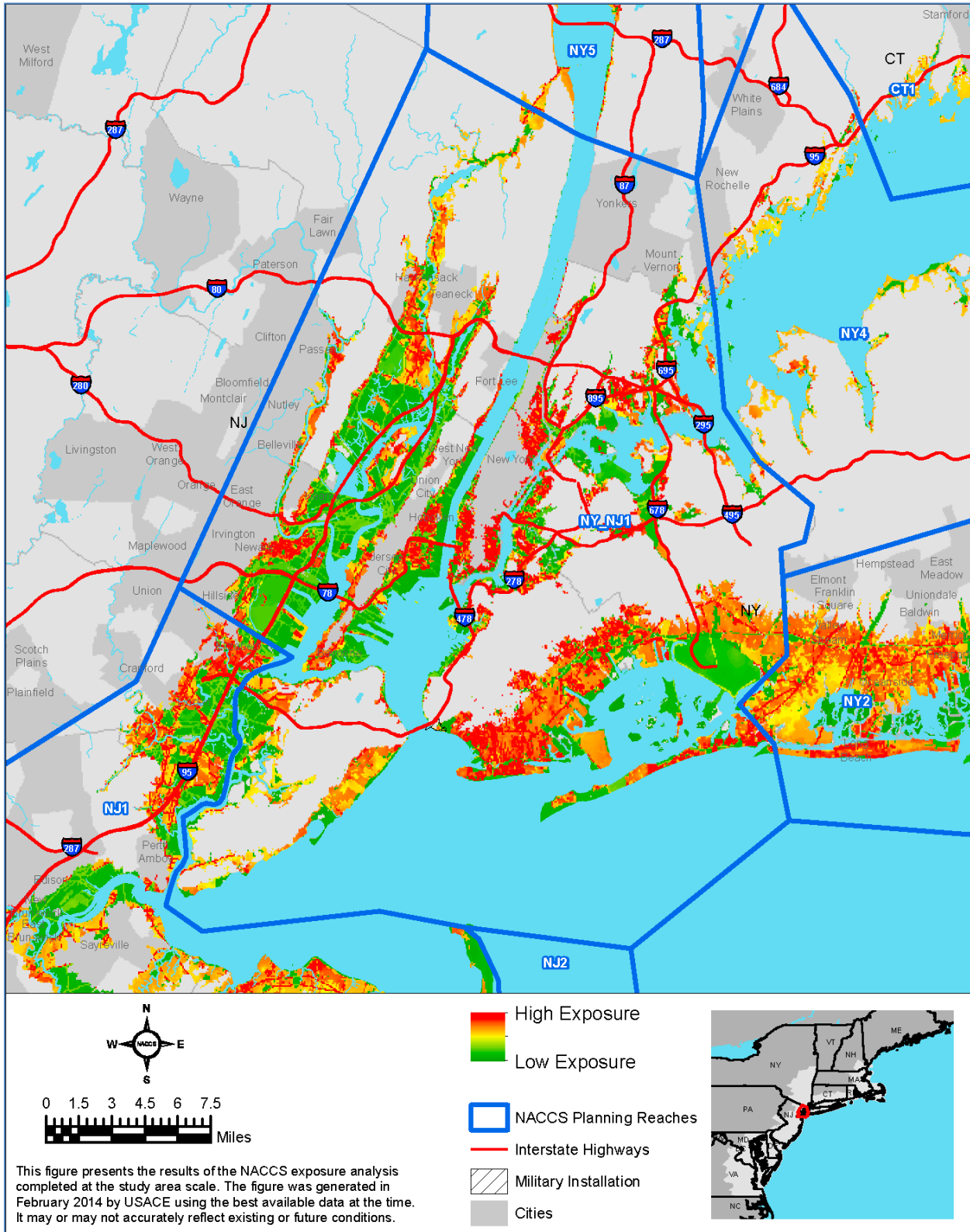


Figure IId-62: Composite Exposure Index (NY-NJ1)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

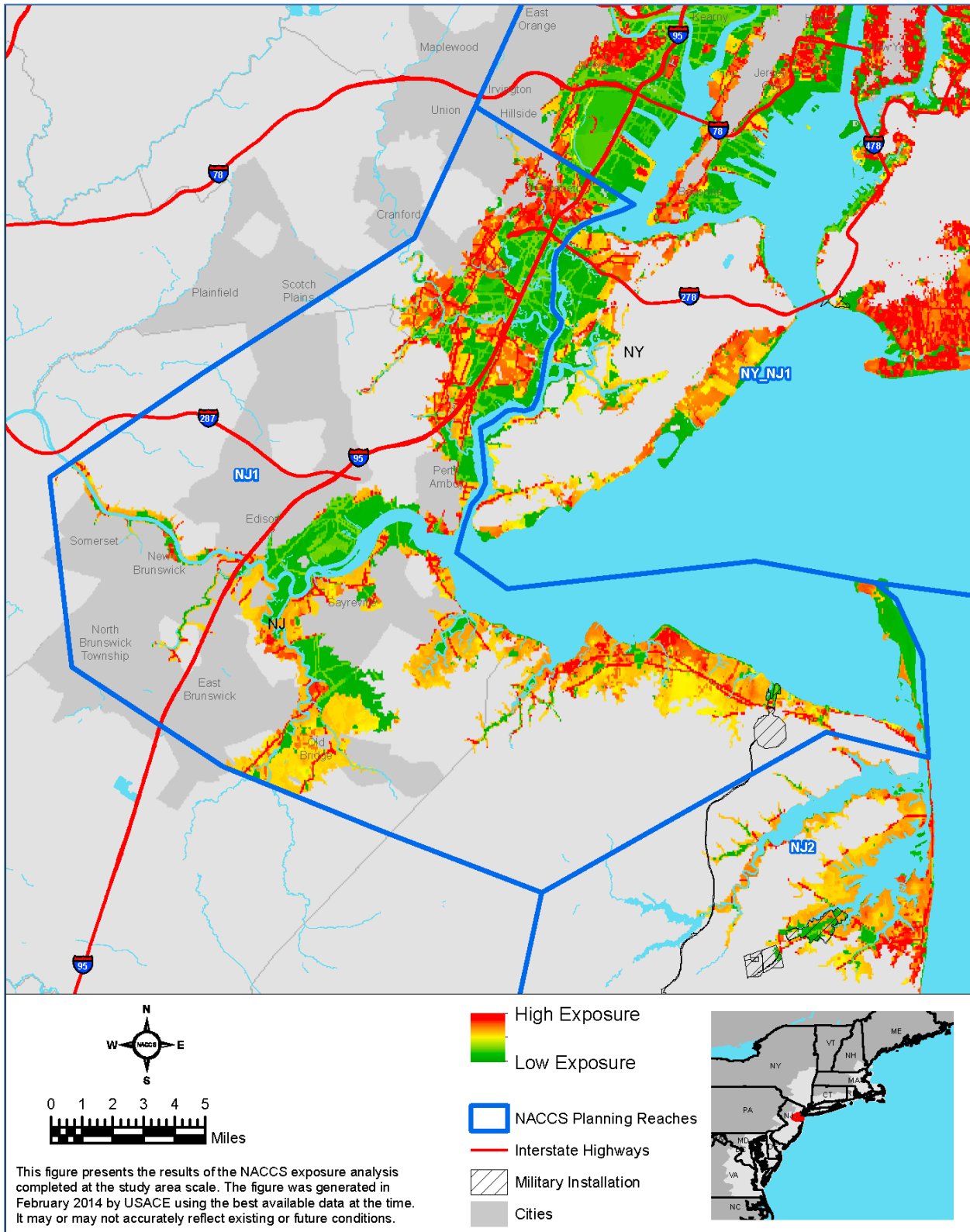


Figure IId-63: Composite Exposure Index (NJ1)

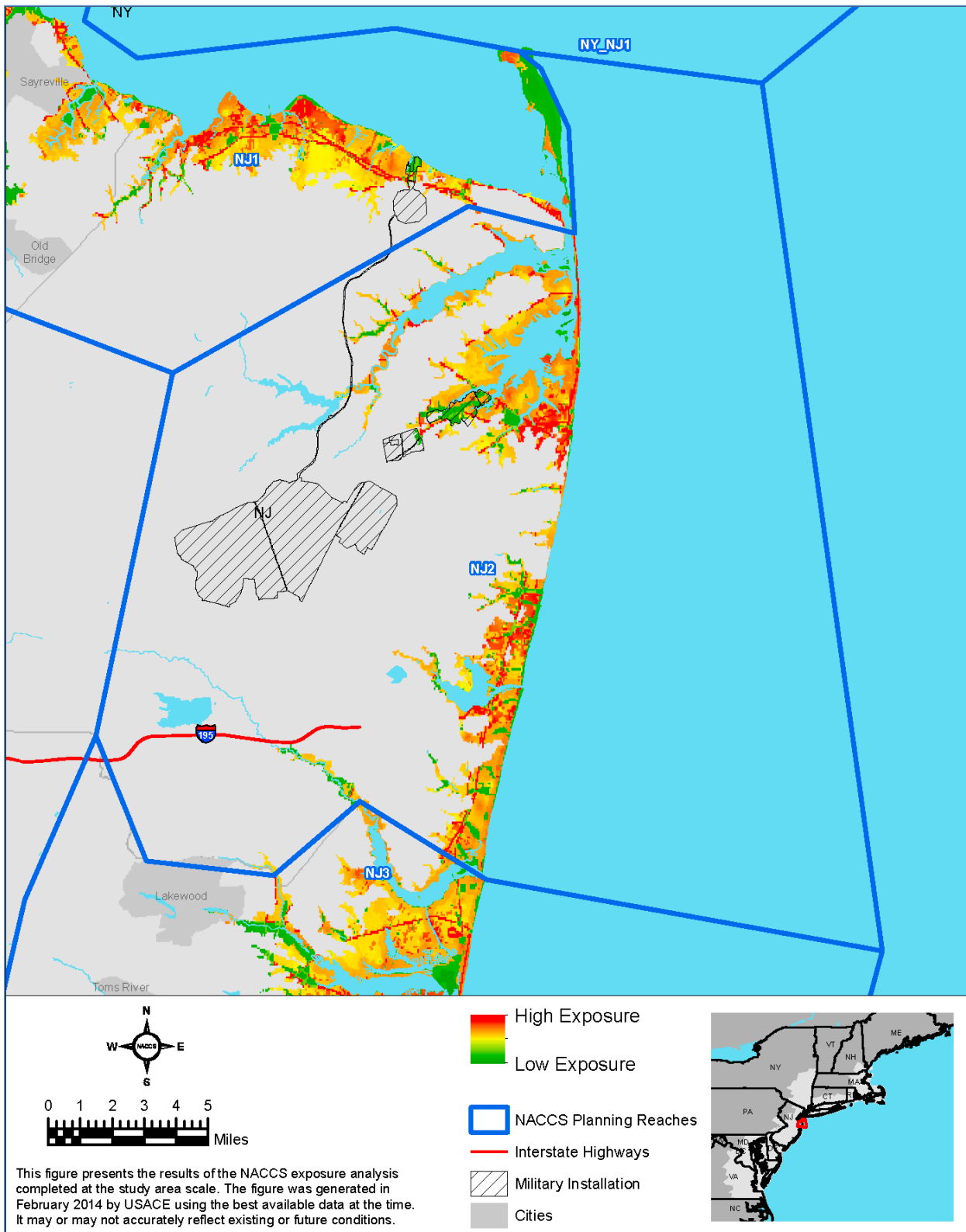


Figure IId-64: Composite Exposure Index (NJ2)



North Atlantic Coast Comprehensive Study (NACCS)

United States Army Corps of Engineers

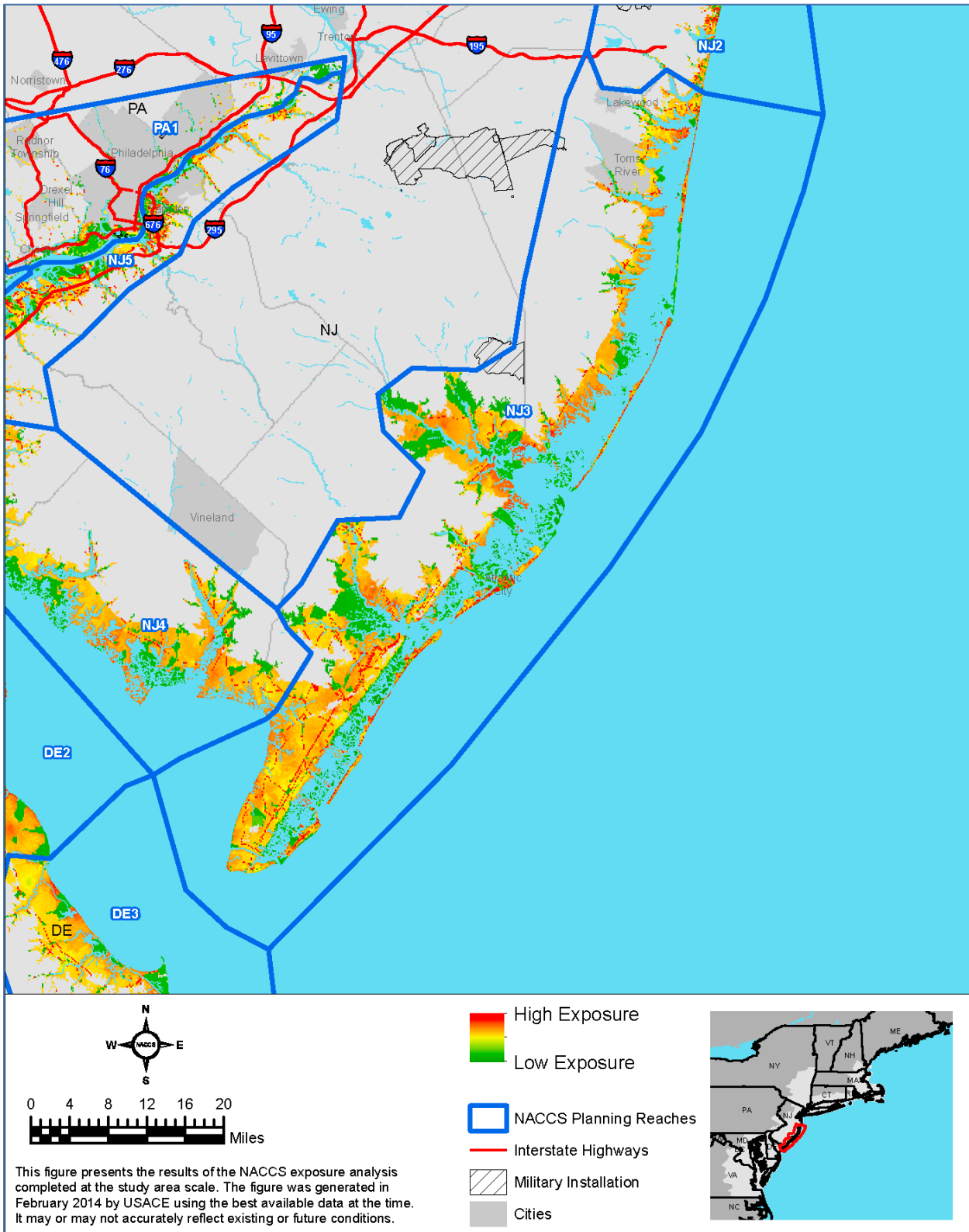


Figure IId-65: Composite Exposure Index (NJ3)

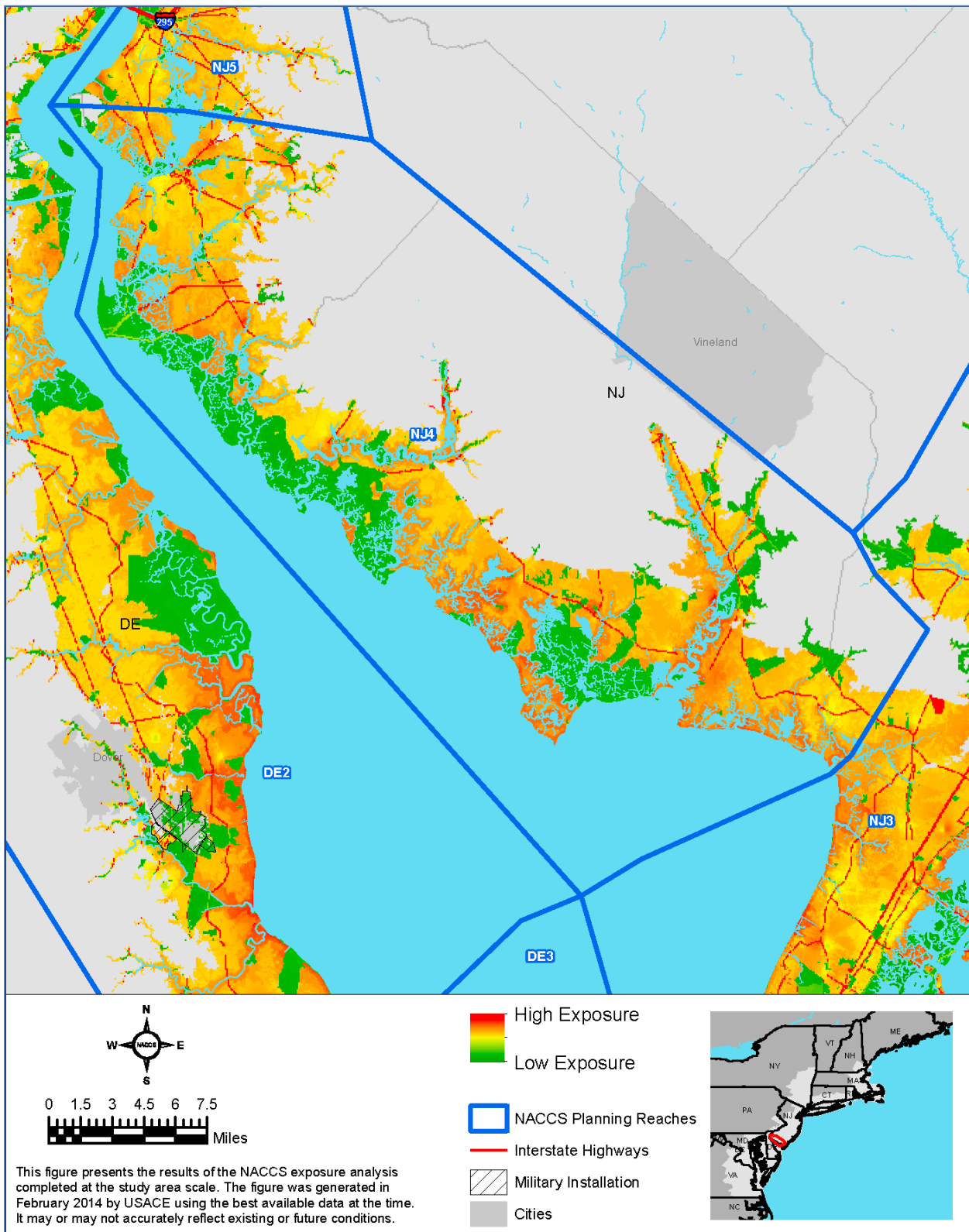
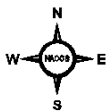
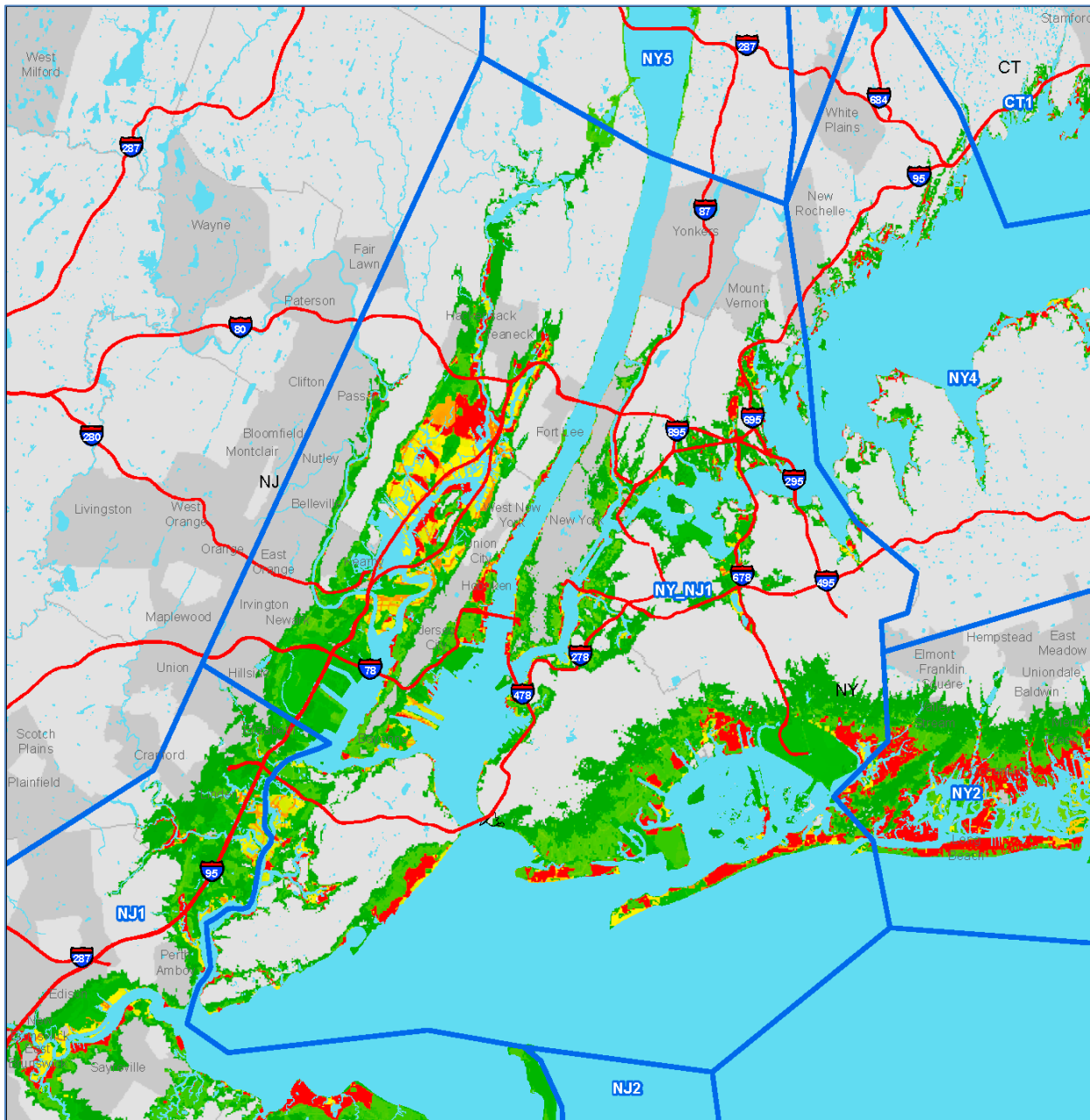
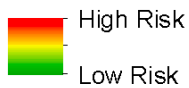


Figure IId-66: Composite Exposure Index (NJ4)



This figure presents the results of the NACCS risk assessment completed at the study area scale. The figure was generated in February 2014 by USACE using the best available data at the time. It may or may not accurately reflect existing or future conditions.



- Interstate Highway
- NACCS Planning Reach
- Military Installation
- Cities

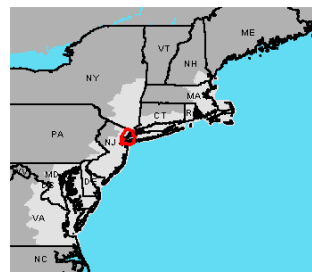


Figure 11d-68: Risk Assessment (NY-NJ1)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

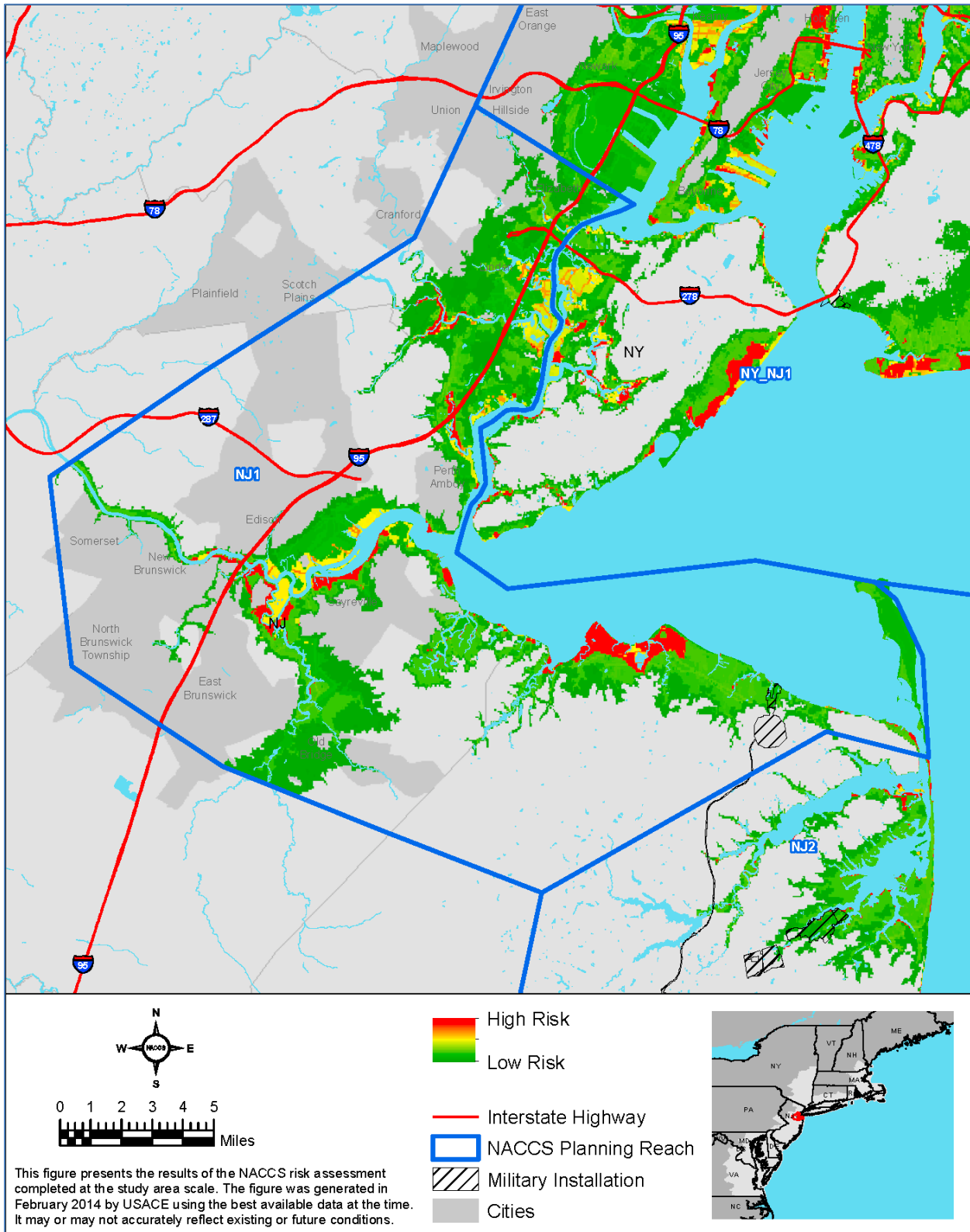


Figure IId-69: Risk Assessment (NJ1)

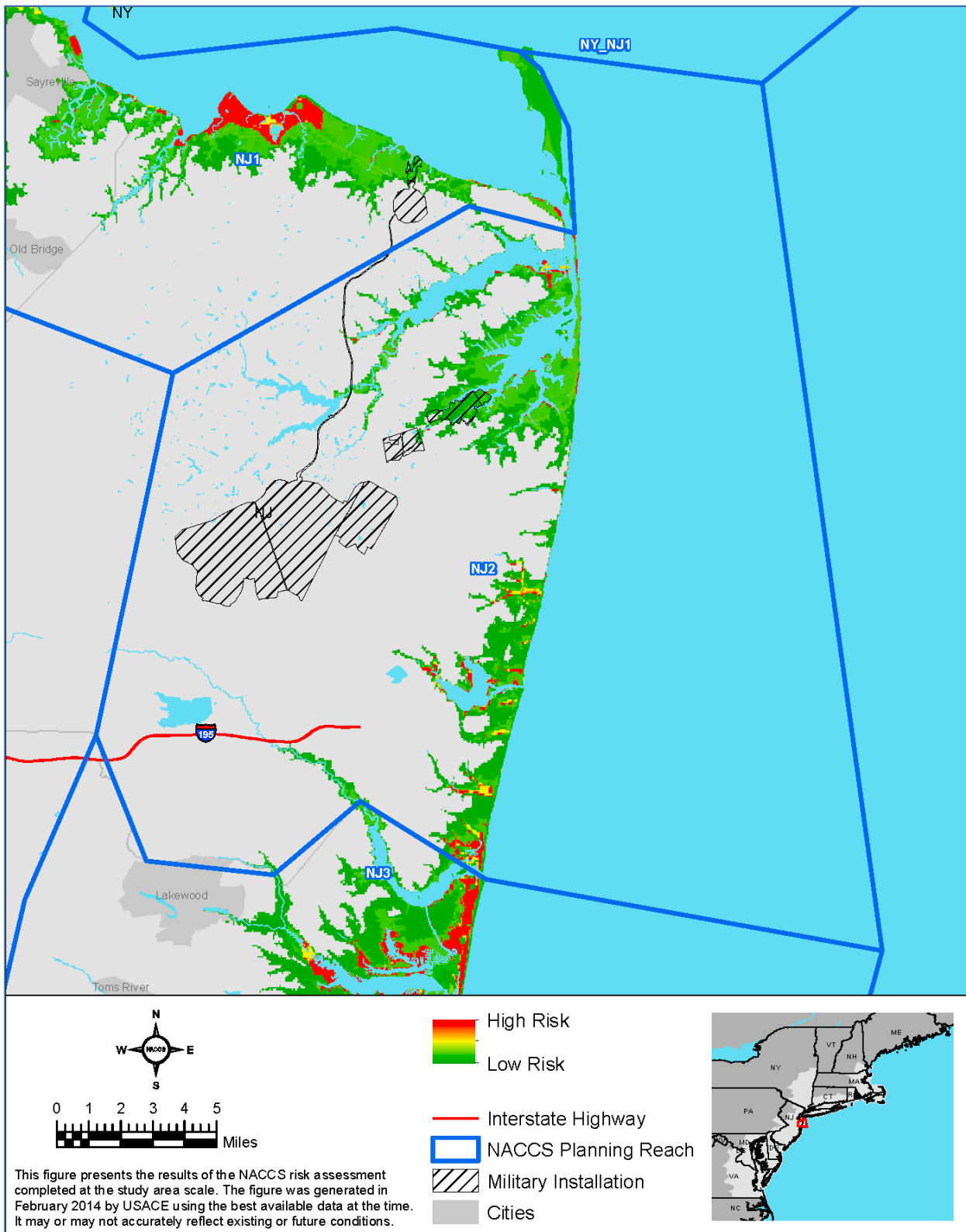


Figure IId-70: Risk Assessment (NJ2)



North Atlantic Coast Comprehensive Study (NACCS)

United States Army Corps of Engineers

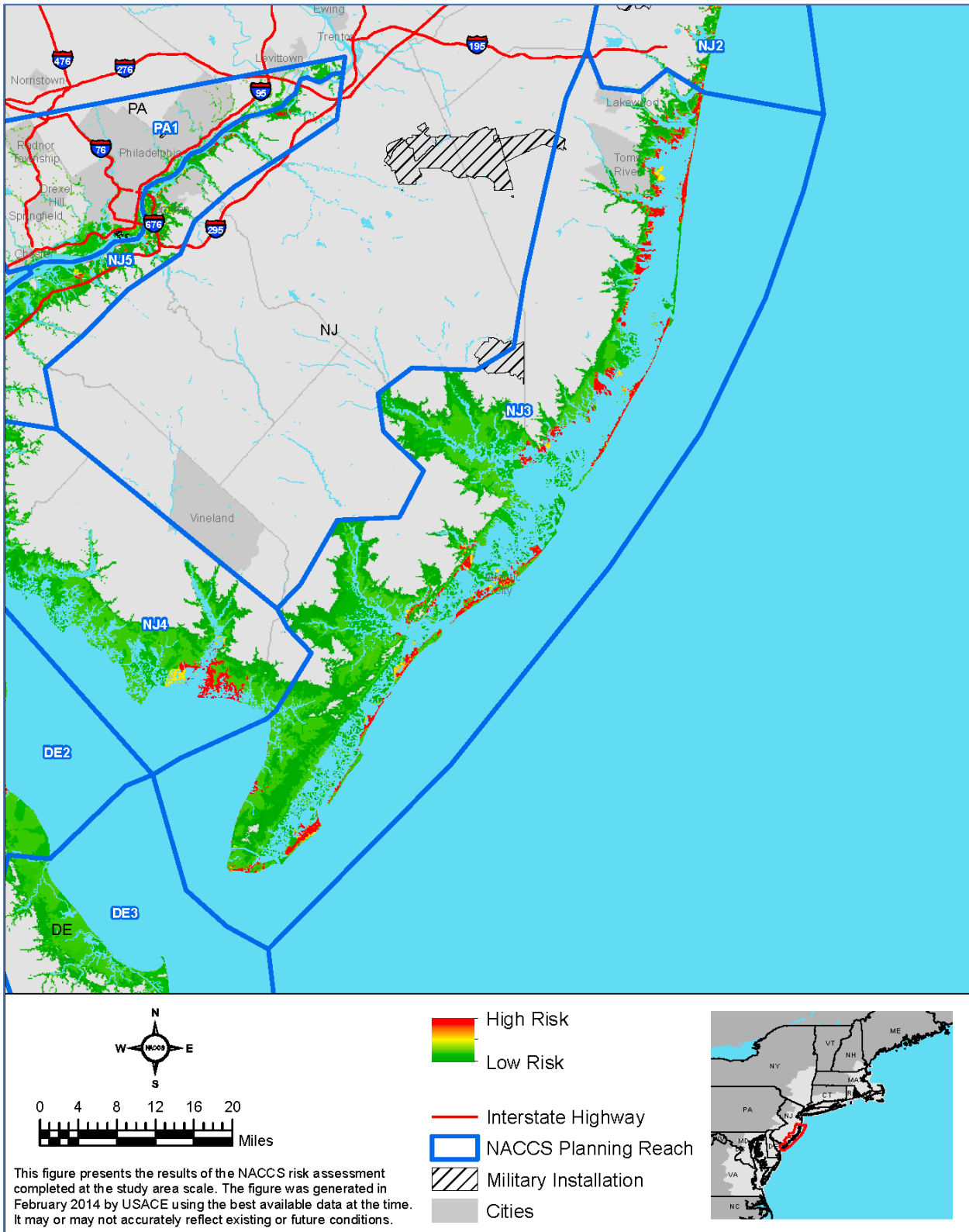


Figure IId-71: Risk Assessment (NJ3)

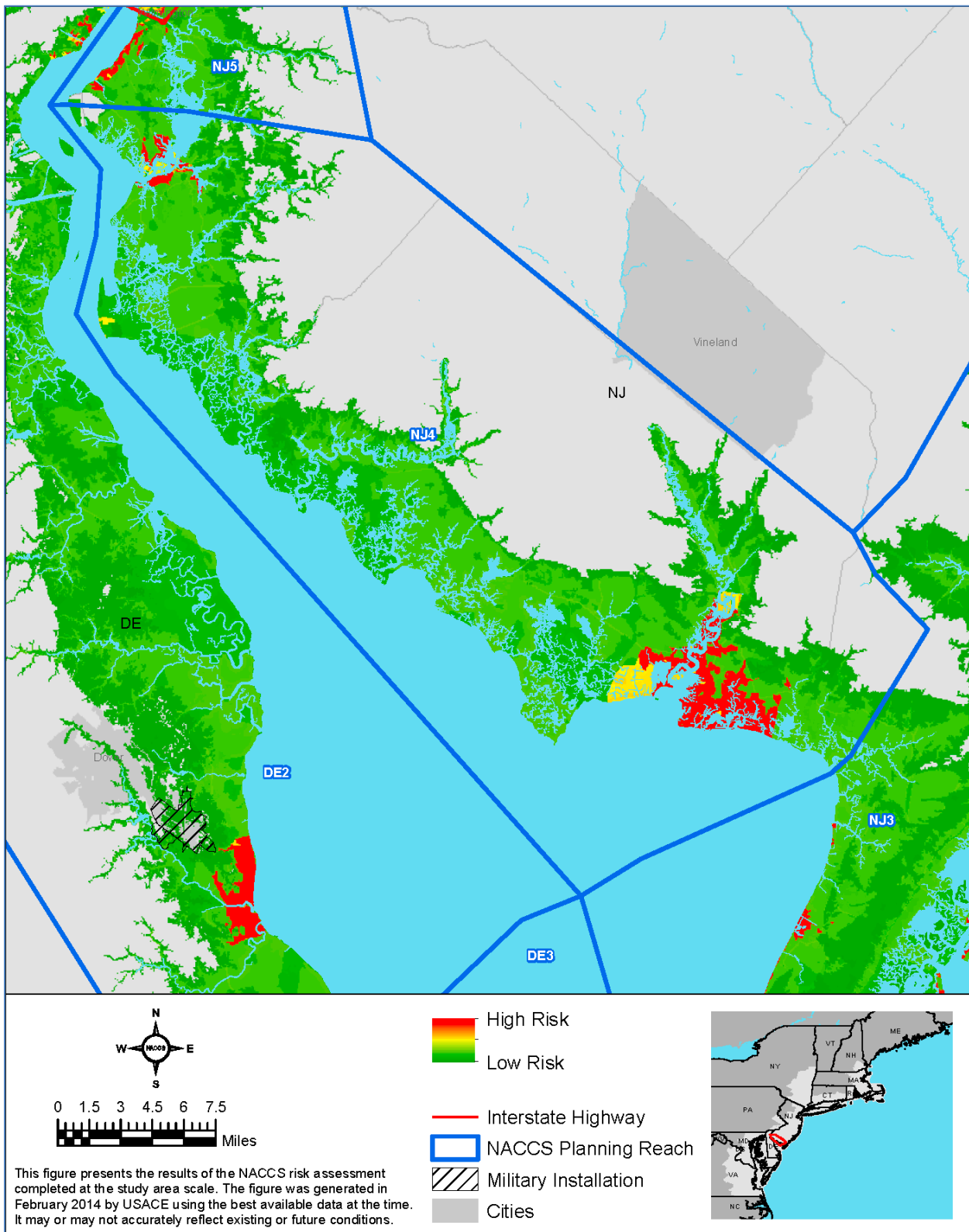


Figure IId-72: Risk Assessment (NJ4)



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

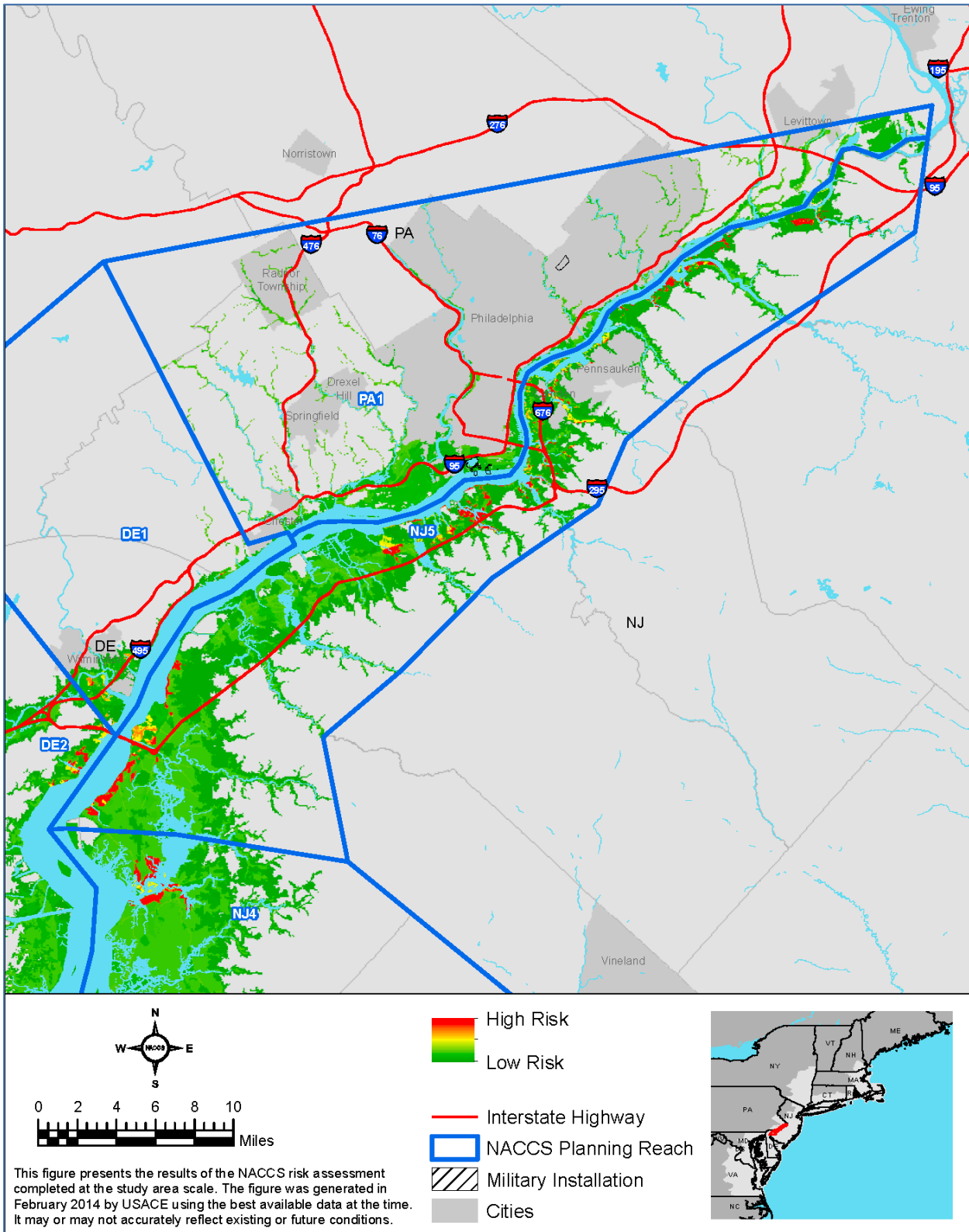


Figure IId-73: Risk Assessment (NJ5)

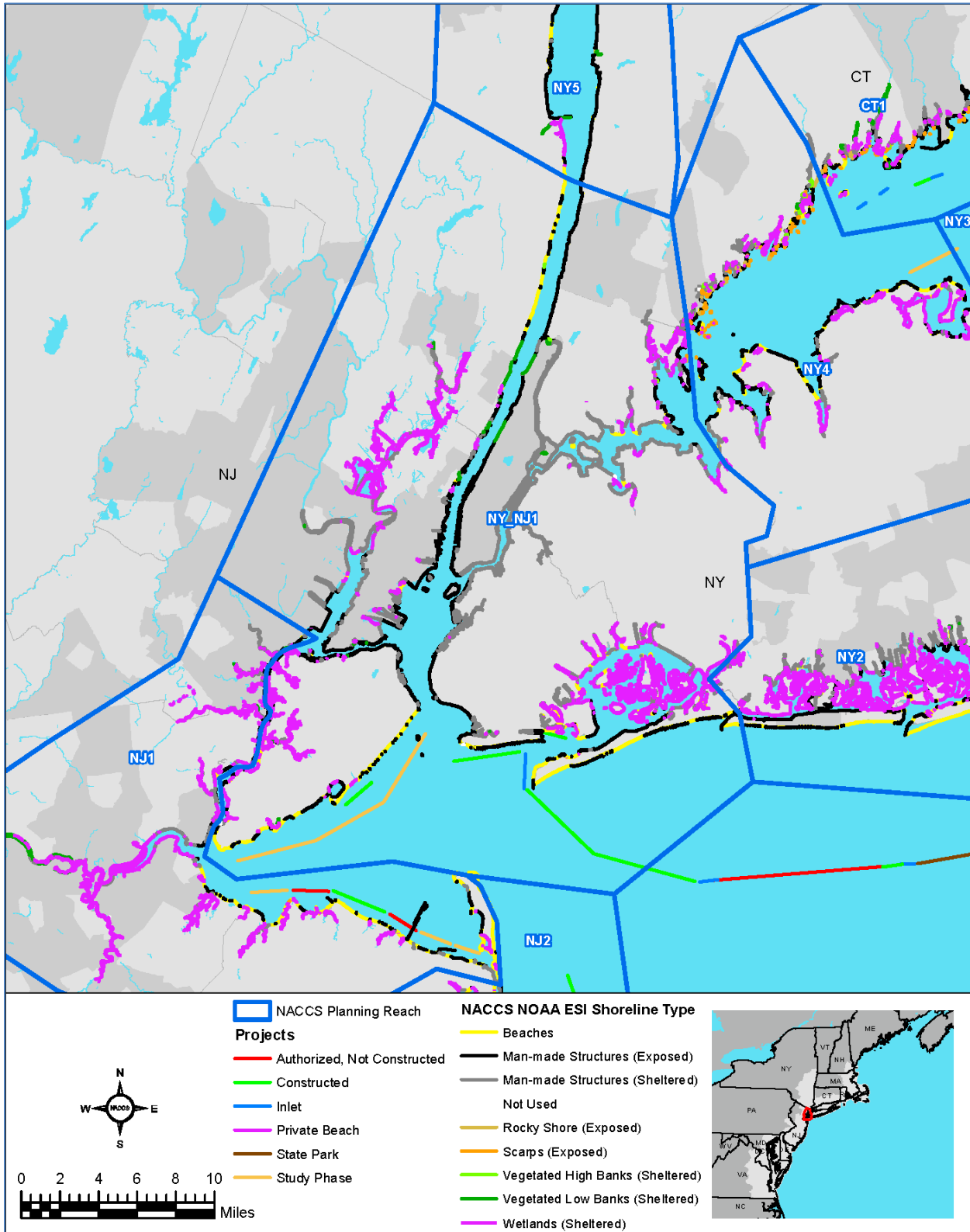


Figure IId-74: Shoreline Types (NY-NJ1)

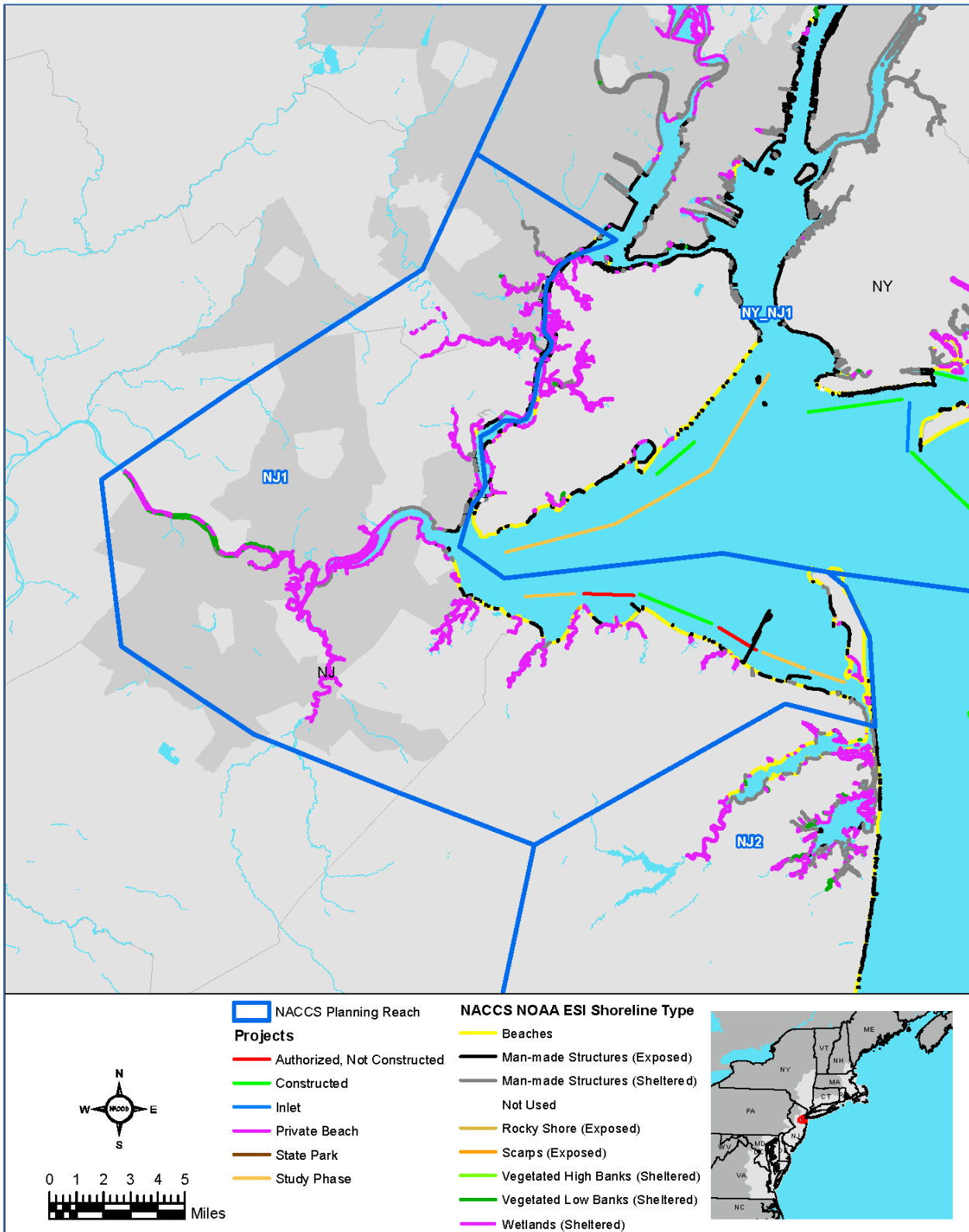


Figure IId-75: Shoreline Types (NJ1)

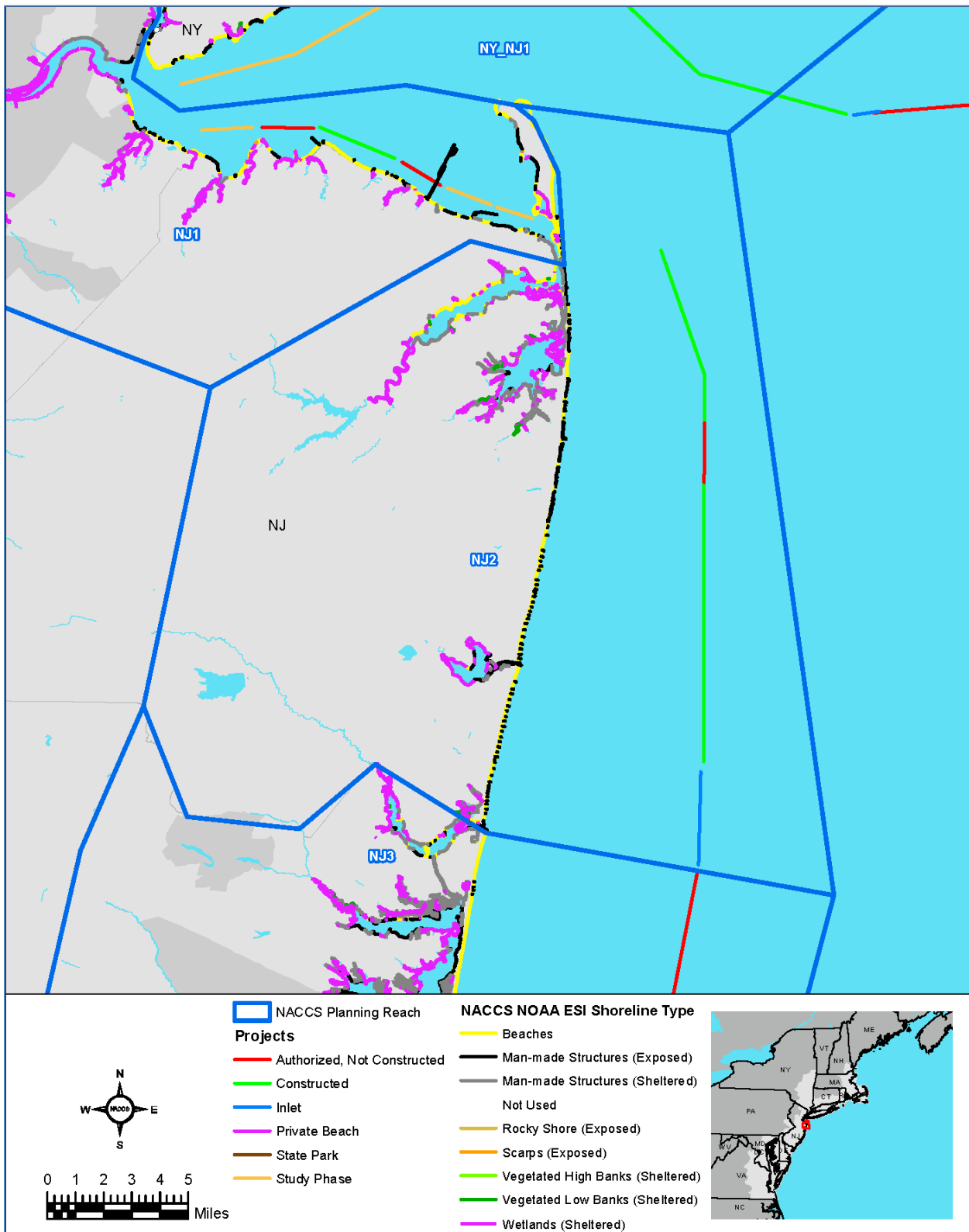


Figure IId-76: Shoreline Types (NJ2)

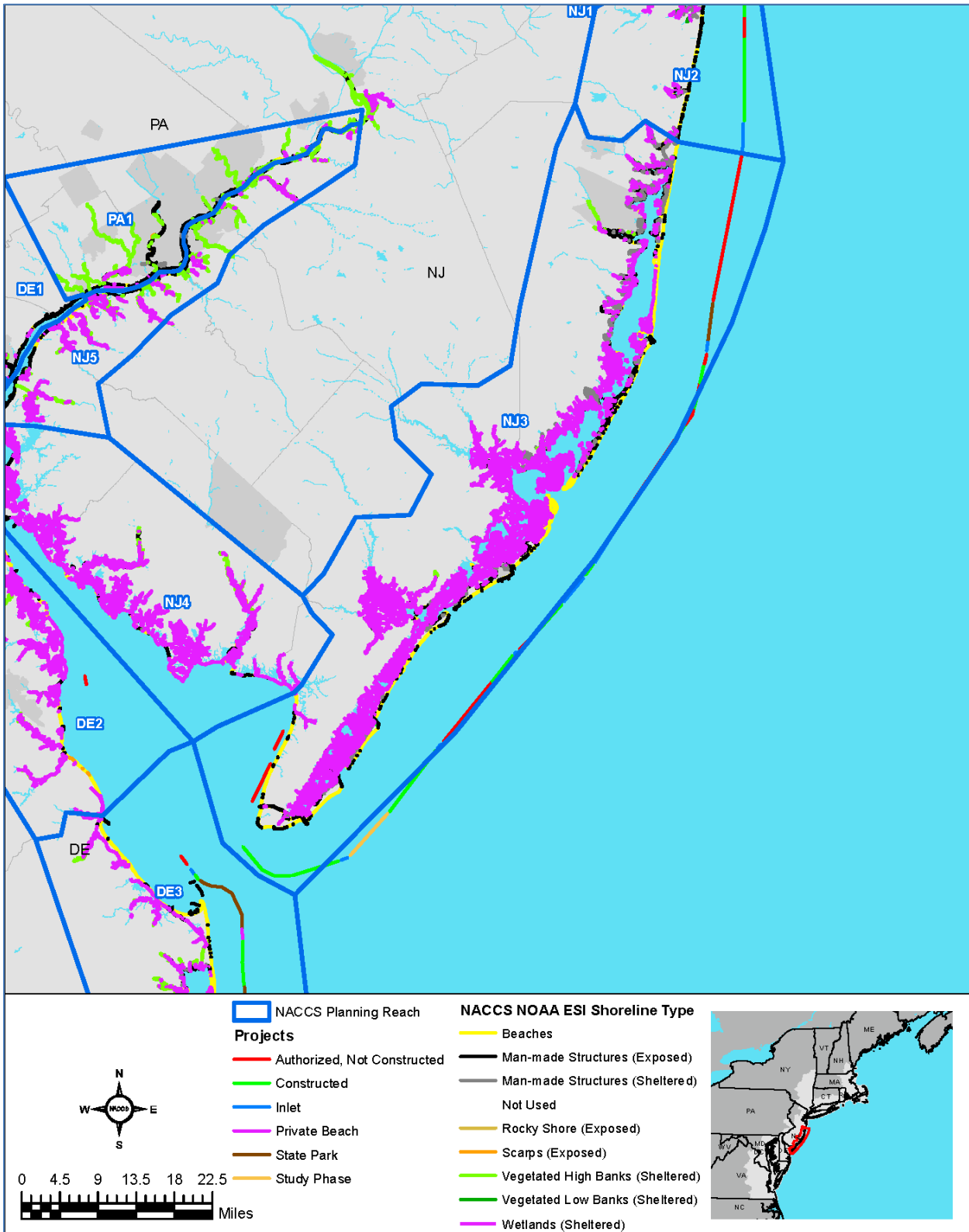


Figure IId-77: Shoreline Types (NJ3)

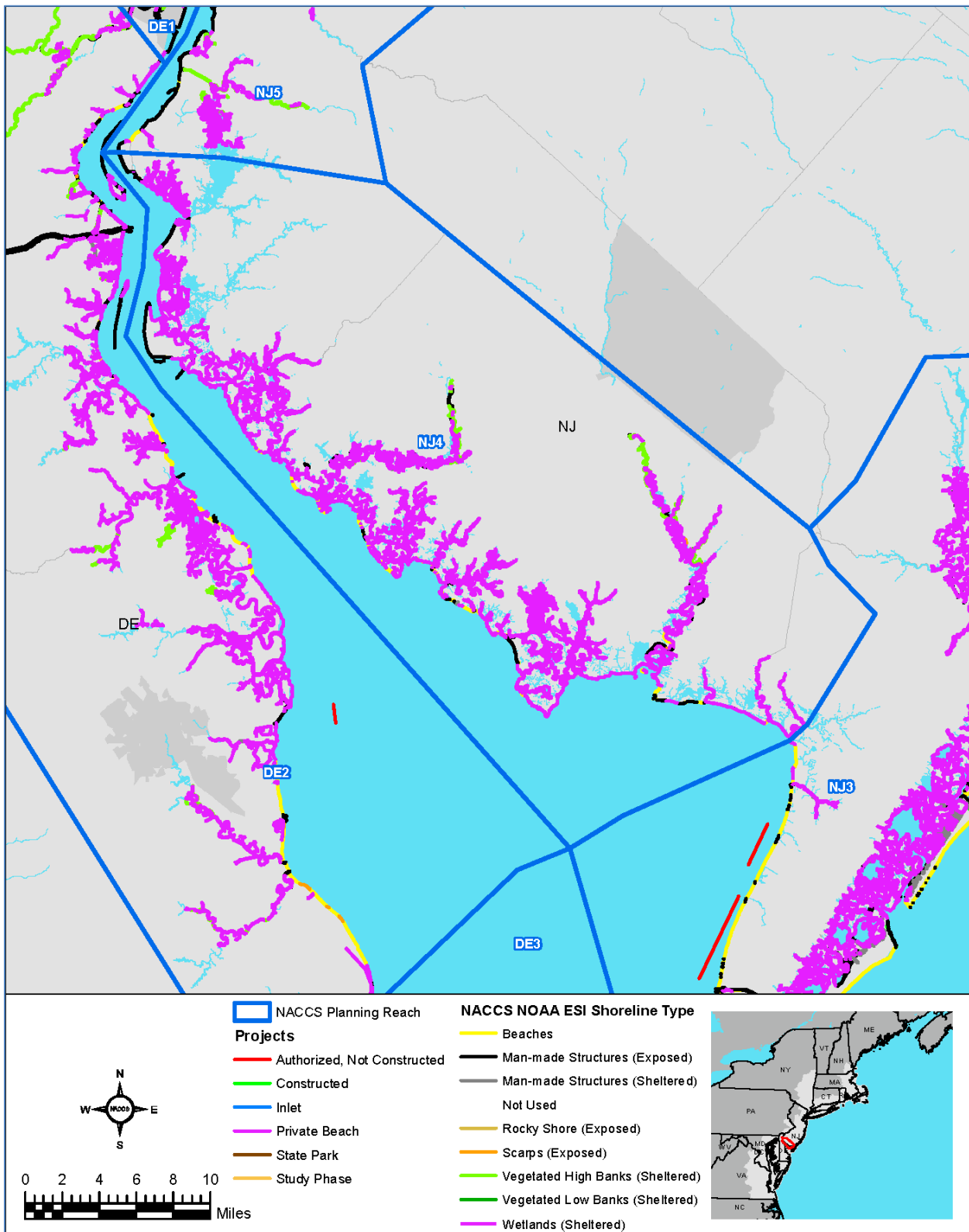


Figure 11d-78: Shoreline Types (NJ4)

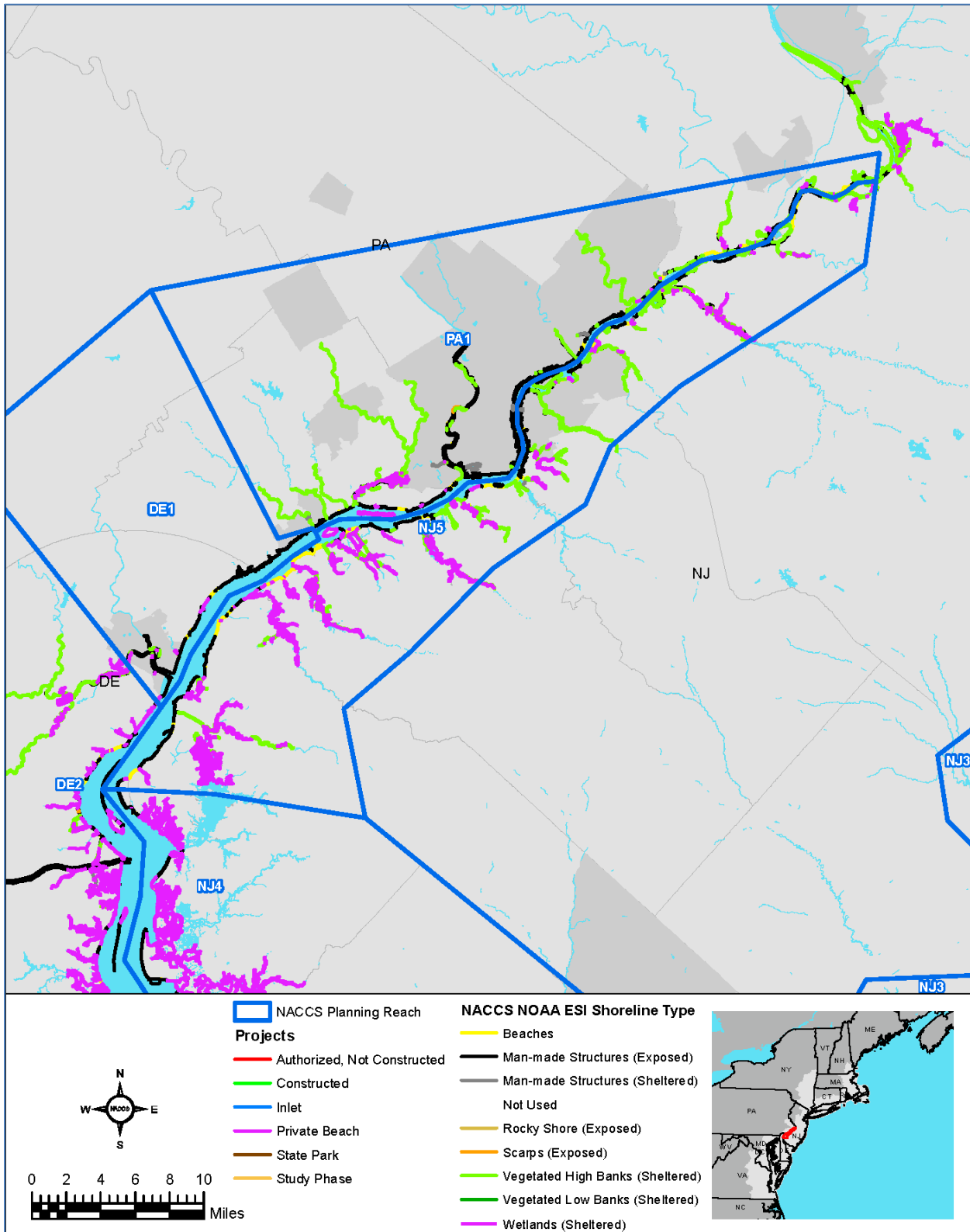


Figure IId-79: Shoreline Types (NJ5)

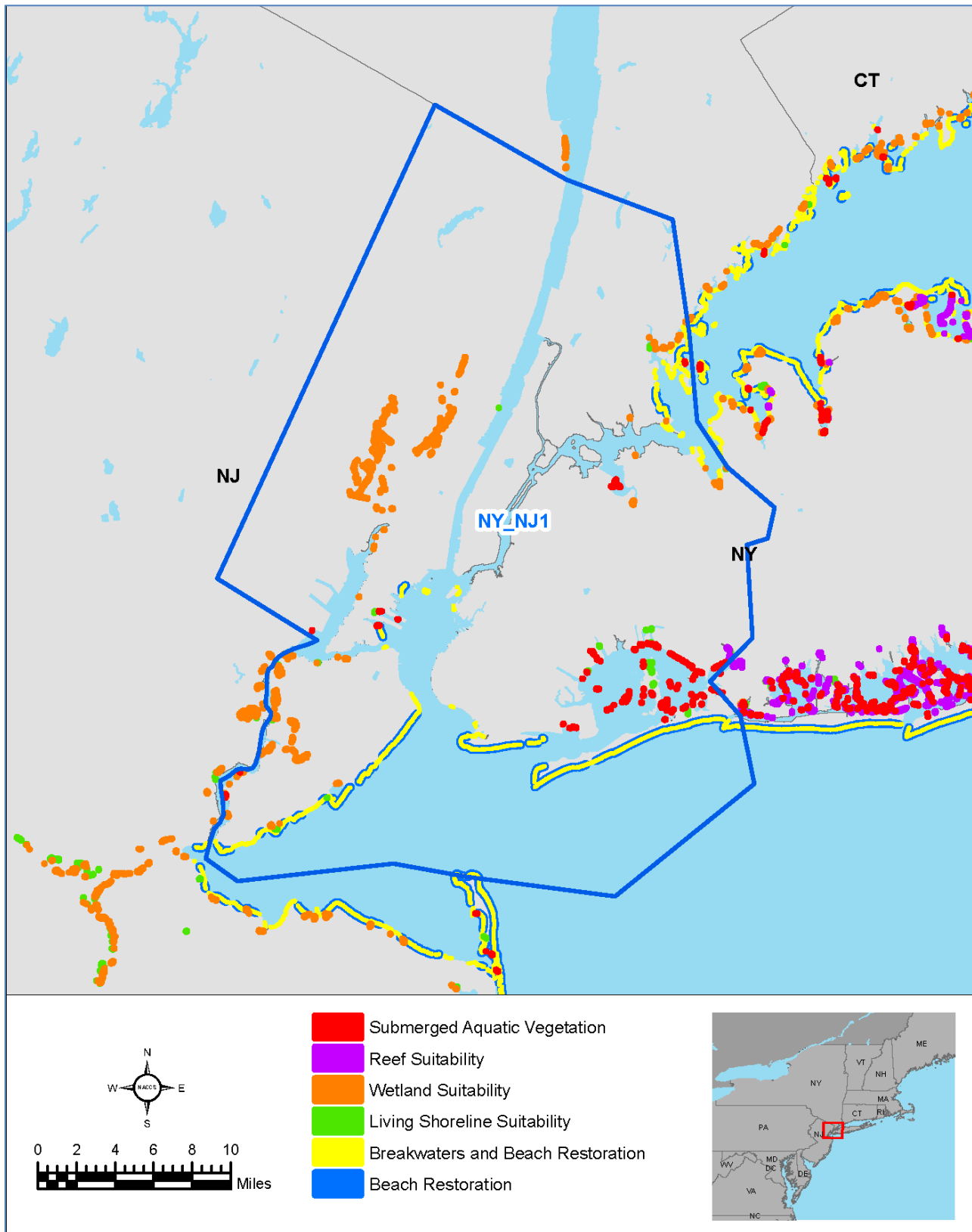


Figure IId-80: NNBf Measures Screening (NY-NJ1)

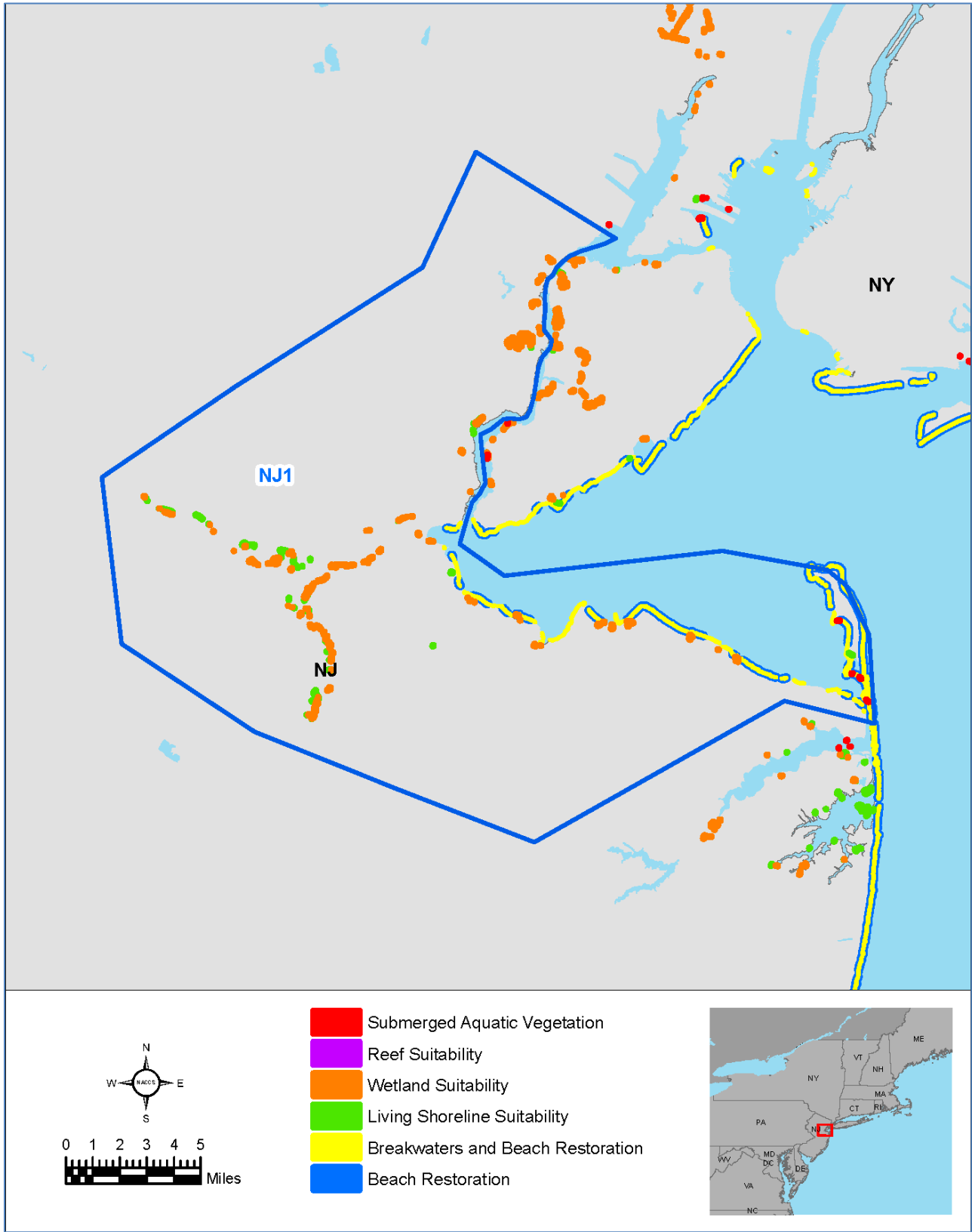


Figure II-d-81: NNBf Measures Screening (NJ1)

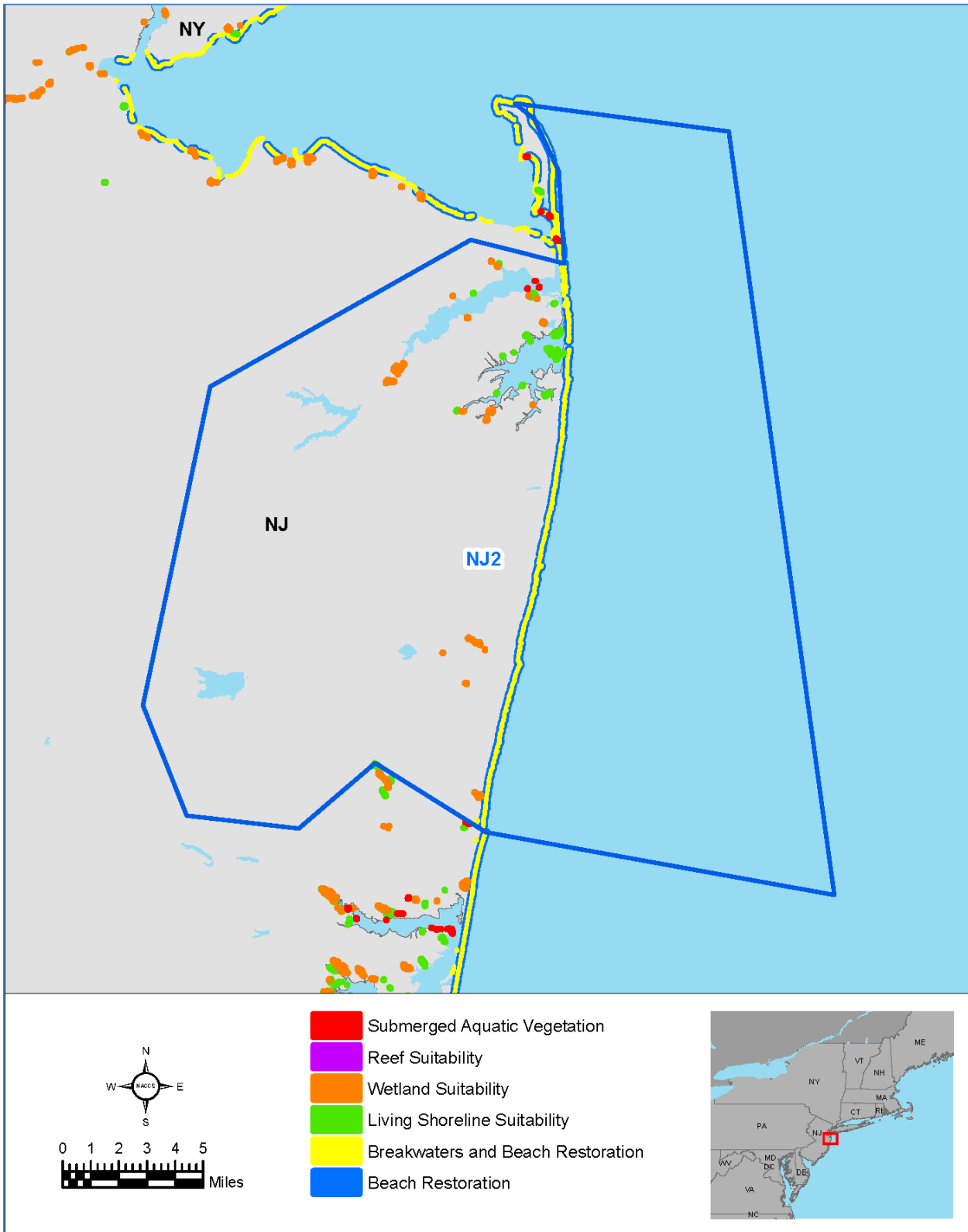


Figure IId-82: NNBF Measures Screening (NJ2)

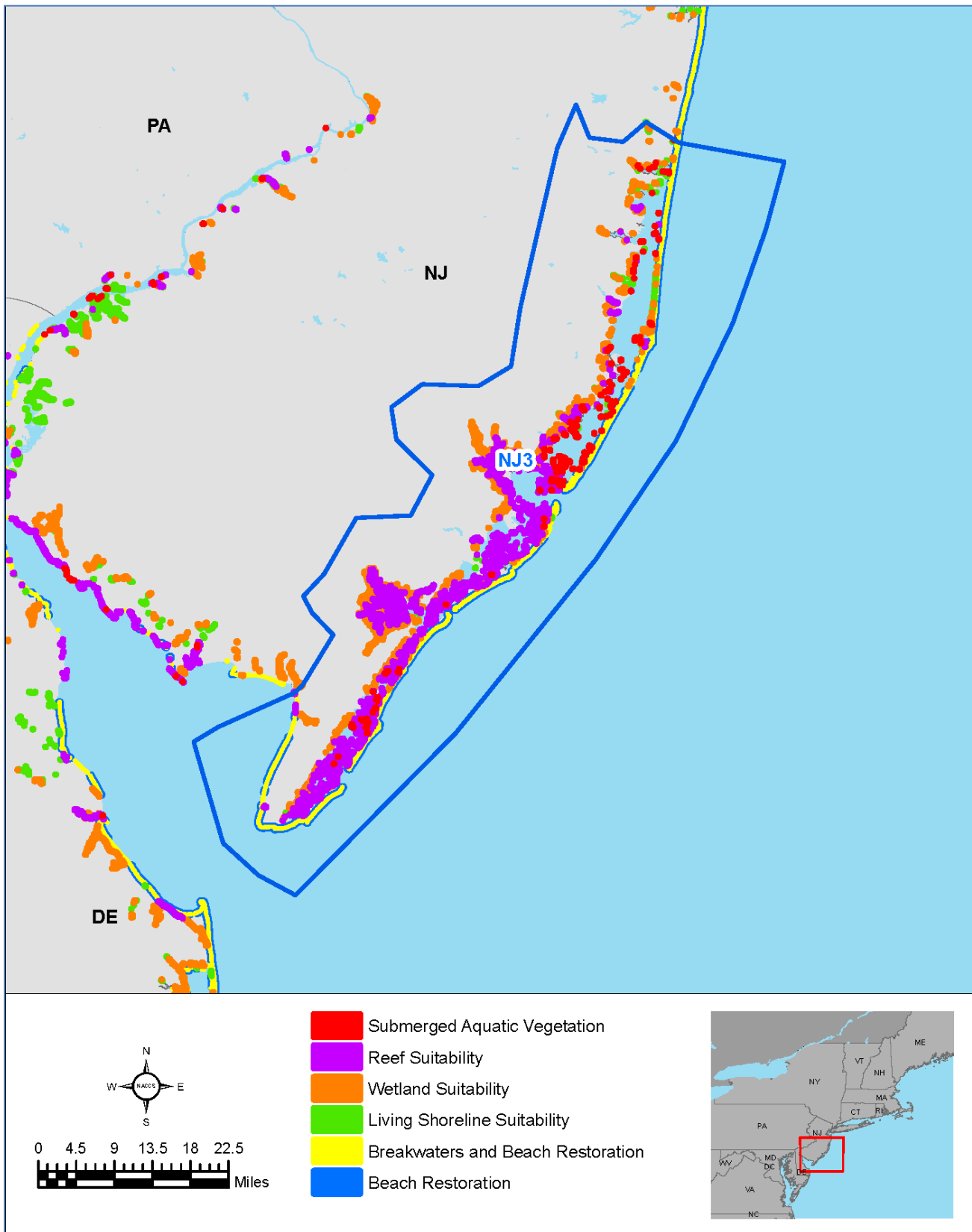


Figure IId-83: NNBf Measures Screening (NJ3)

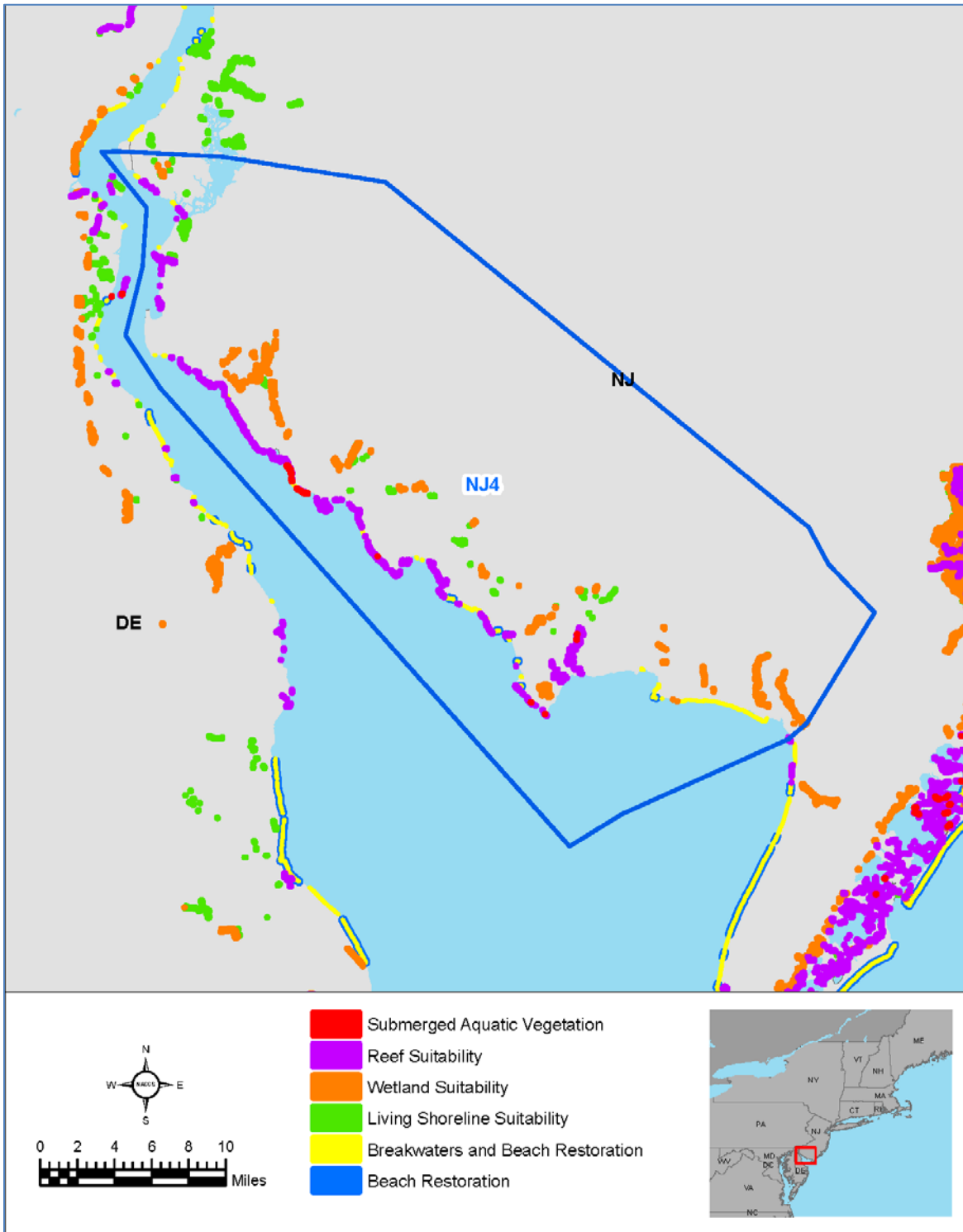


Figure IId-84: NNBf Measures Screening (NJ4)

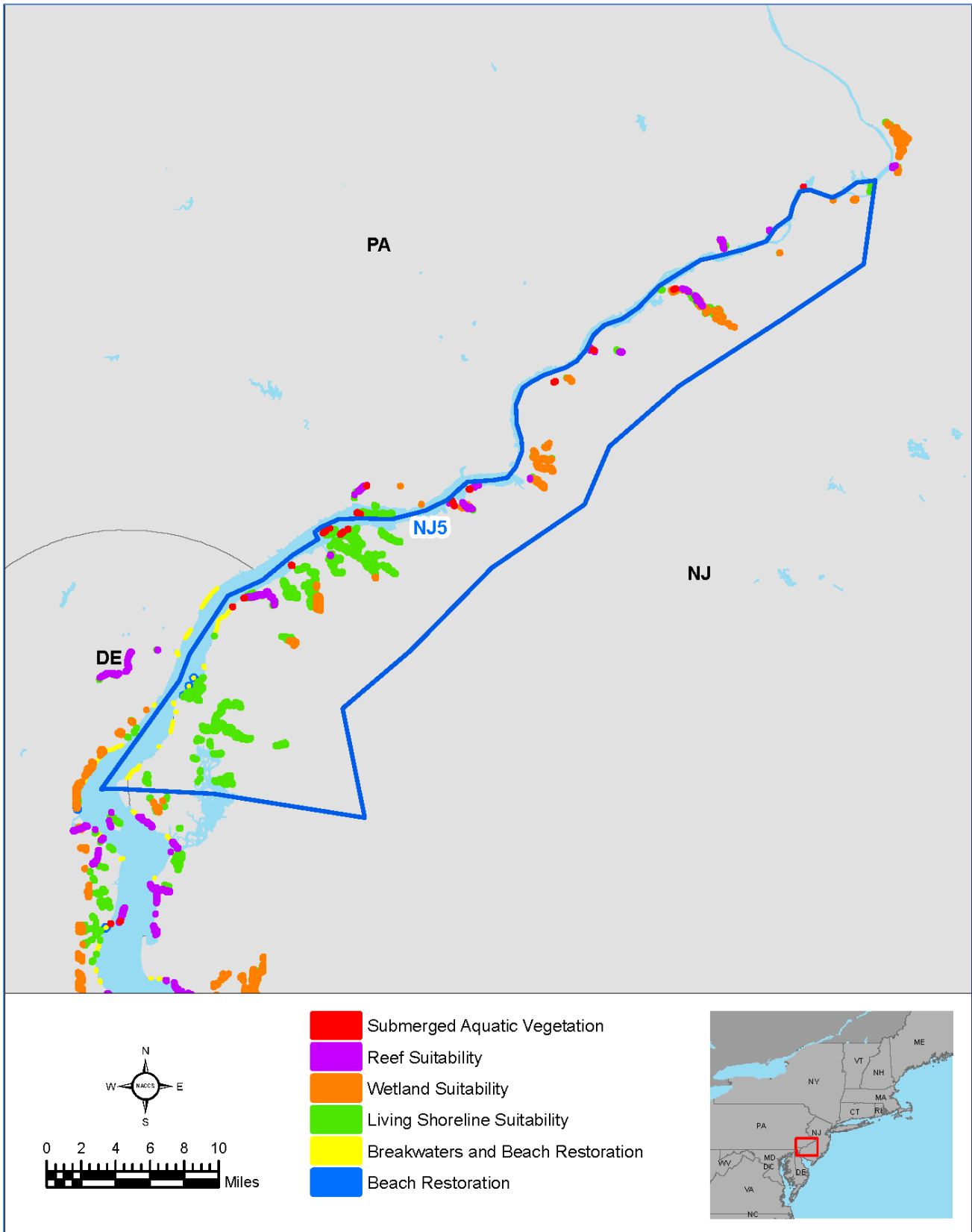


Figure 11d-85: NNBf Measures Screening (NJ5)



e. State of Delaware



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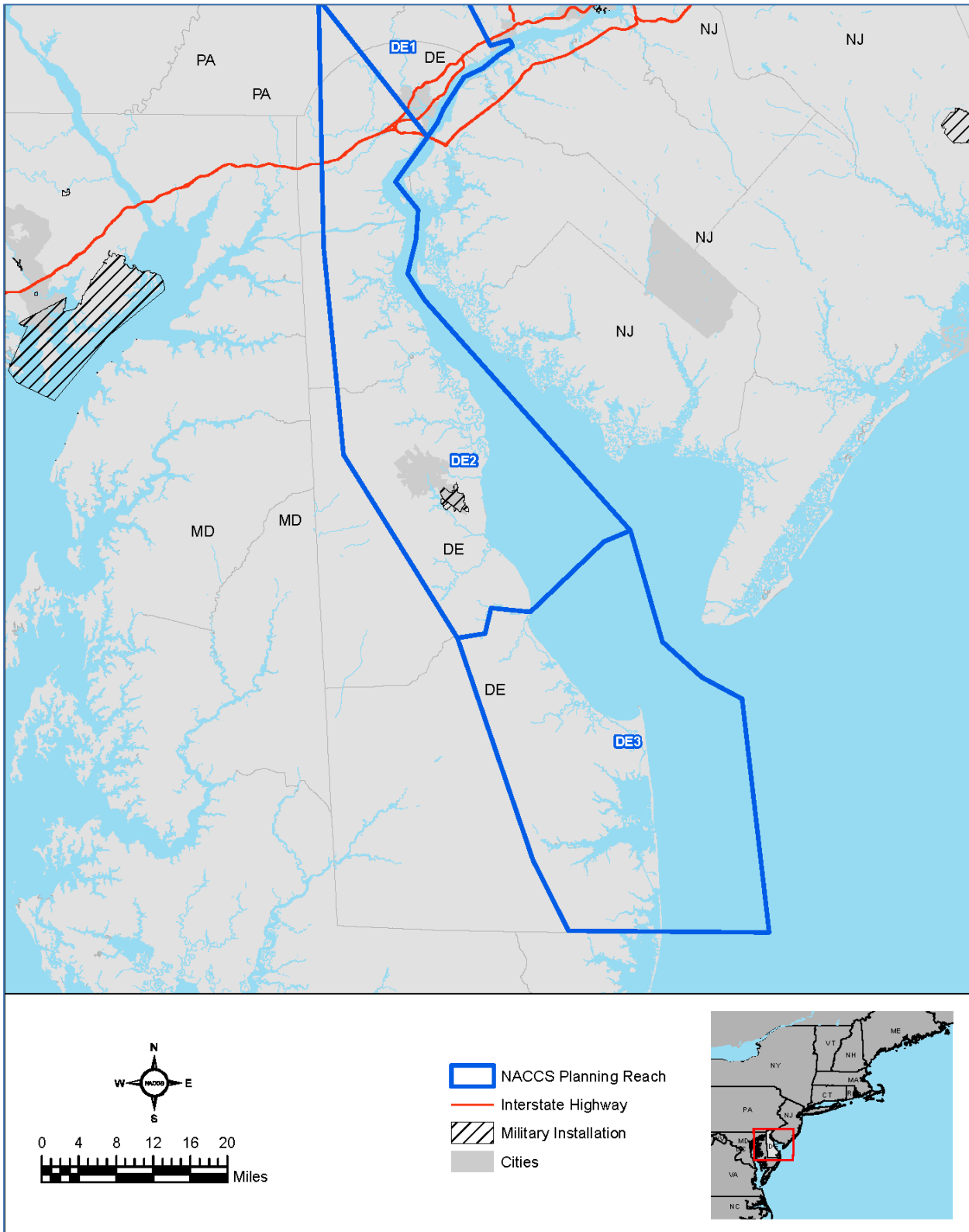


Figure IIe-1: Planning Reaches for the State of Delaware

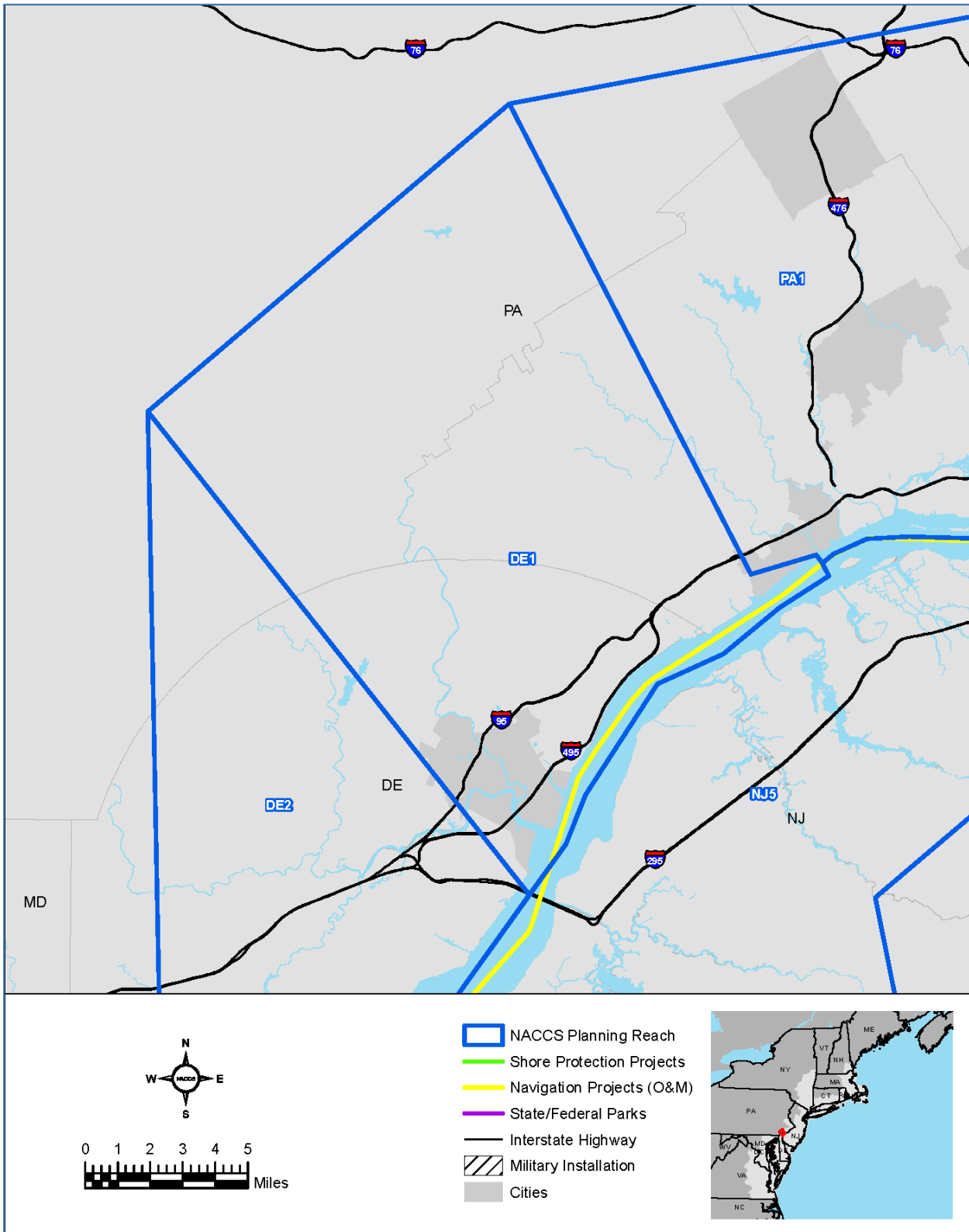


Figure I1e-2: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (DE1)

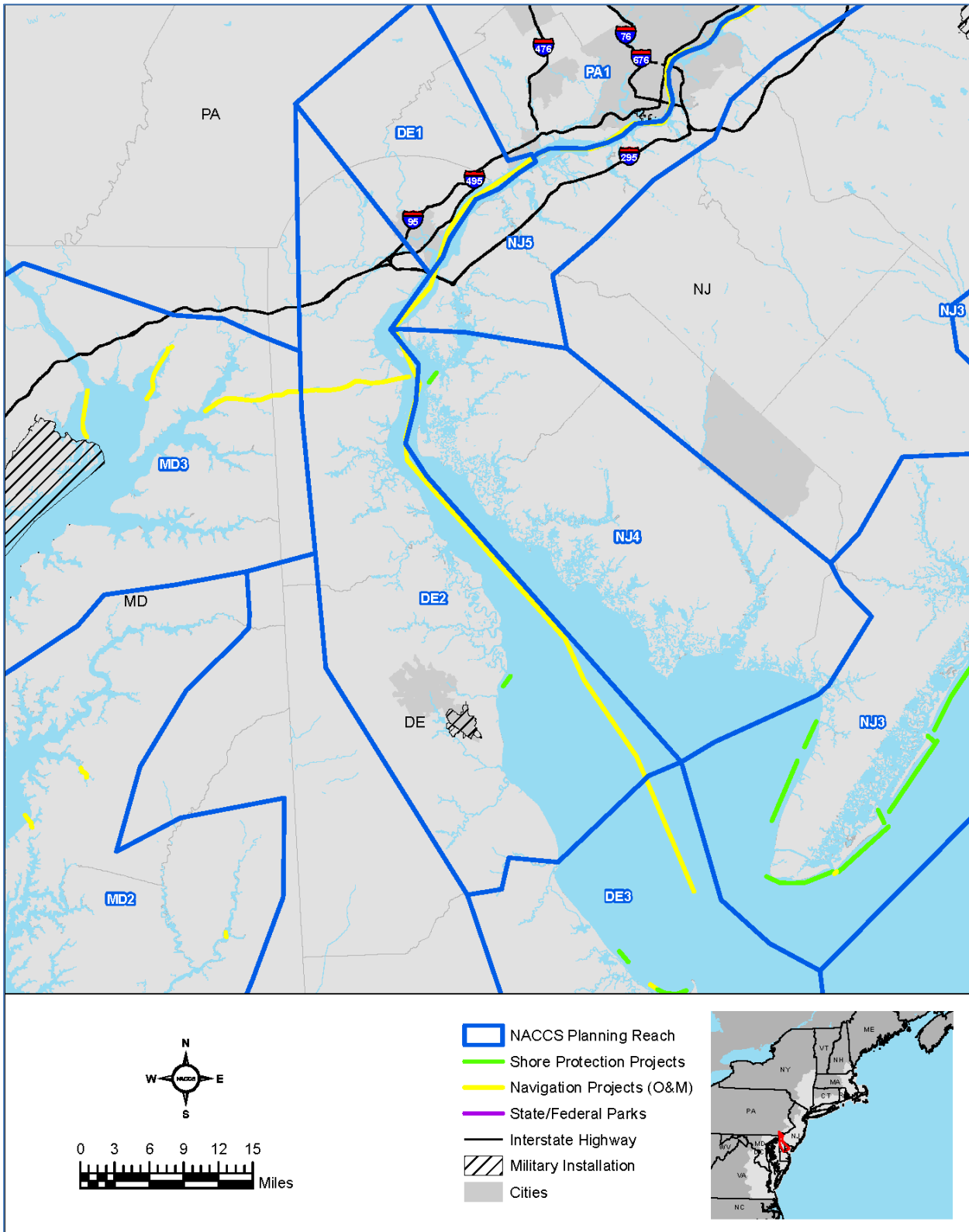


Figure 11e-3: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (DE2)

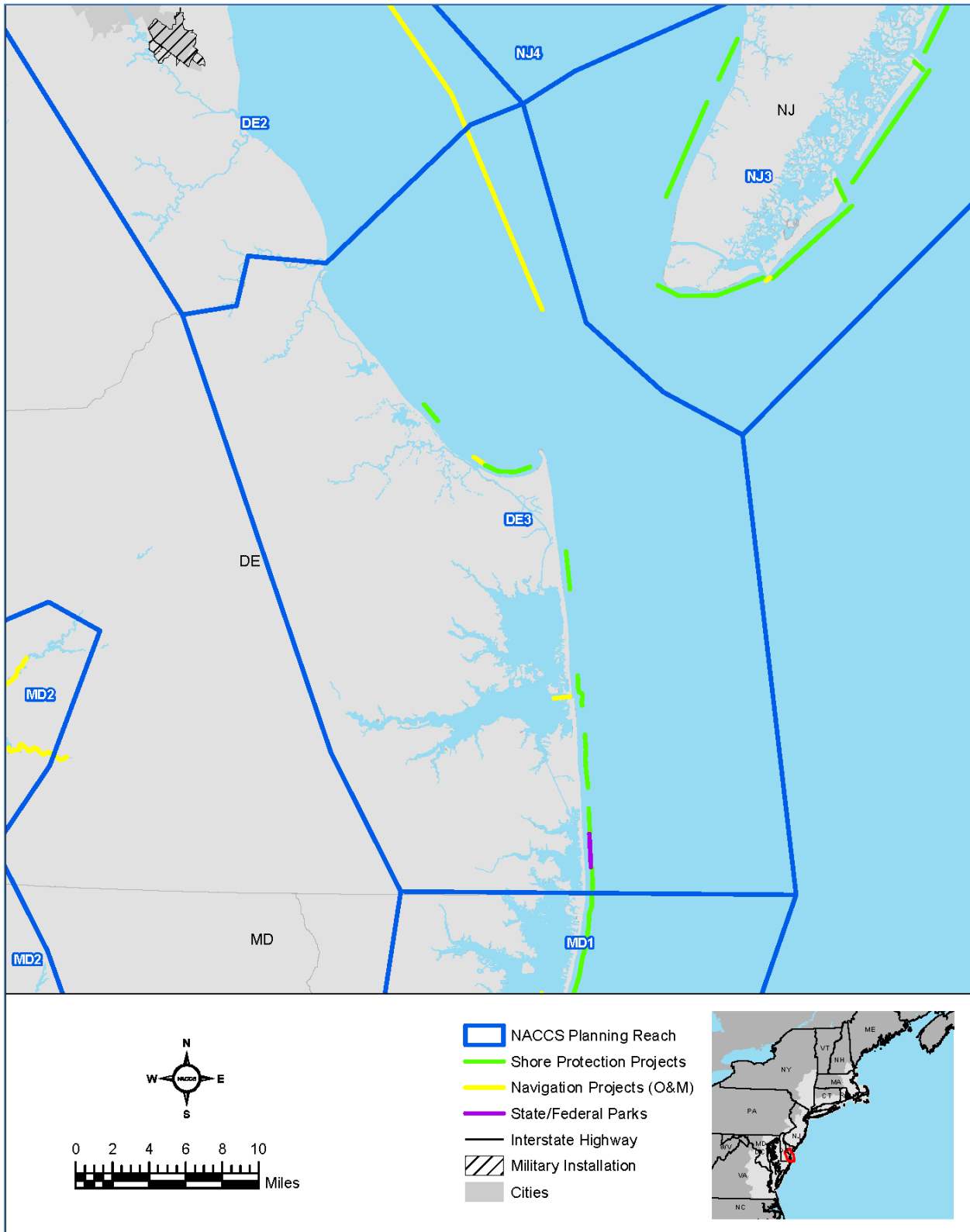


Figure 11e-4: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (DE3)

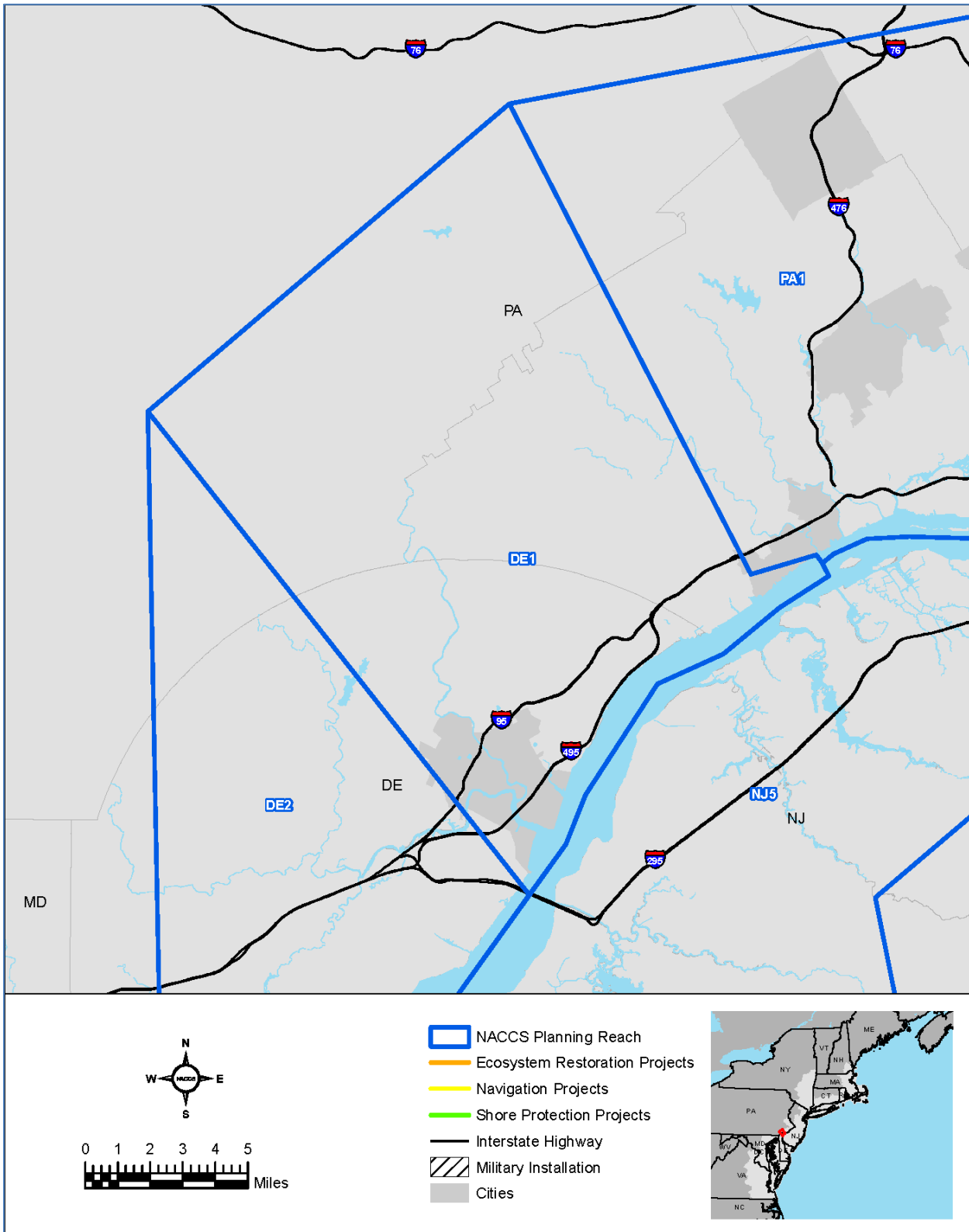


Figure 11e-5: State Projects Included in the Post-Hurricane Sandy Landscape Condition (DE1)

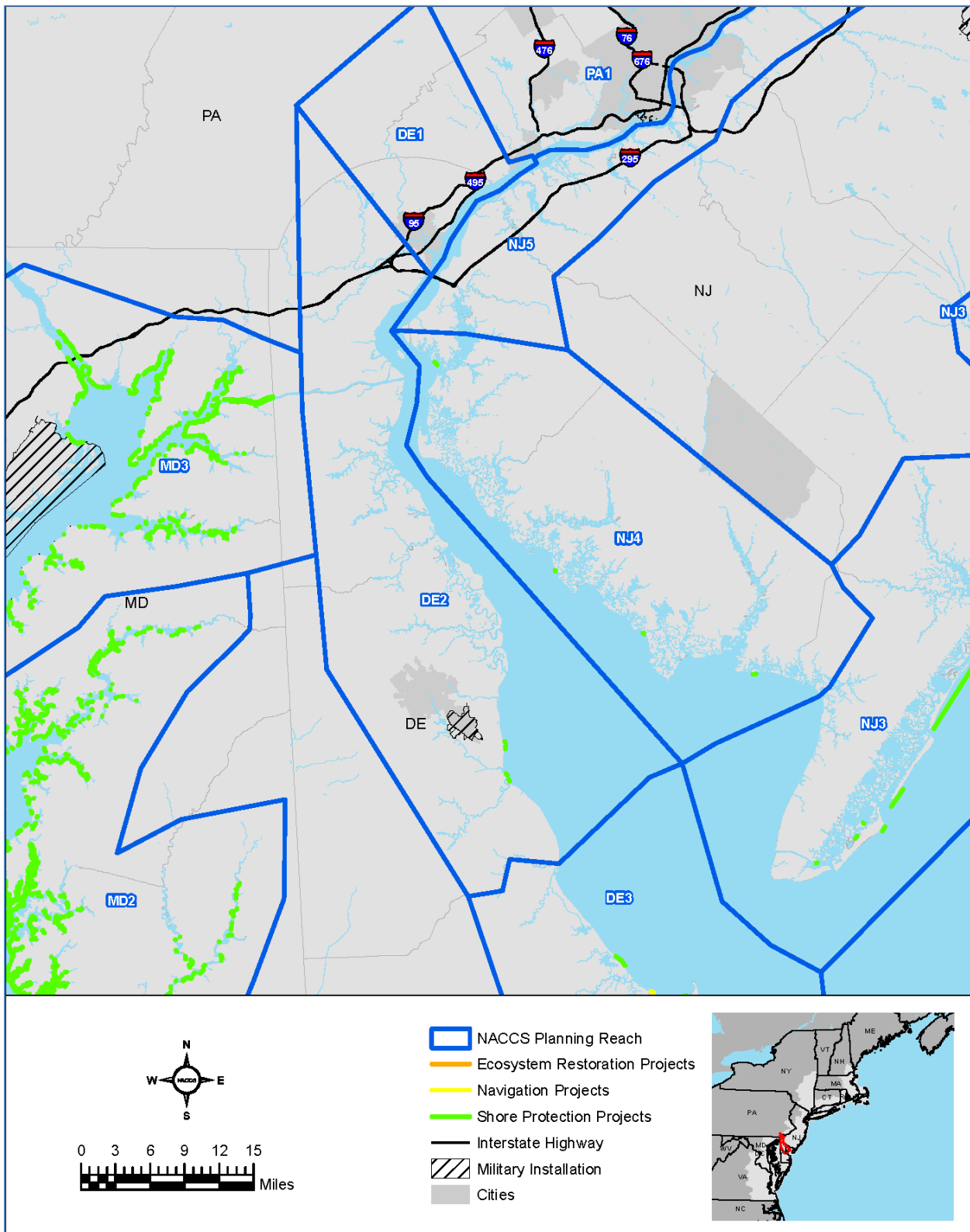


Figure 11e-6: State Projects Included in the Post-Hurricane Sandy Landscape Condition (DE2)

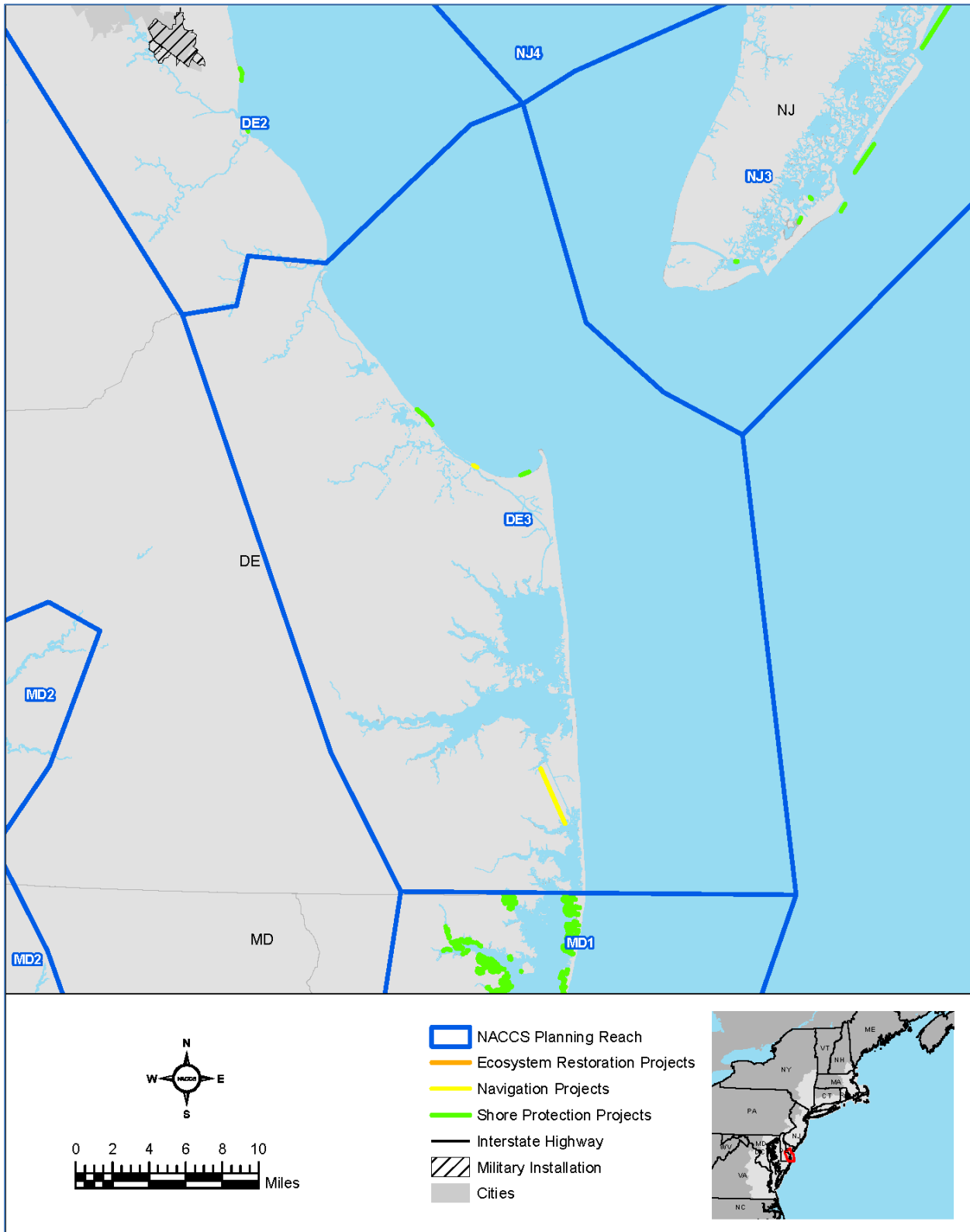


Figure 11e-7: State Projects Included in the Post-Hurricane Sandy Landscape Condition (DE3)

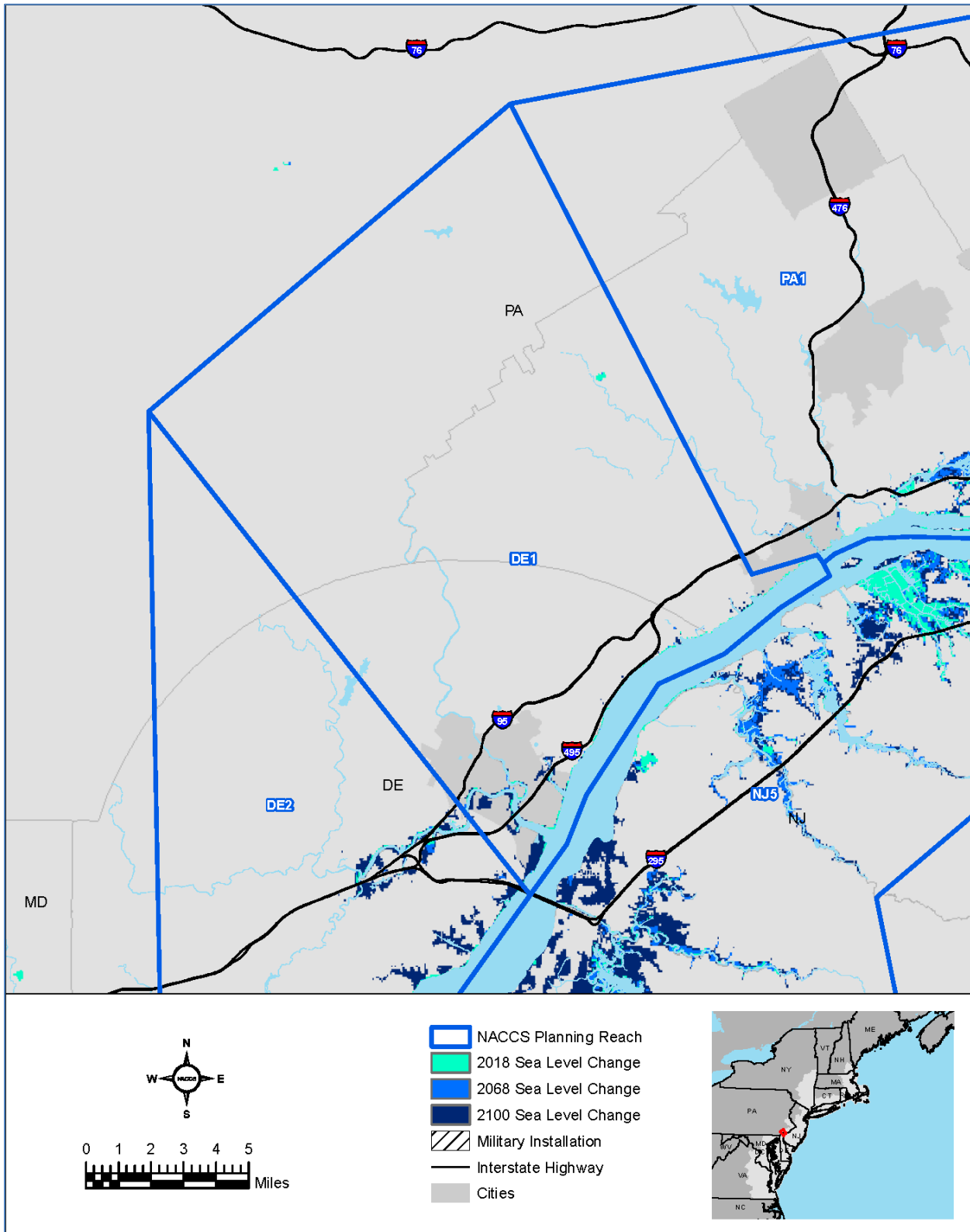


Figure 11e-8: USACE High Scenario Future Mean Sea Level Change Inundation (DE1)

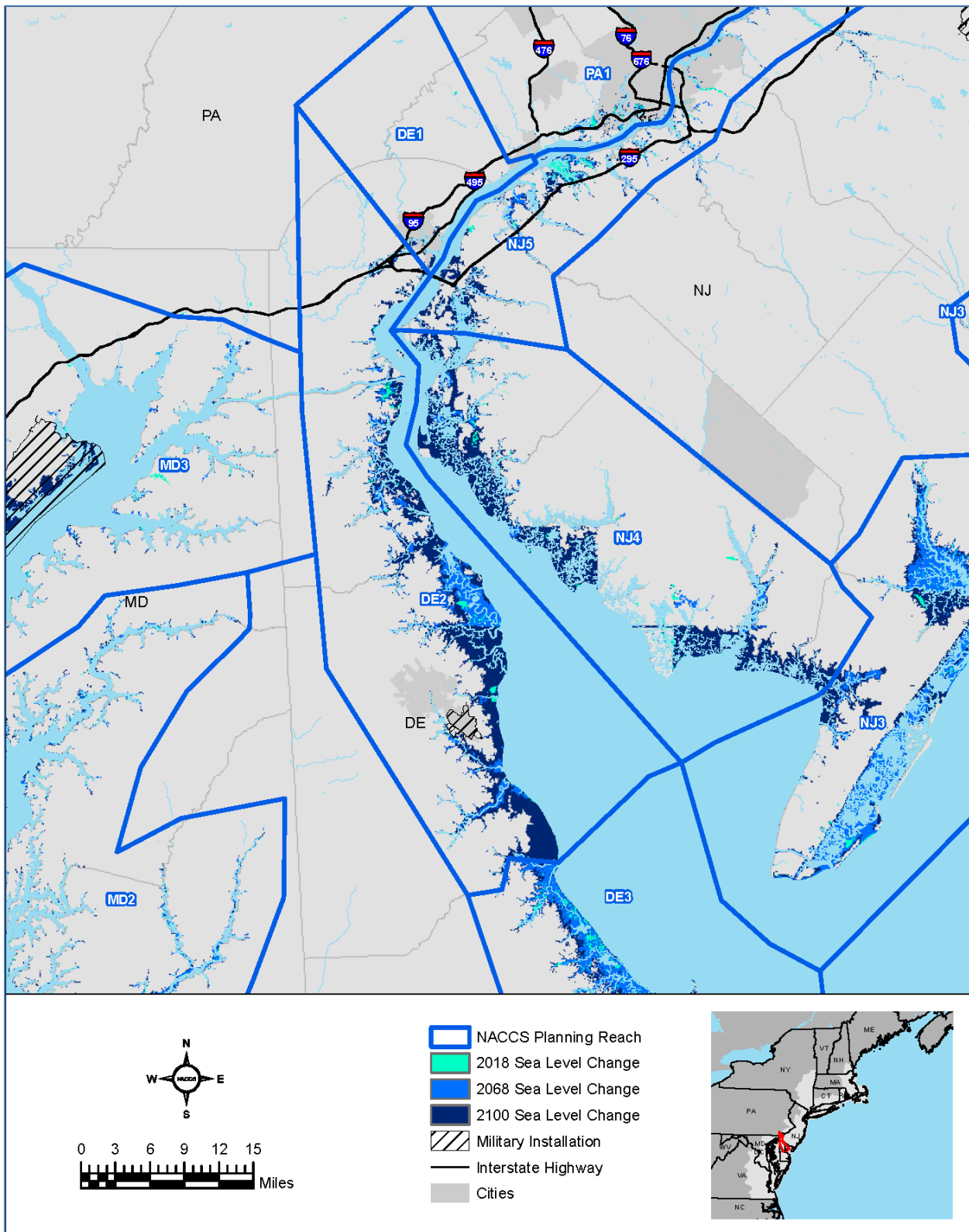


Figure 11e-9: USACE High Scenario Future Mean Sea Level Change Inundation (DE2)

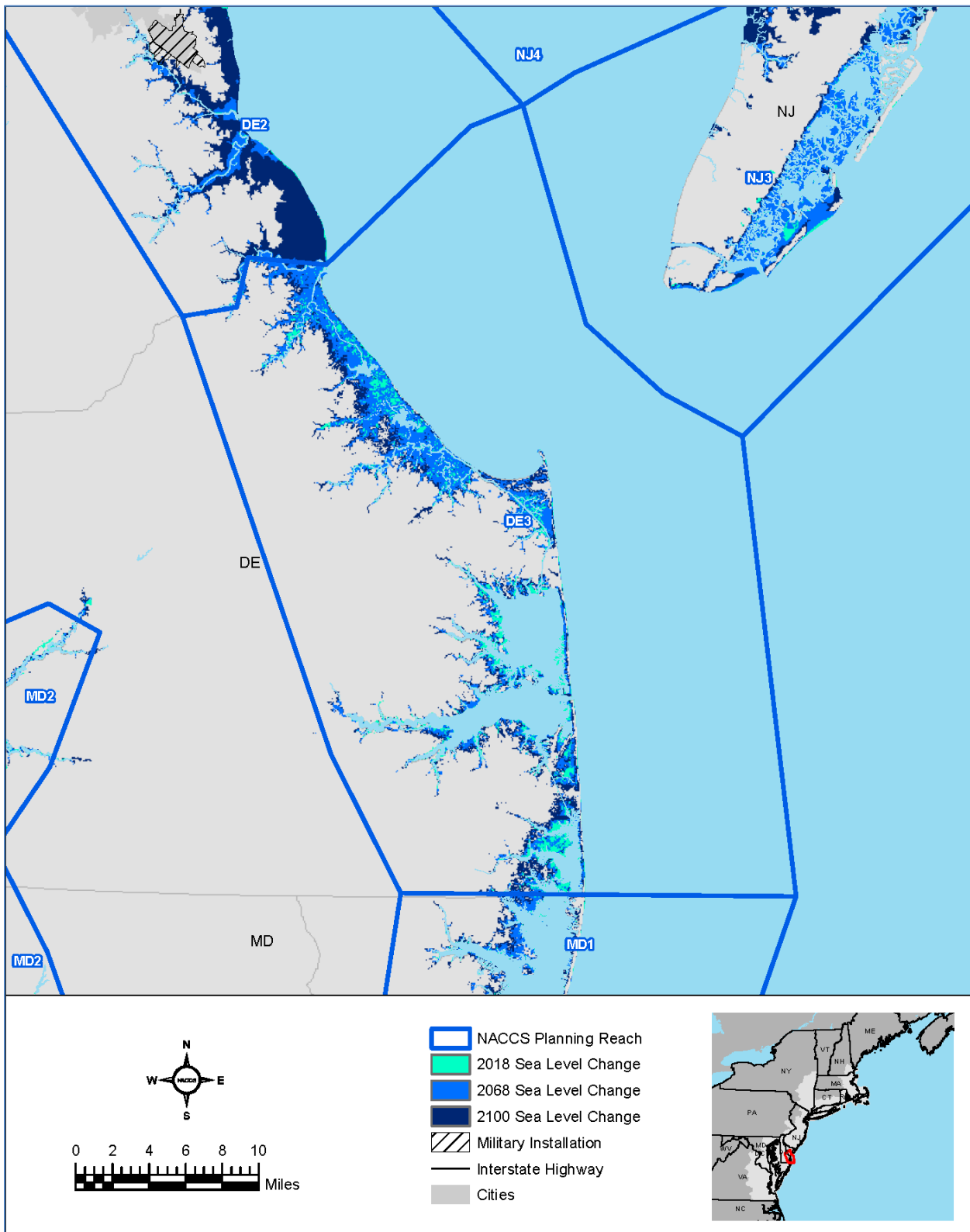


Figure IIe-10: USACE High Scenario Future Mean Sea Level Change Inundation (DE3)

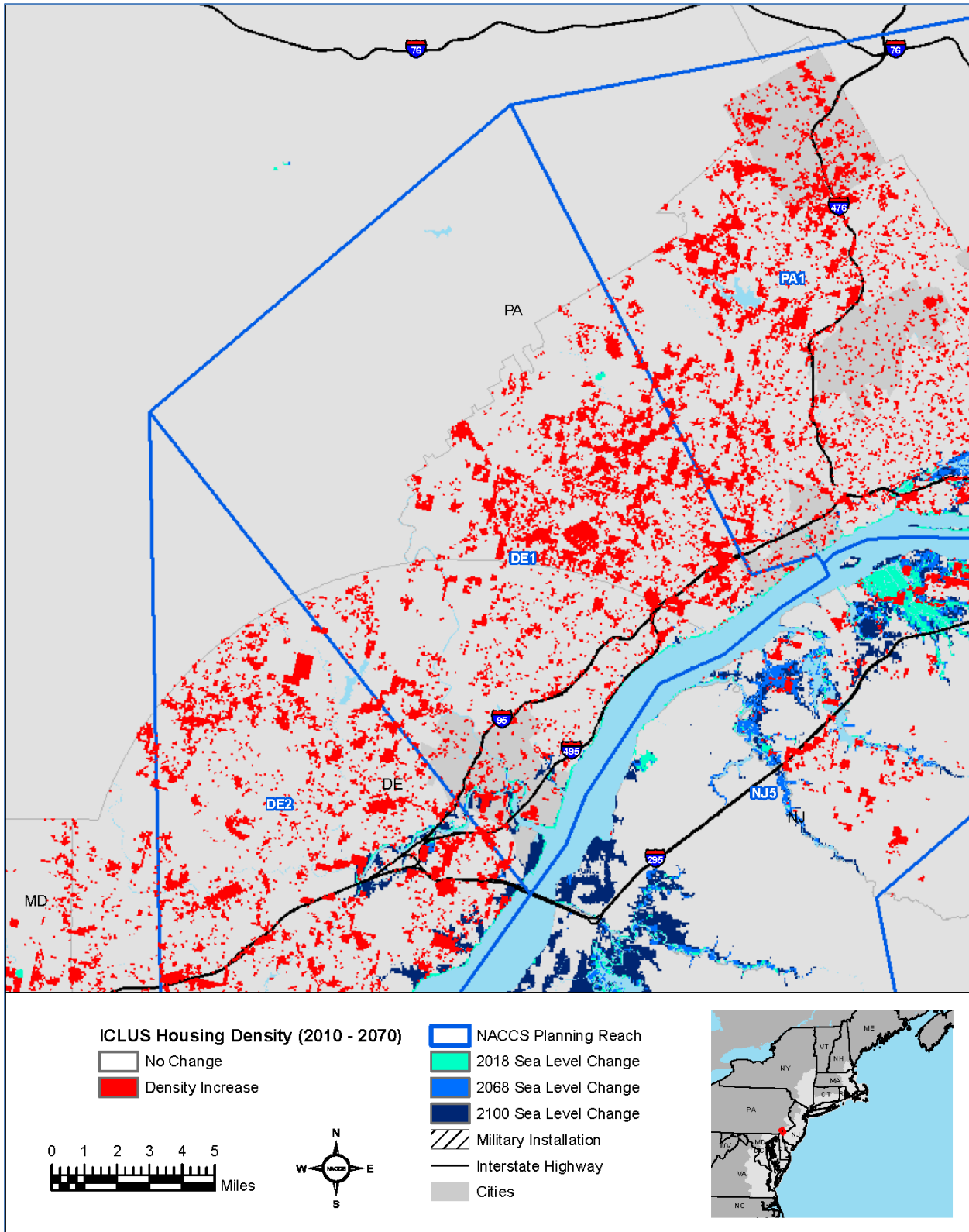


Figure 11e-11: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (DE1)

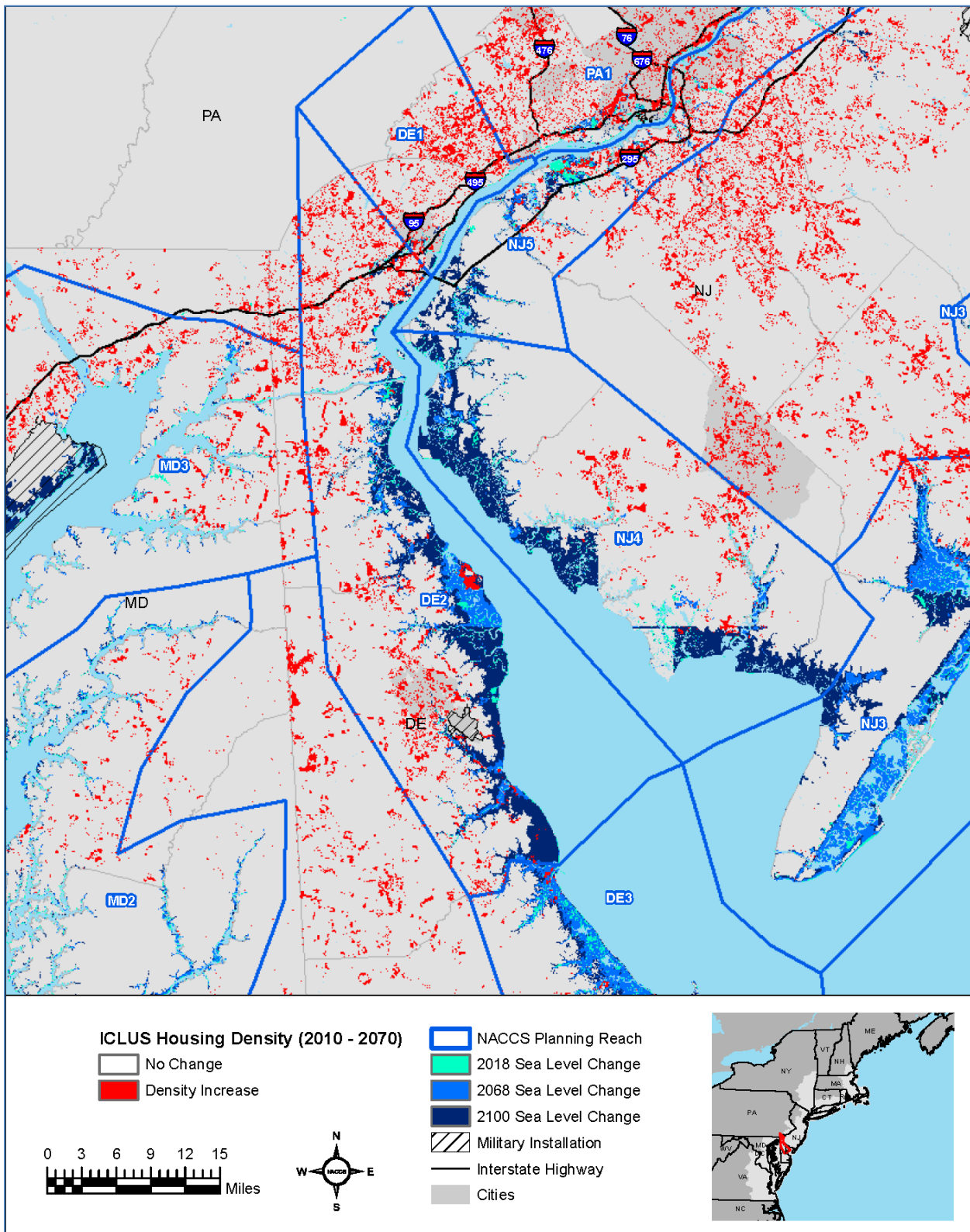


Figure 11e-12: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (DE2)

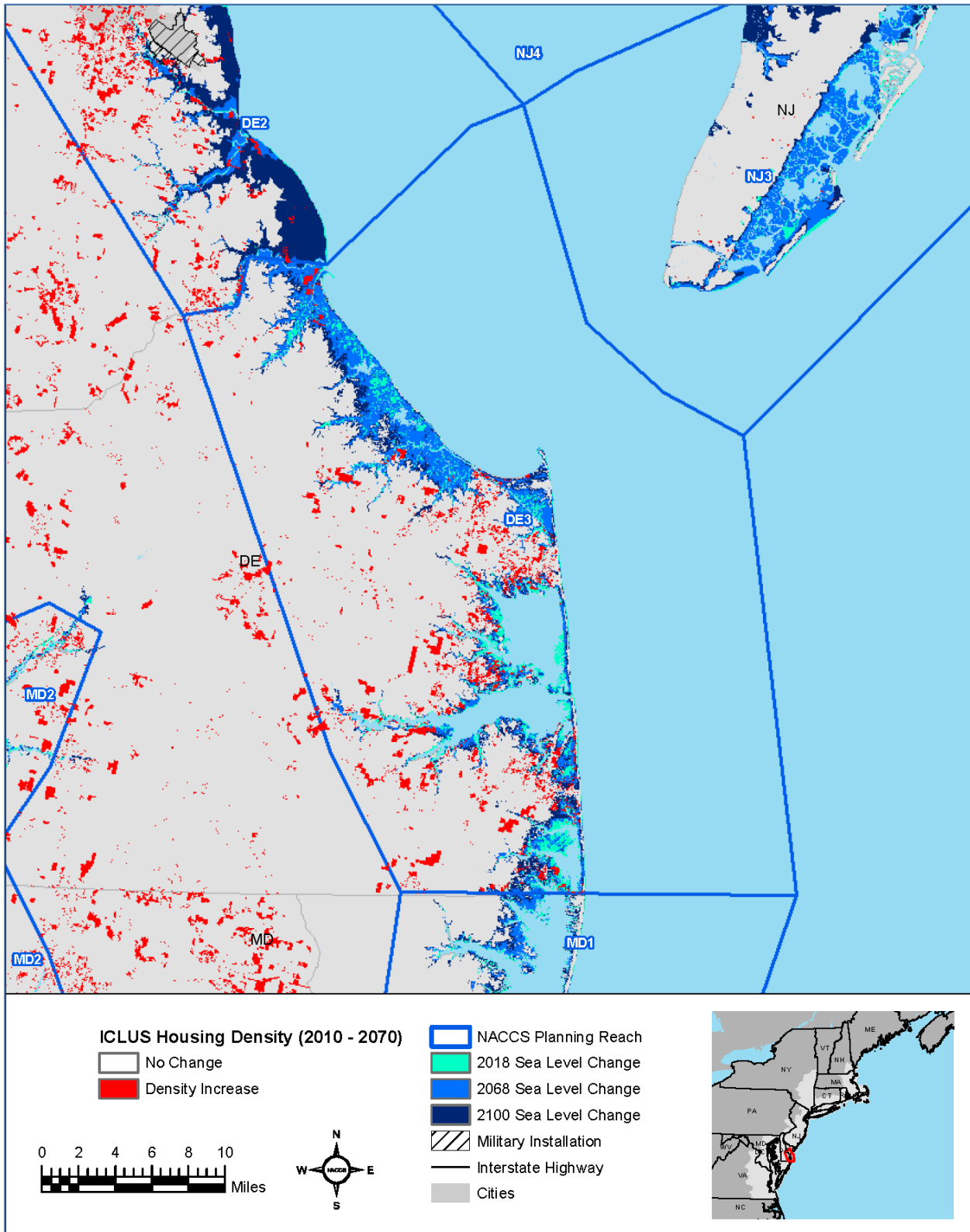


Figure 11e-13: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (DE3)

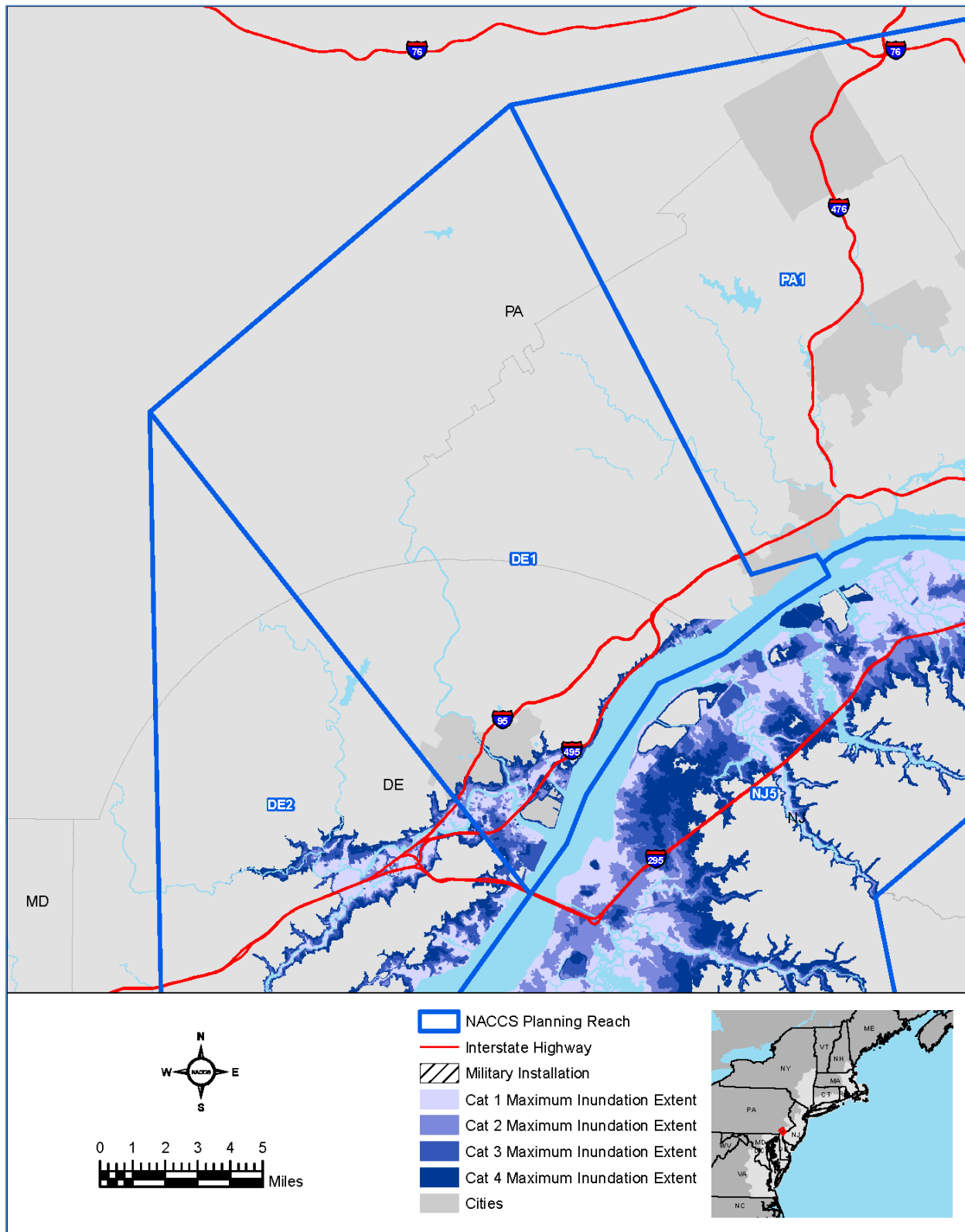


Figure Ite-14: Impacted Area Category 1-4 Water Levels (DE1)

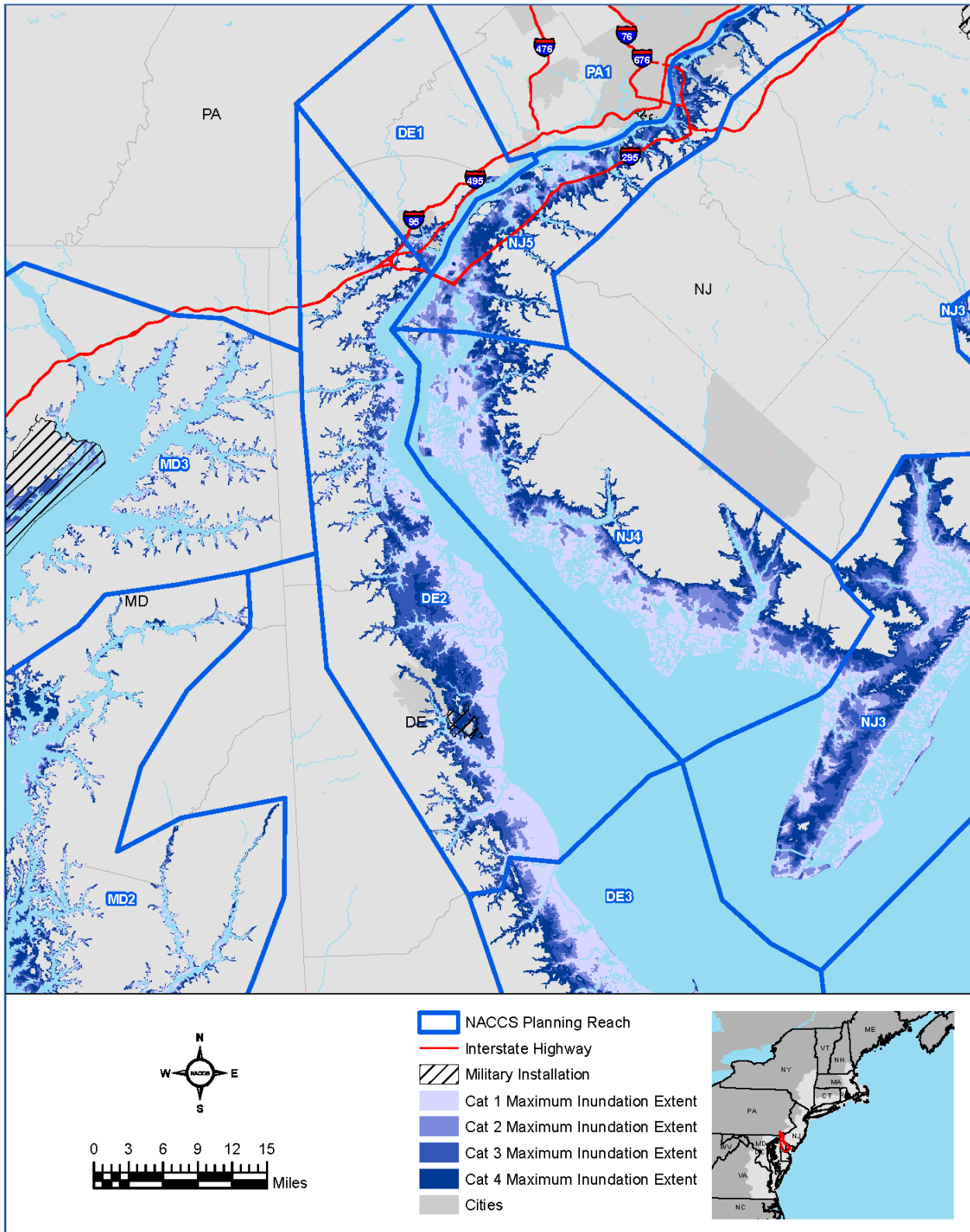


Figure 11e-15: Impacted Area Category 1-4 Water Levels (DE2)

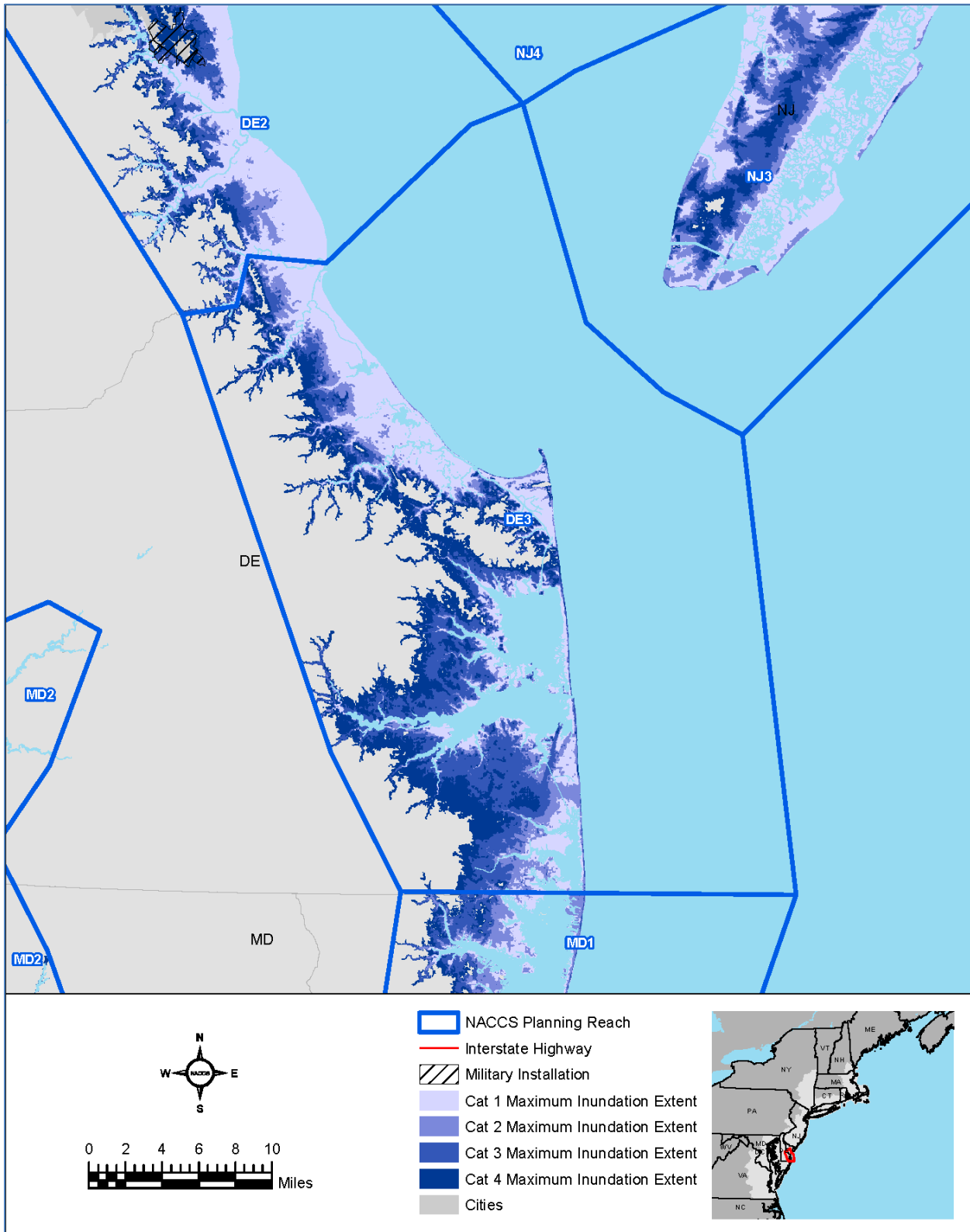


Figure I1e-16: Impacted Area Category 1-4 Water Levels (DE3)

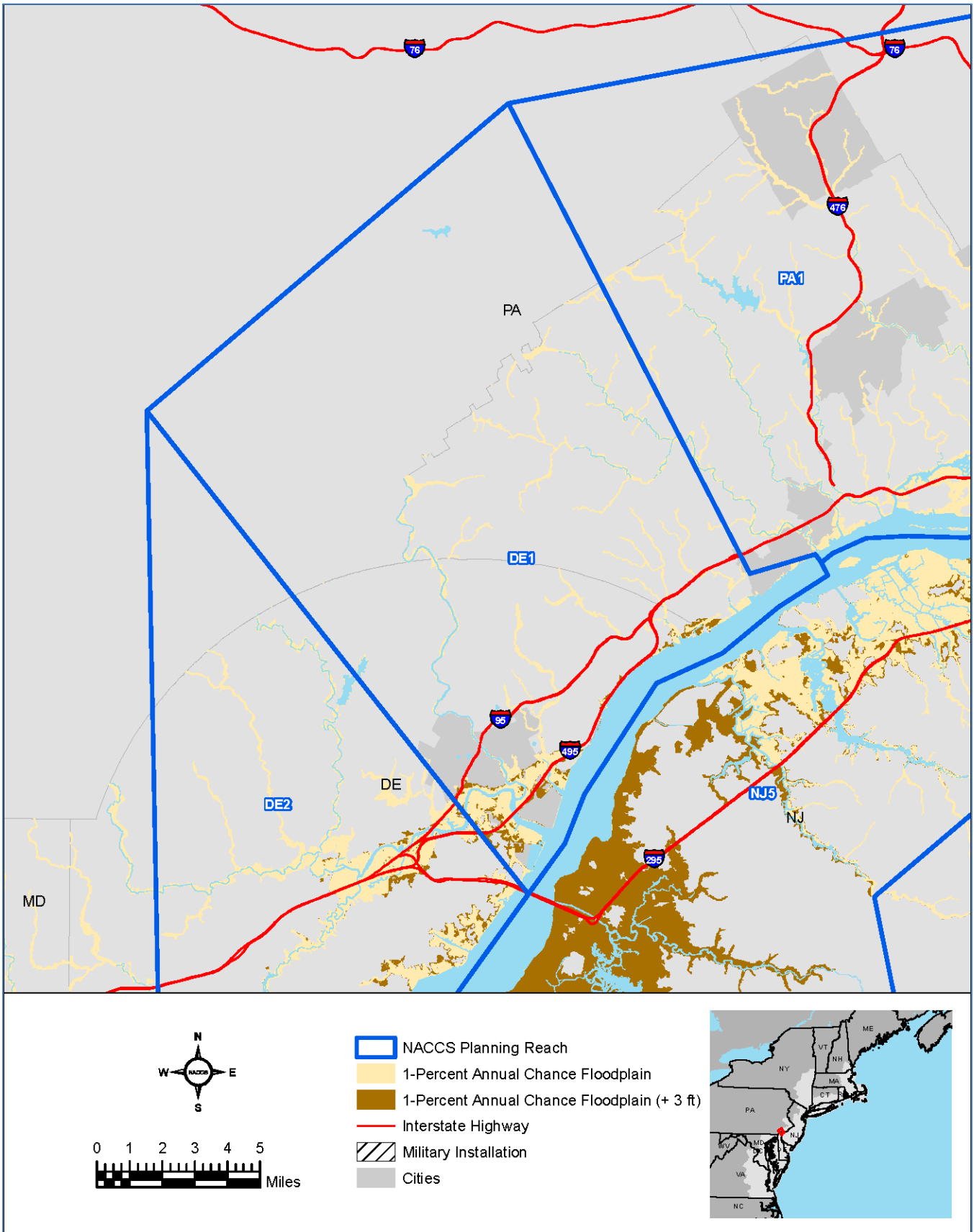


Figure Ite-17: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (DE1)

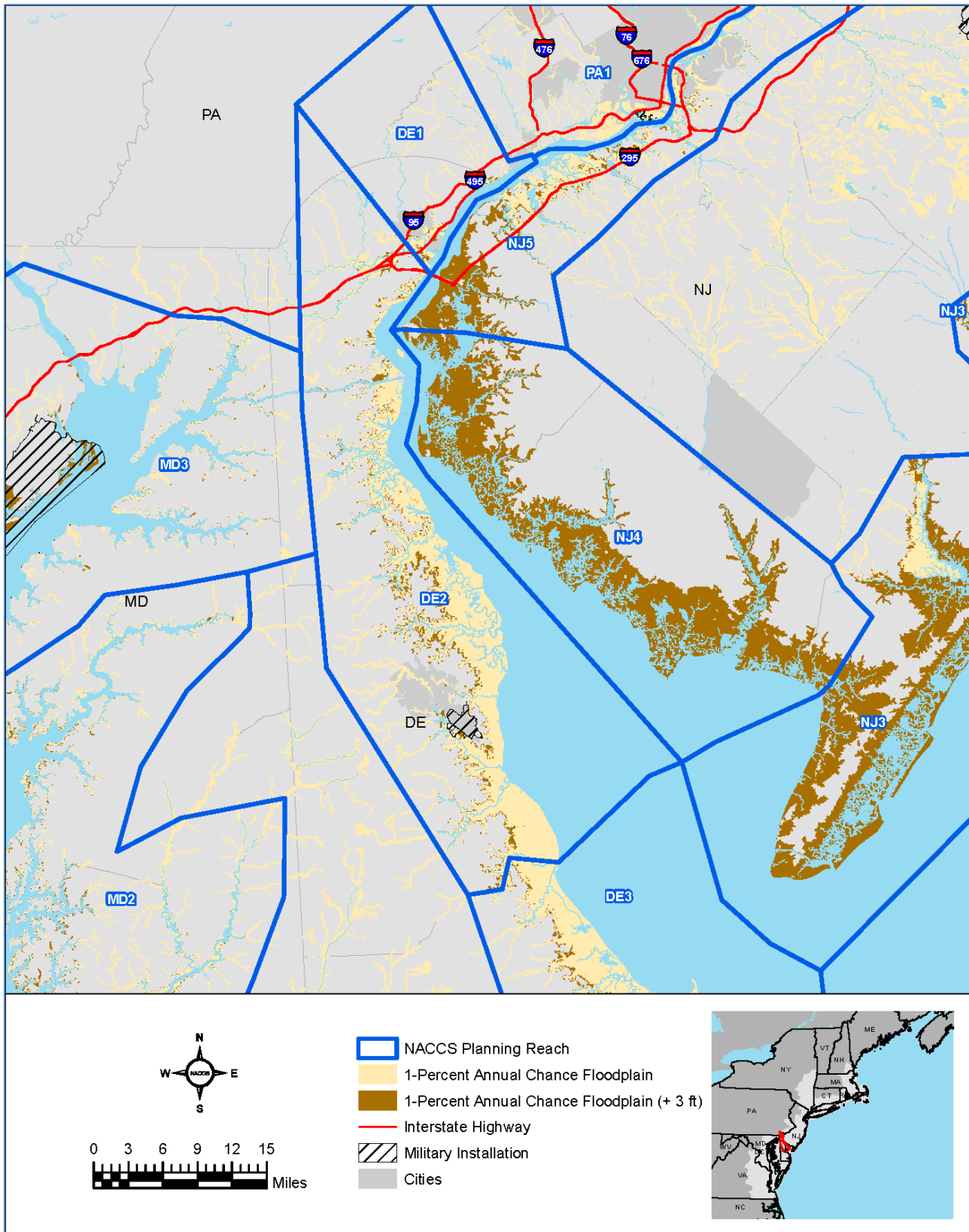


Figure Ite-18: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (DE2)

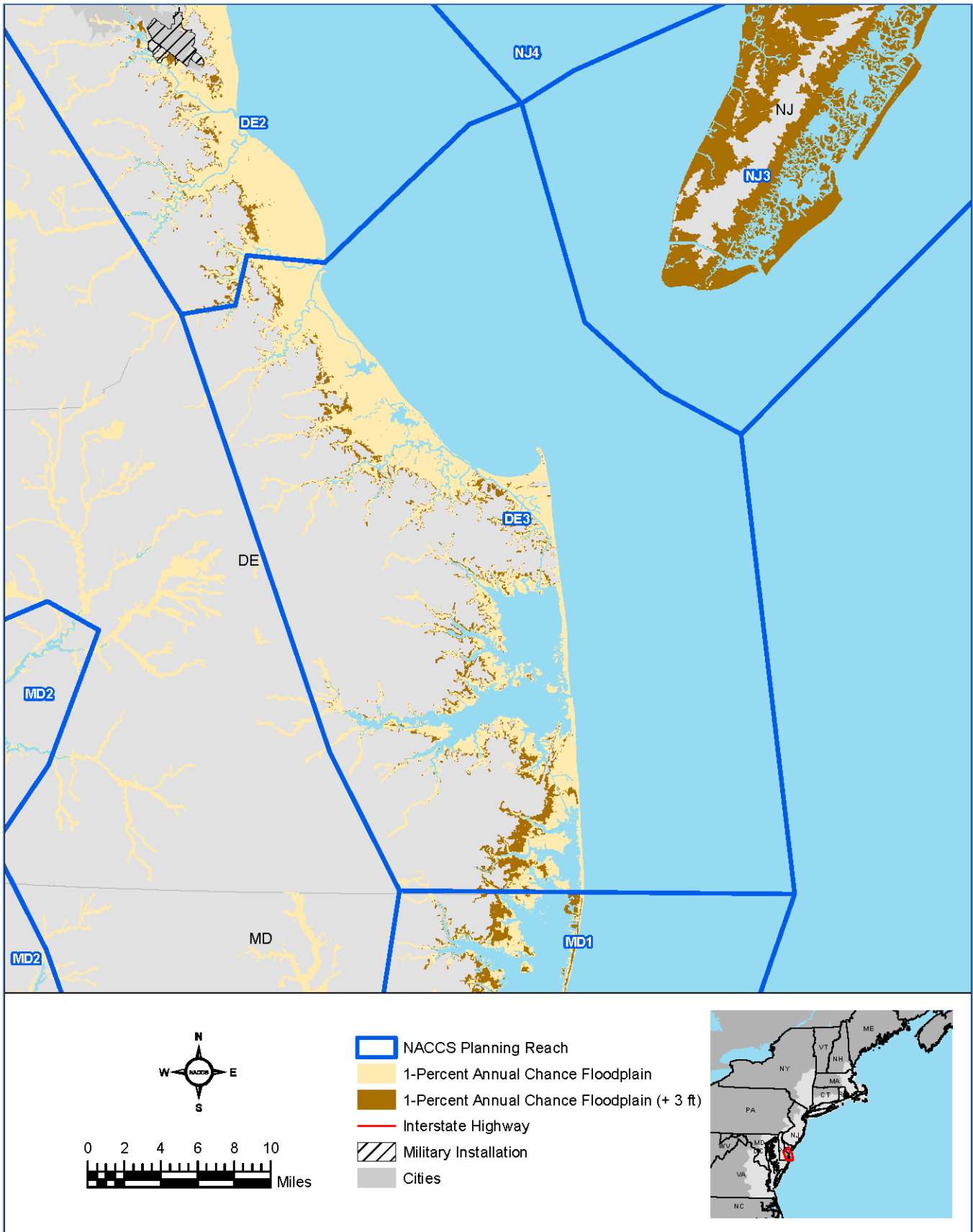


Figure Ite-19: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (DE3)

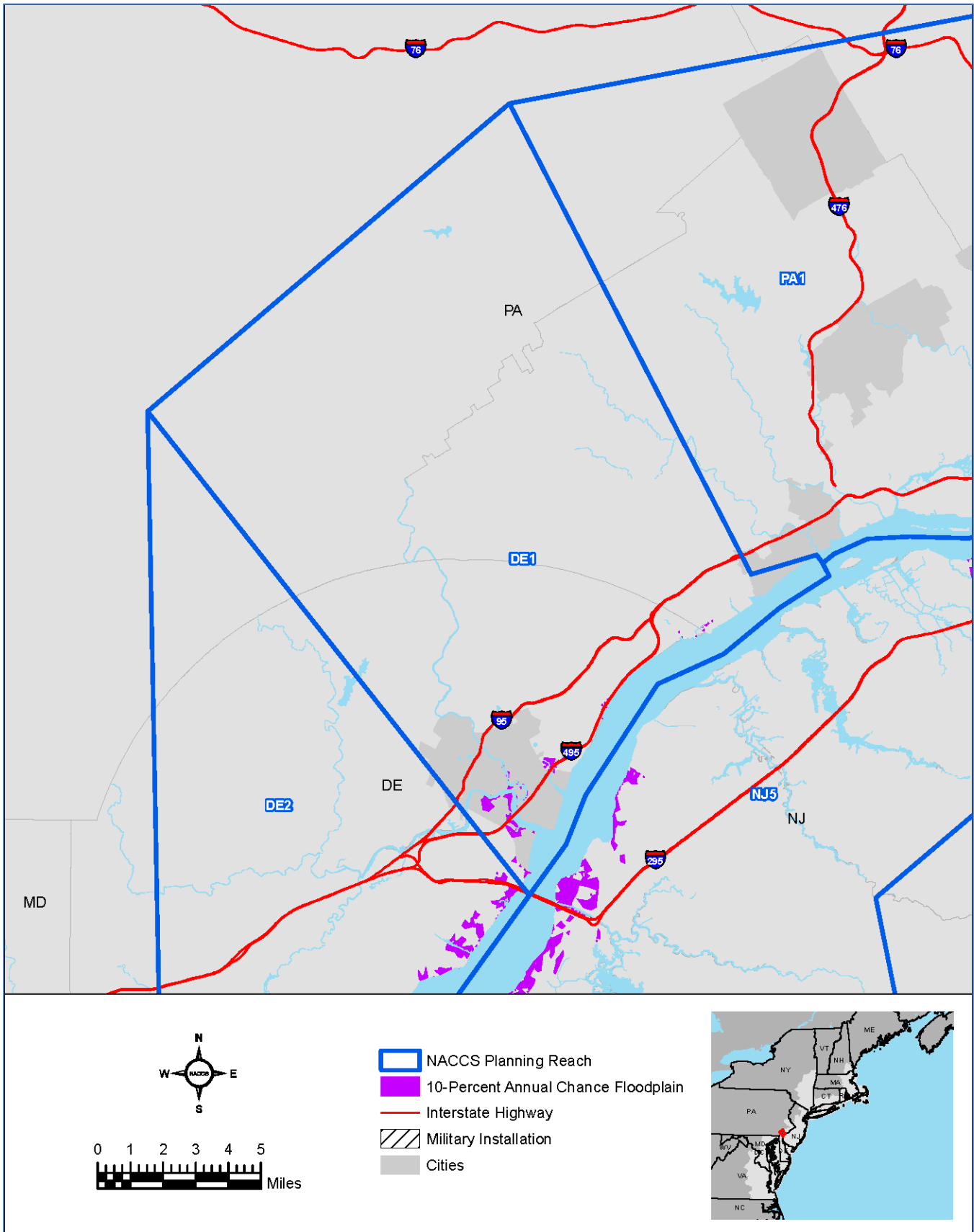


Figure I1e-20: Impacted Area 10-Percent Flood Water Surface (DE1)

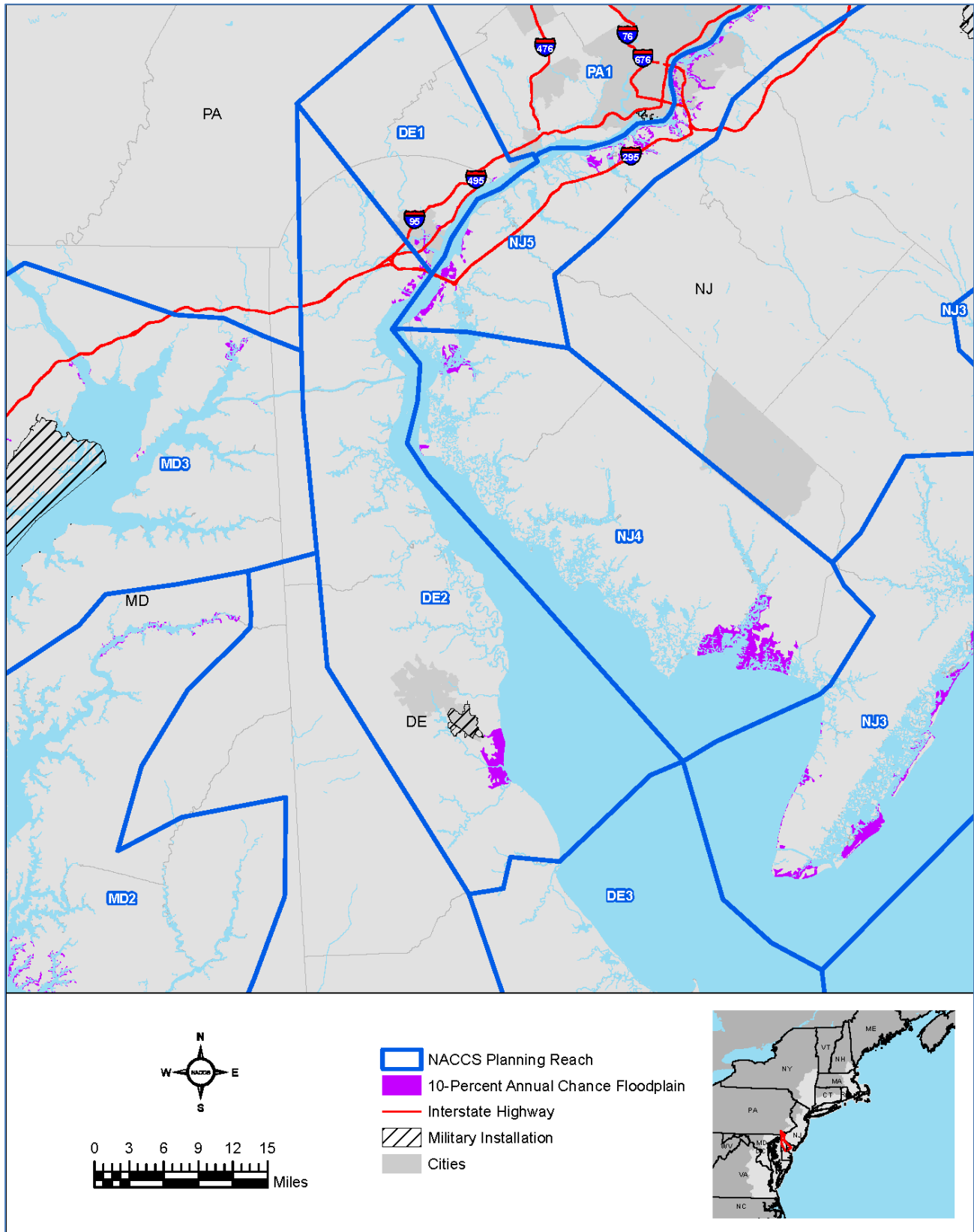


Figure IIe-21: Impacted Area 10-Percent Flood Water Surface (DE2)

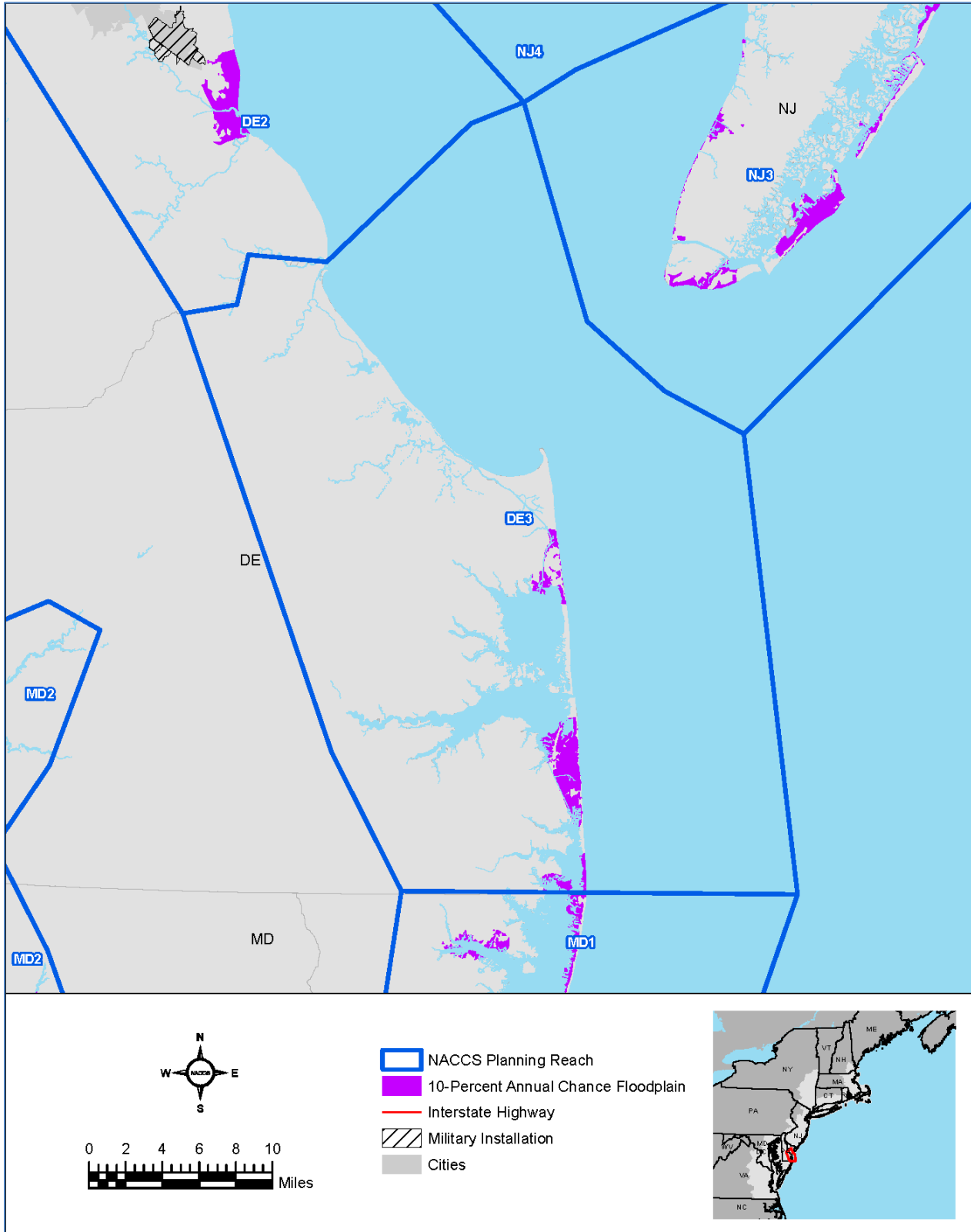


Figure IIe-22: Impacted Area 10-Percent Flood Water Surface (DE3)

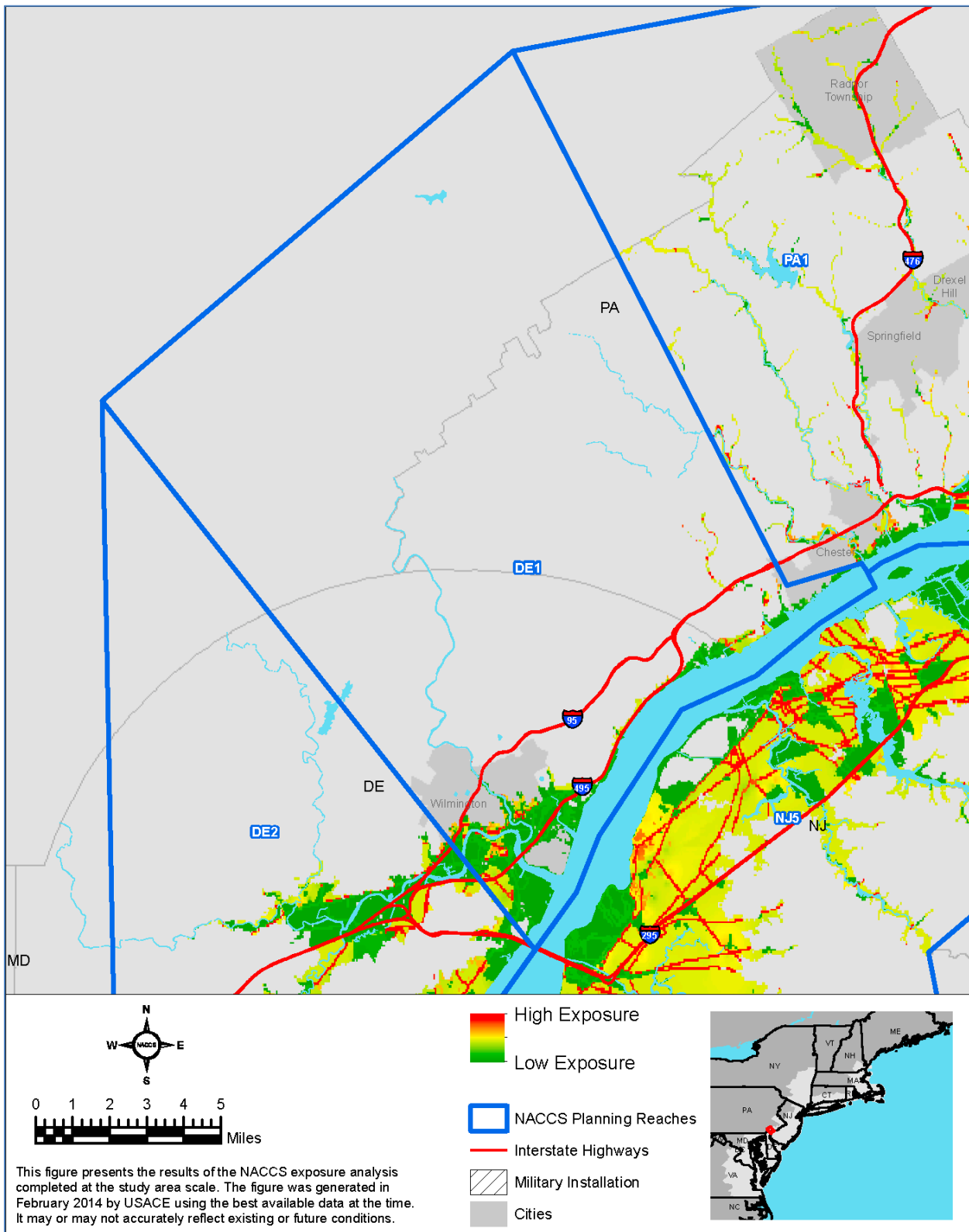


Figure 11e-23: Population and Infrastructure Exposure Index (DE1)

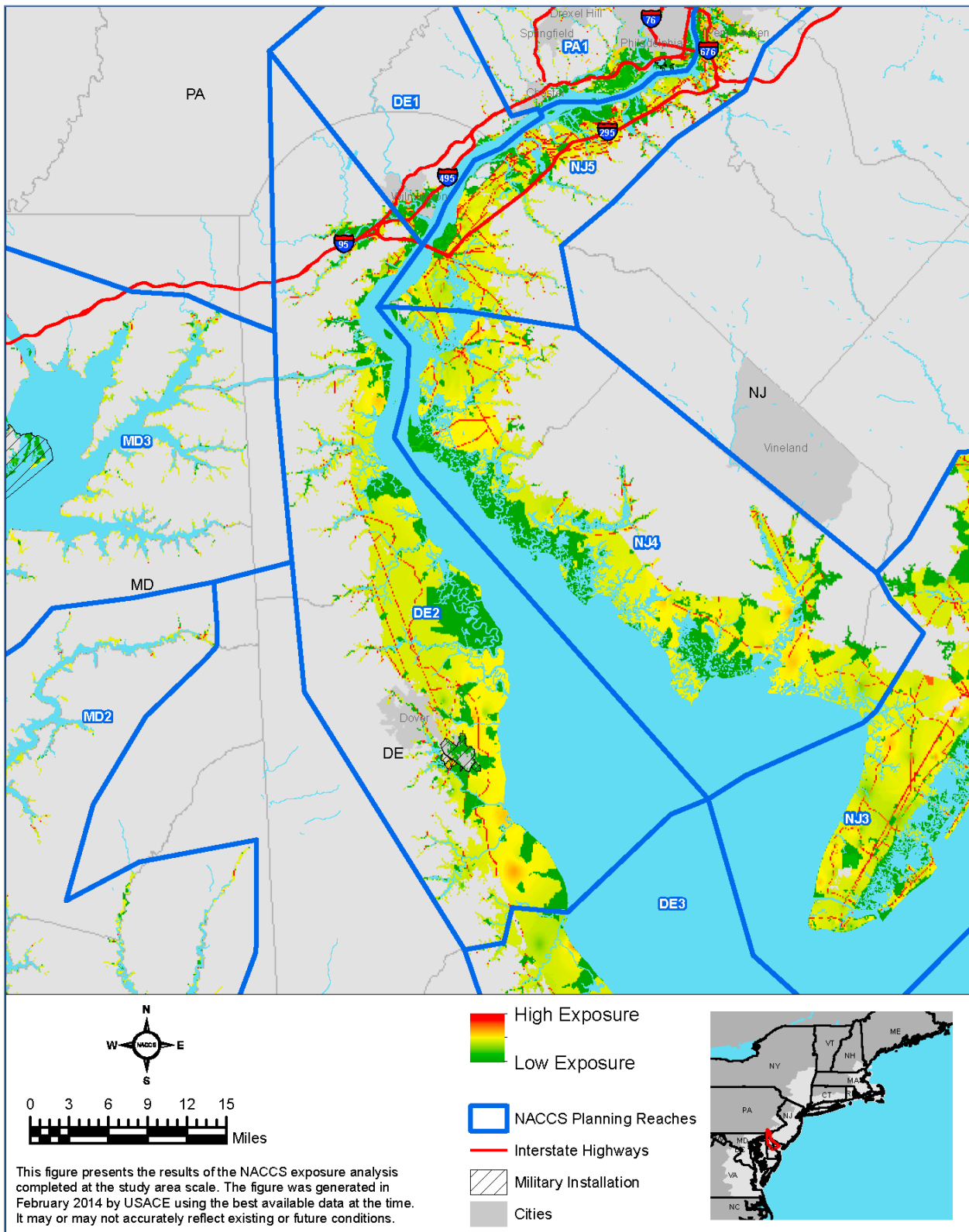


Figure Ite-24: Population and Infrastructure Exposure Index (DE2)

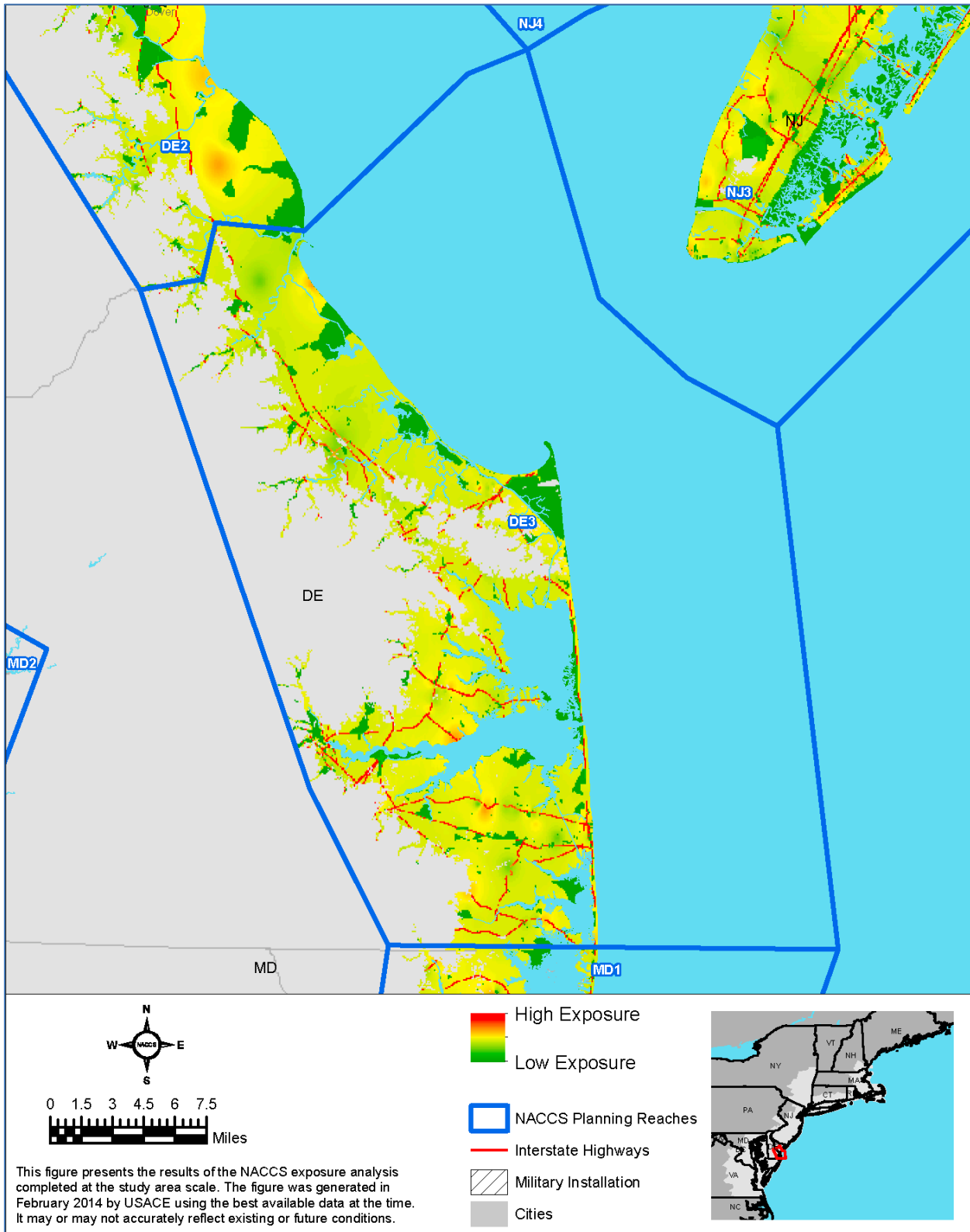


Figure 11e-25: Population and Infrastructure Exposure Index (DE3)

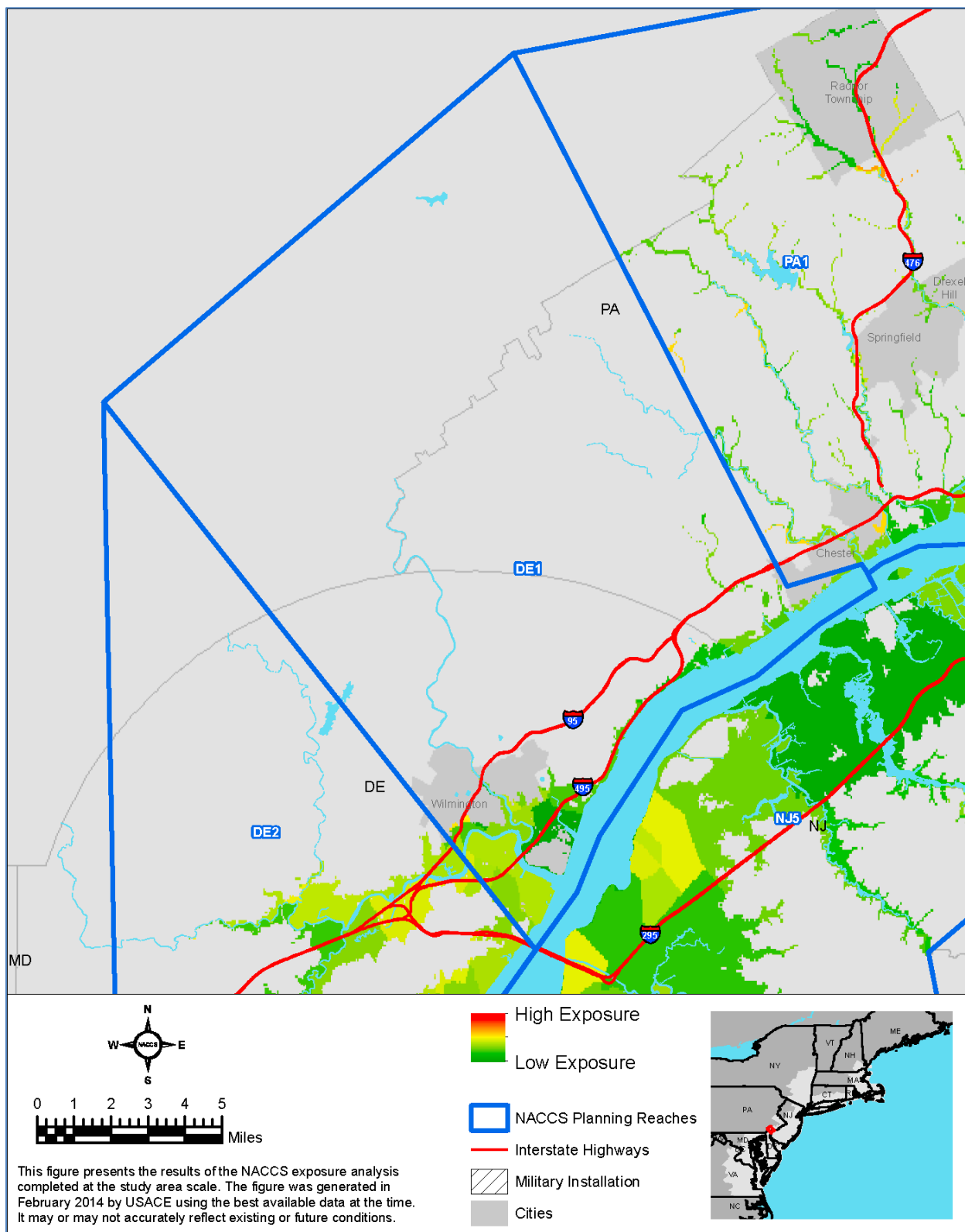


Figure Ite-26: Social Vulnerability Characterization Exposure Index (DE1)

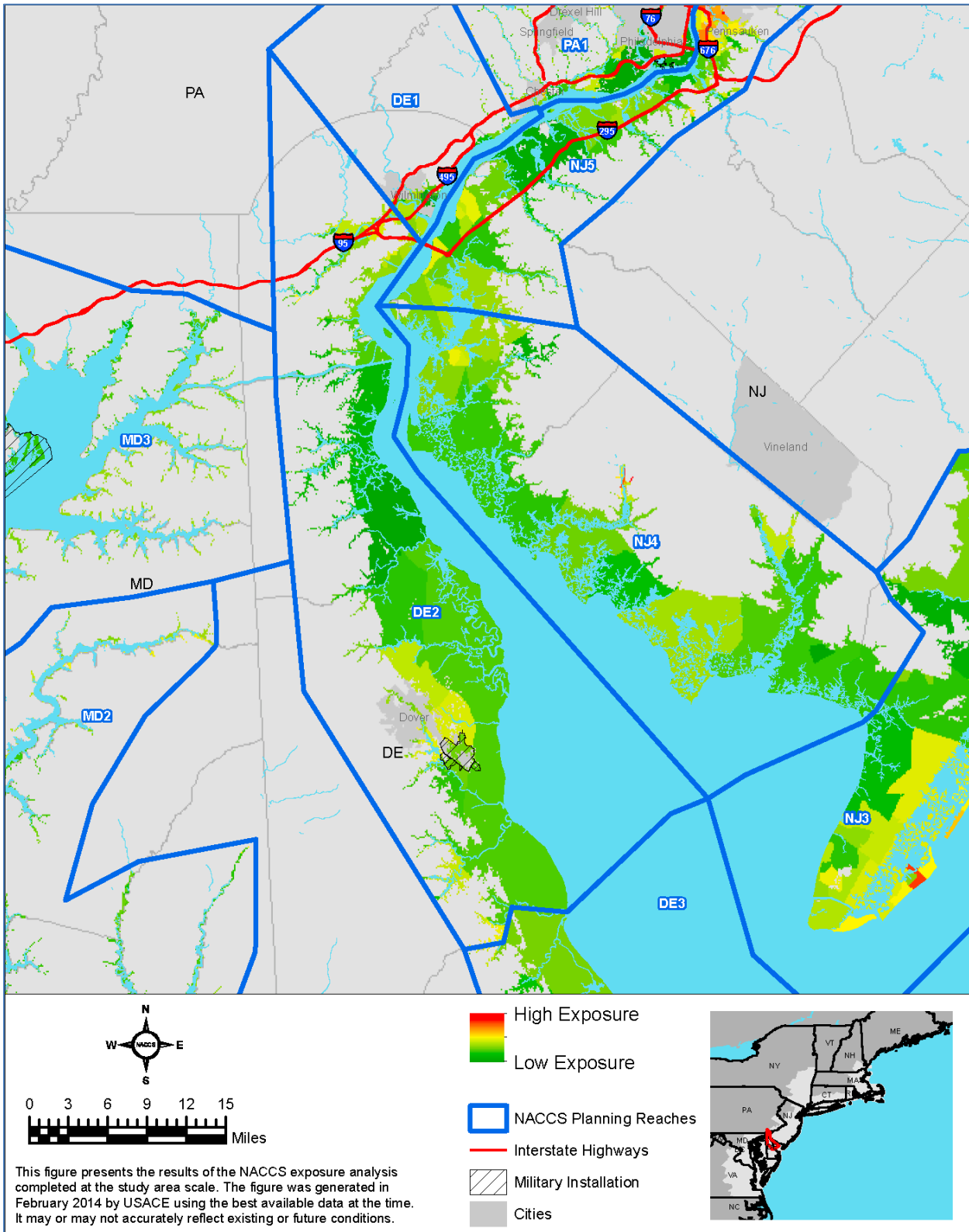


Figure Ite-27: Social Vulnerability Characterization Exposure Index (DE2)

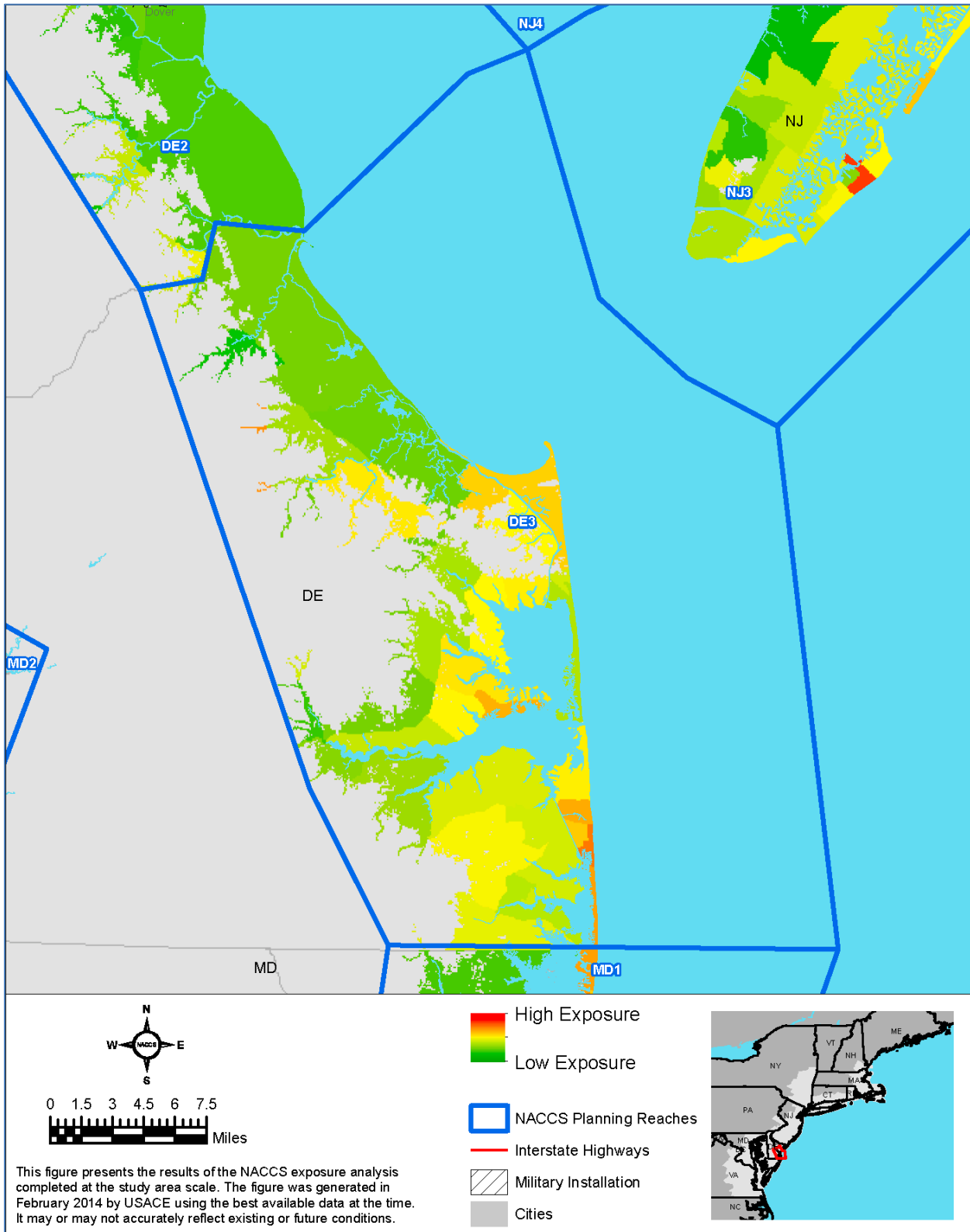


Figure 11e-28: Social Vulnerability Characterization Exposure Index (DE3)

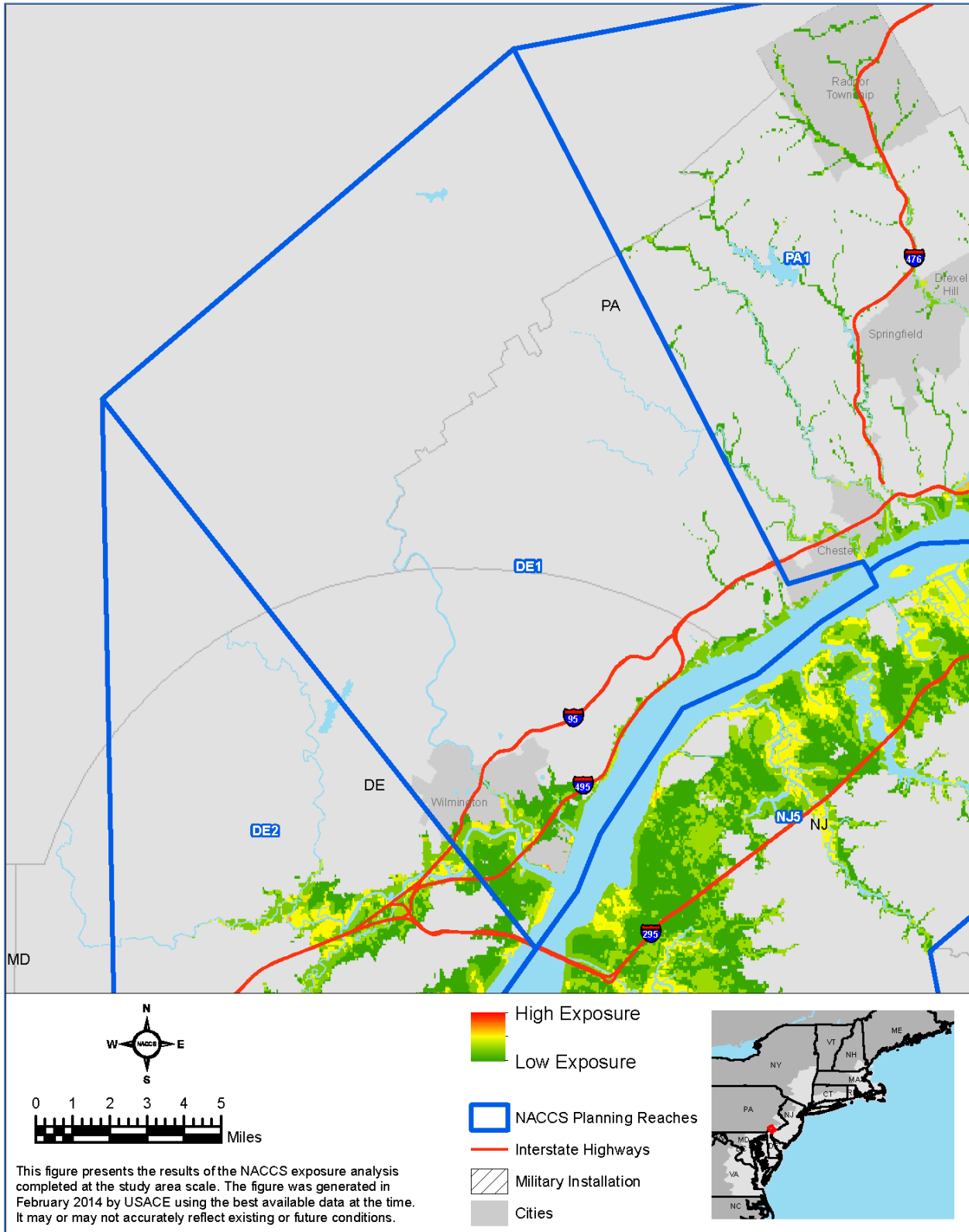


Figure Ite-29: Environmental and Cultural Resources Exposure Index (DE1)

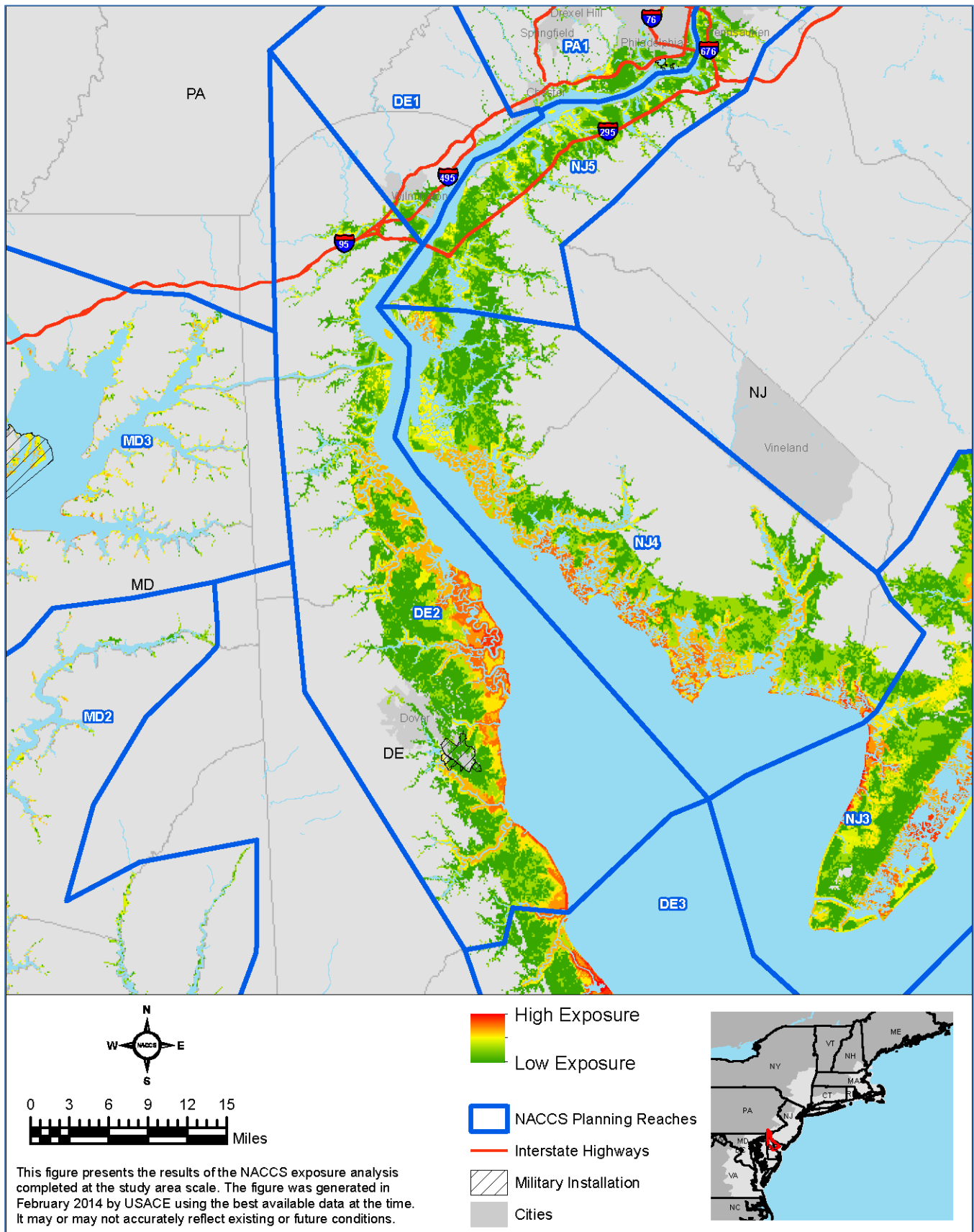


Figure 11e-30: Environmental and Cultural Resources Exposure Index (DE2)

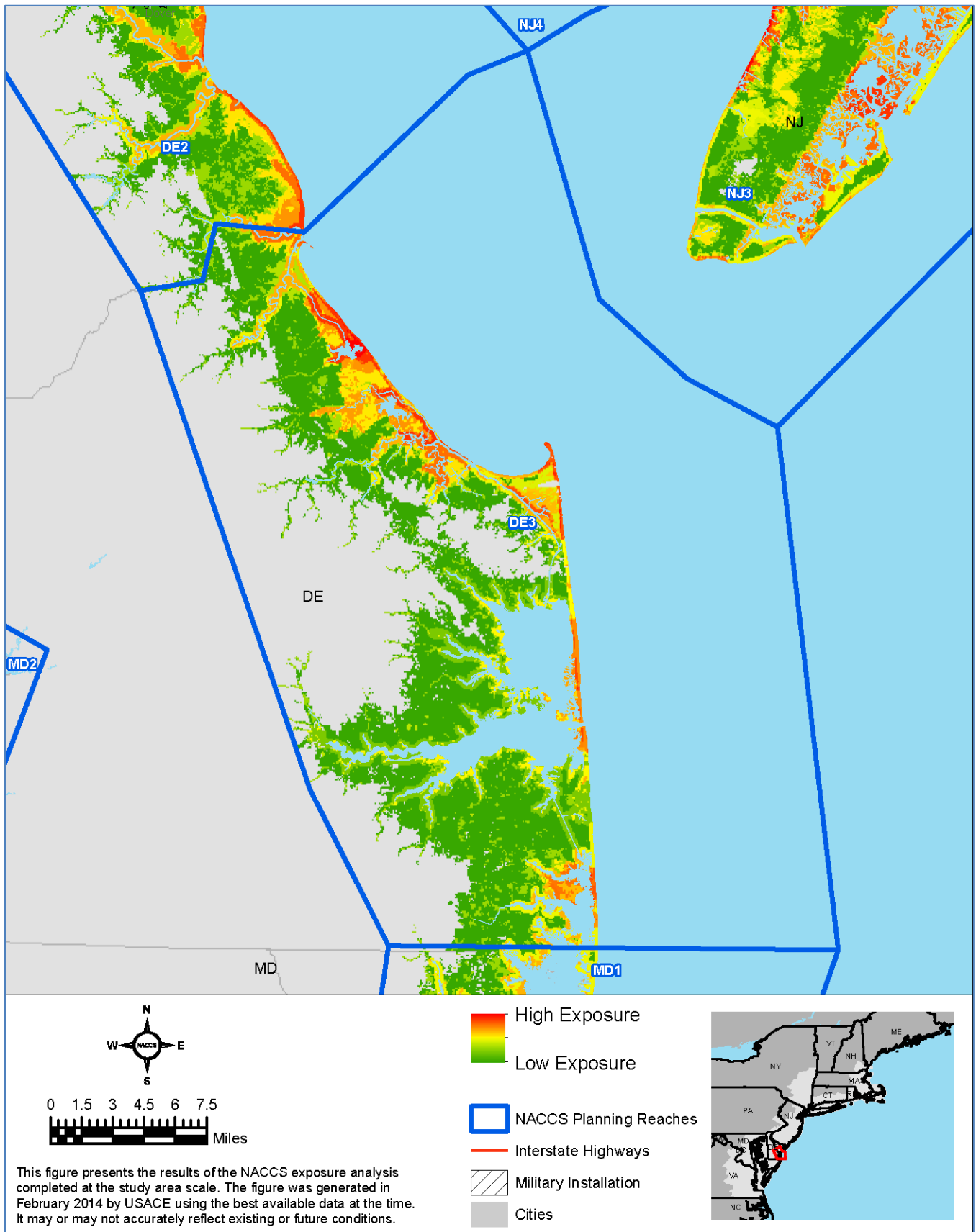


Figure 11e-31: Environmental and Cultural Resources Exposure Index (DE3)

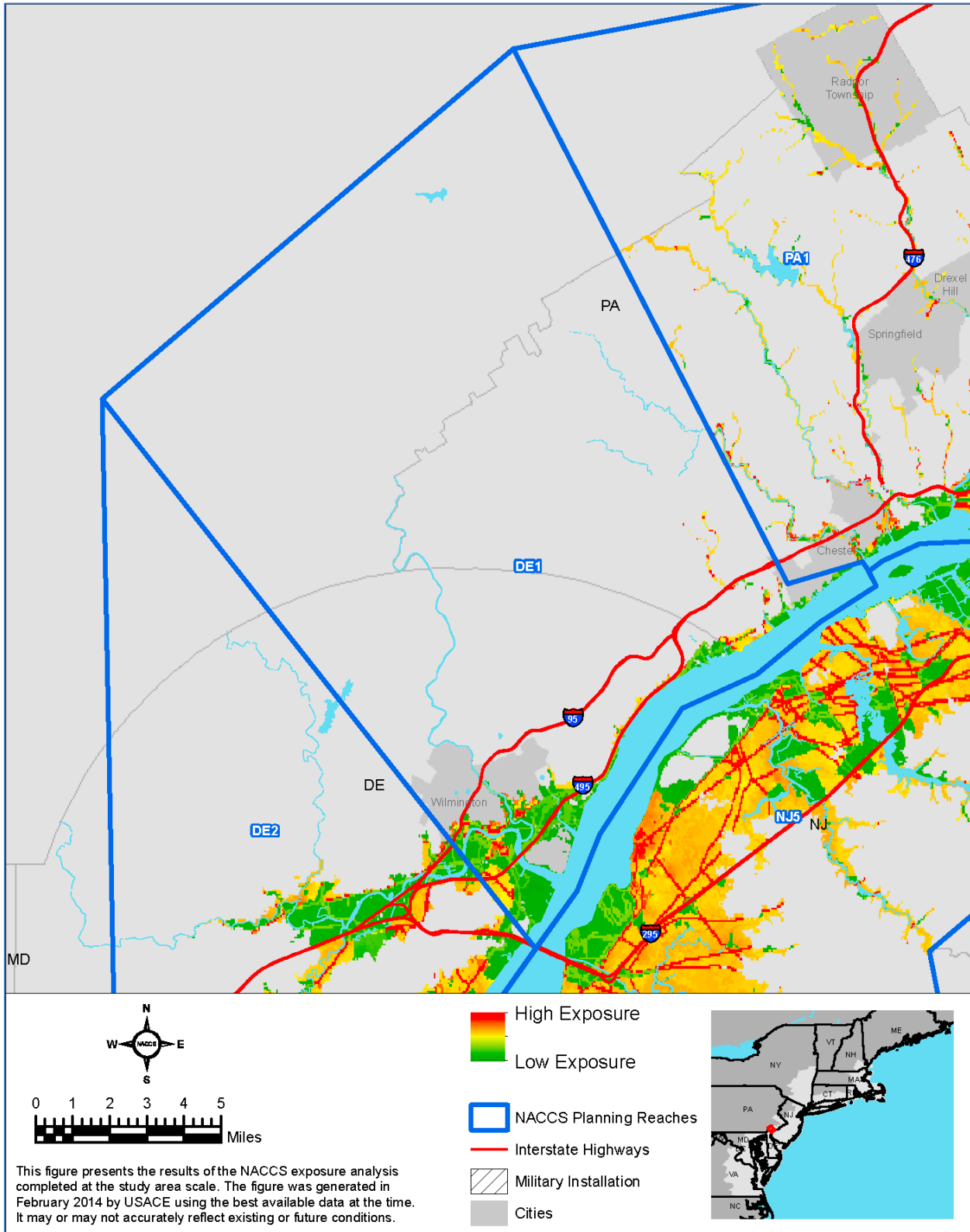


Figure 11e-32: Composite Exposure Index (DE1)



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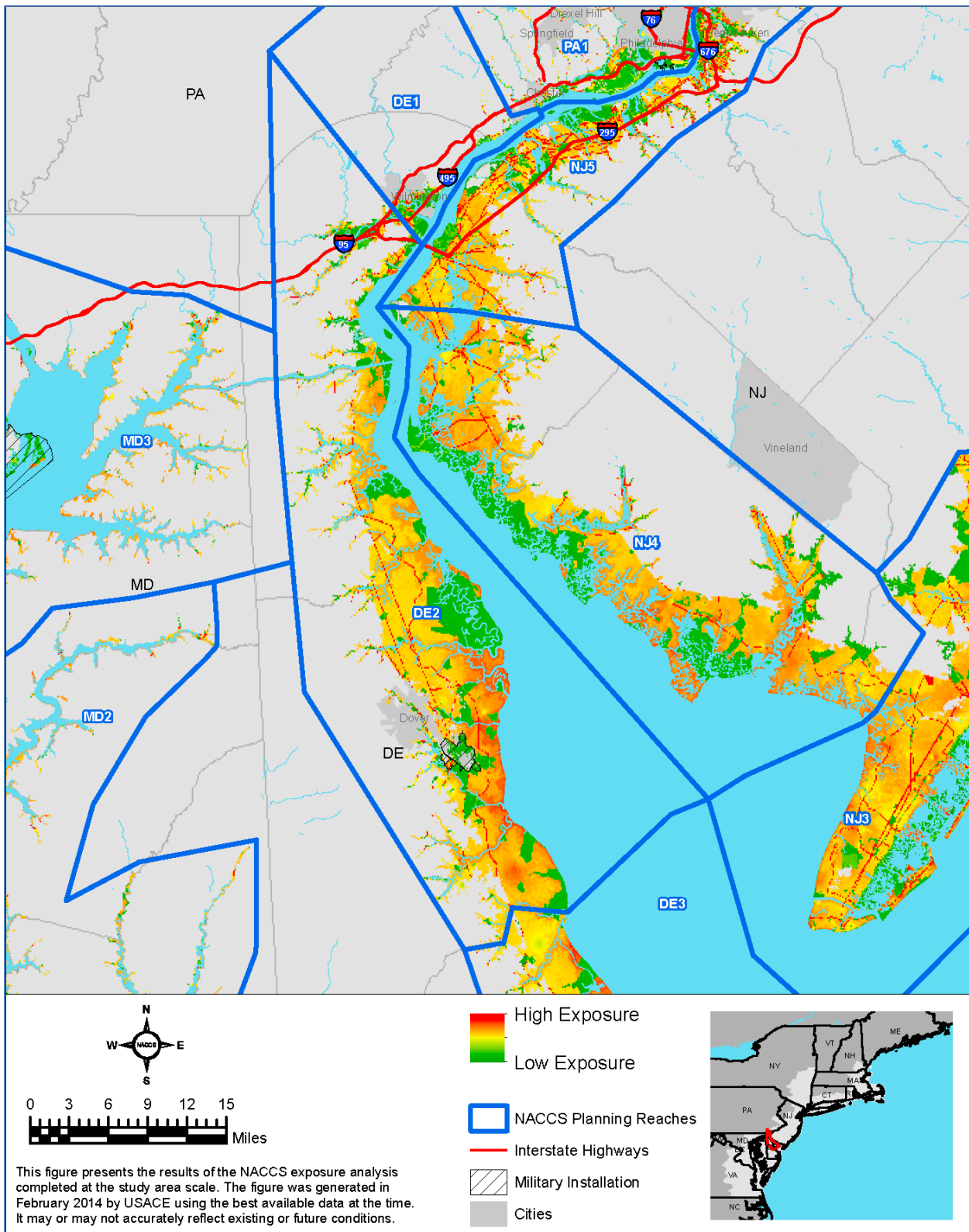


Figure Ite-33: Composite Exposure Index (DE2)

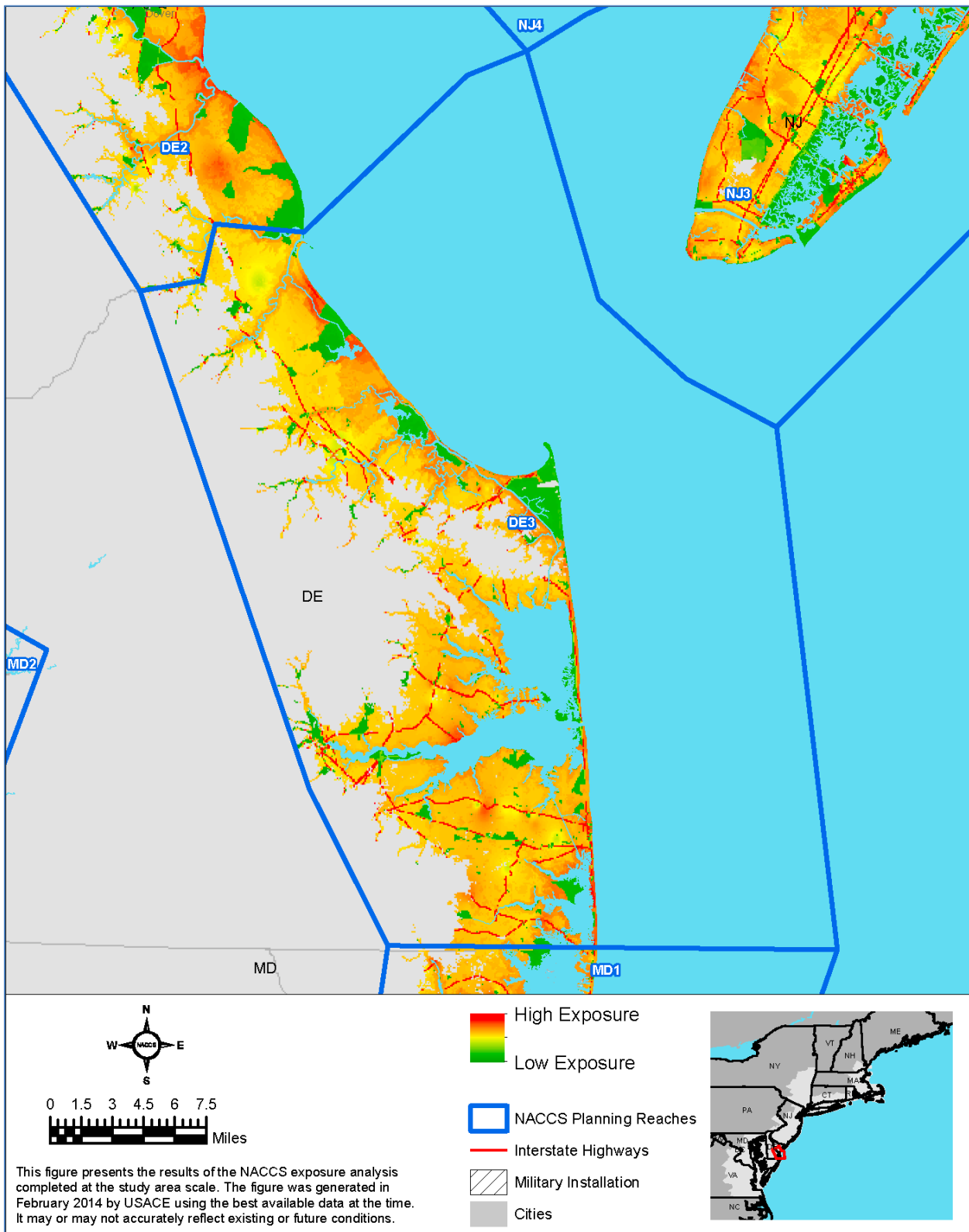


Figure I1e-34: Composite Exposure Index (DE3)

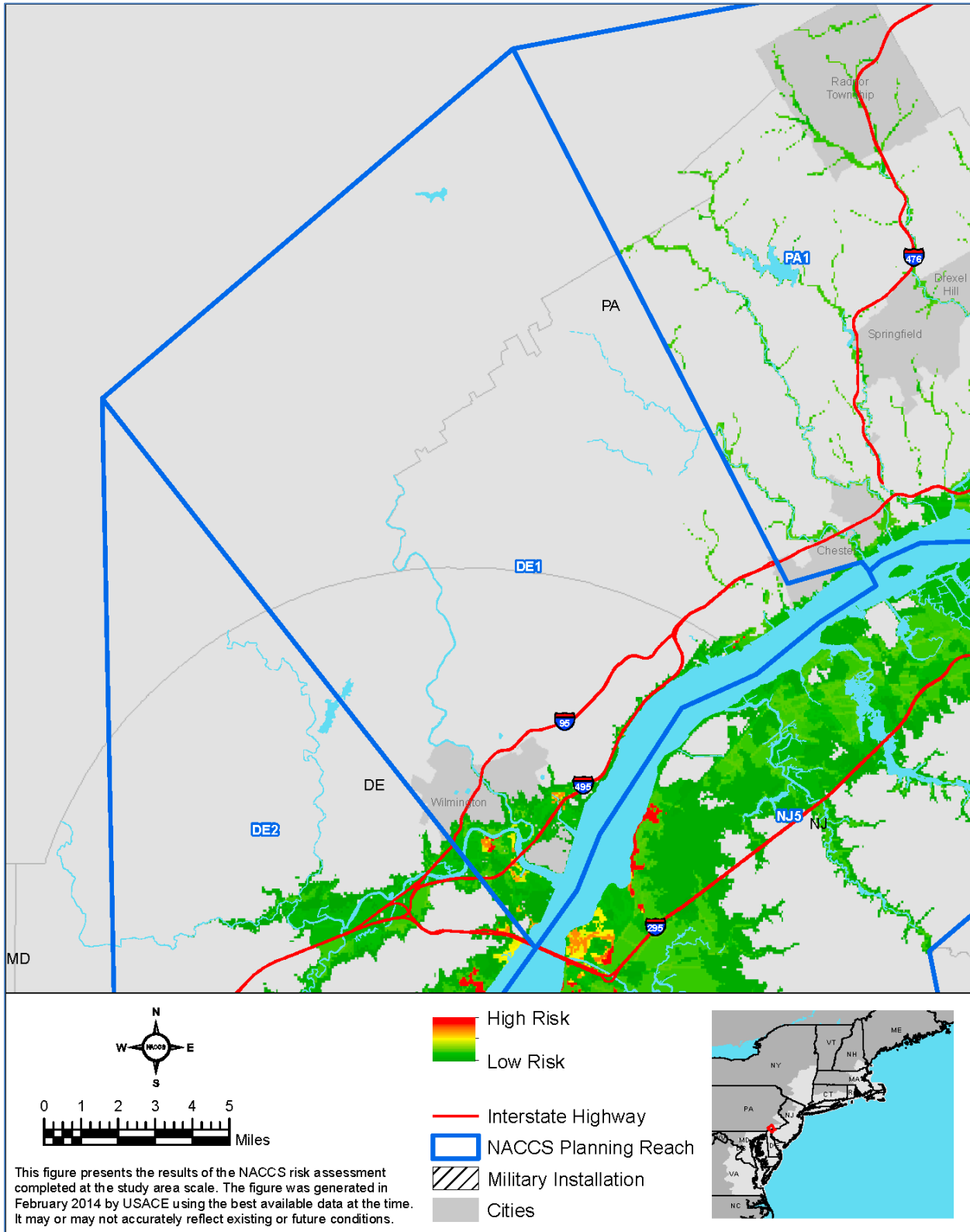


Figure Ite-35: Risk Assessment (DE1)

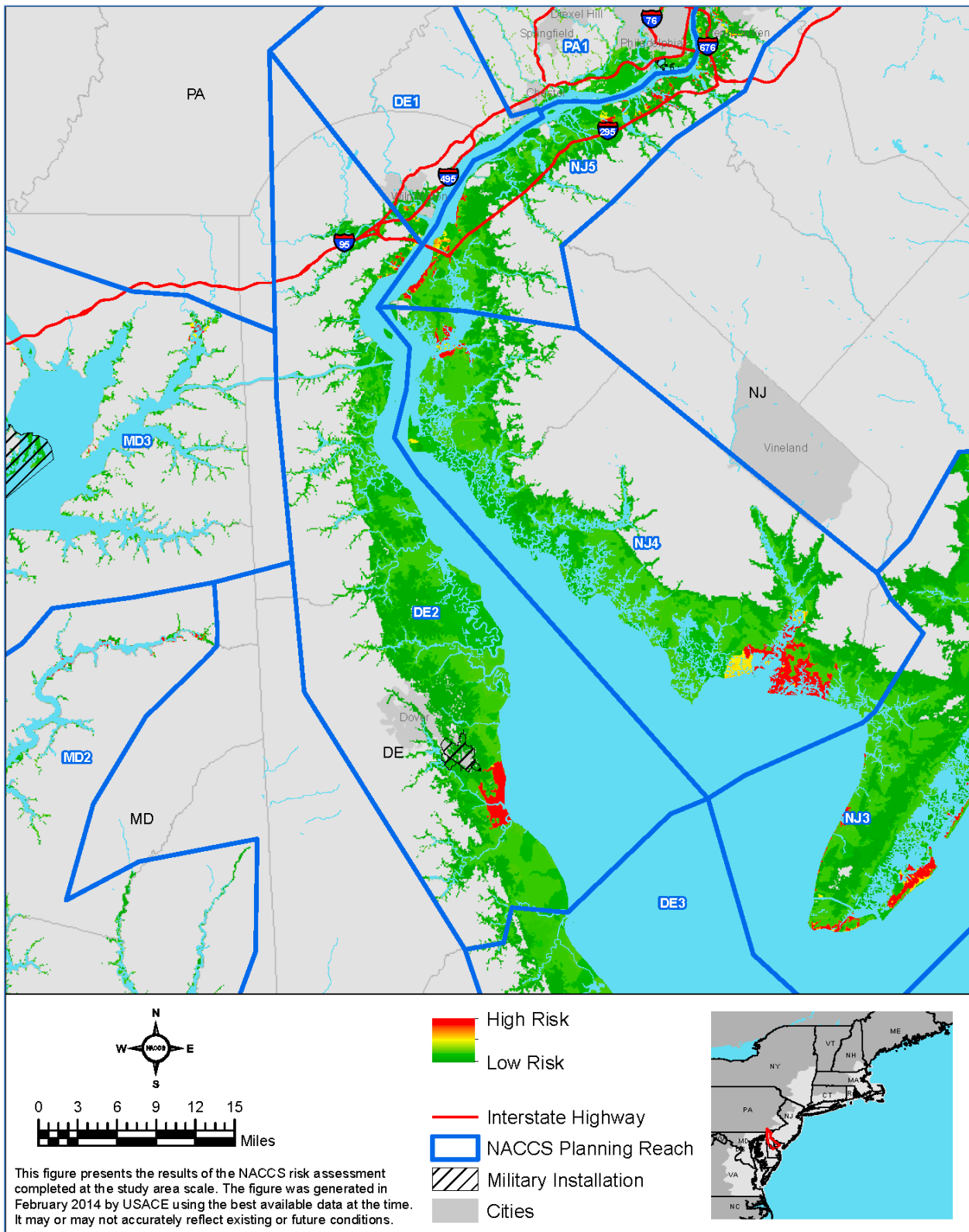


Figure Ite-36: Risk Assessment (DE2)

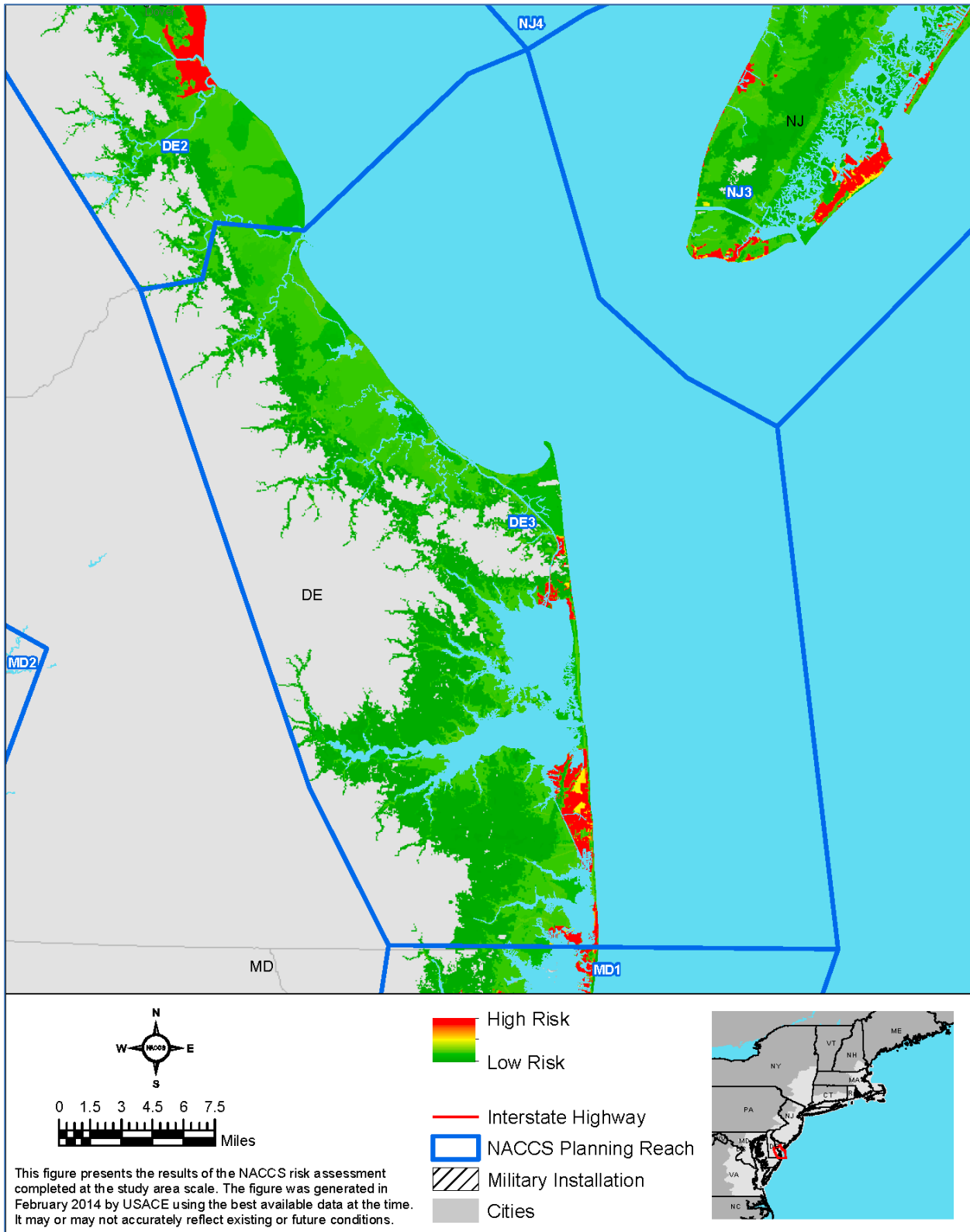


Figure I1e-37: Risk Assessment (DE3)

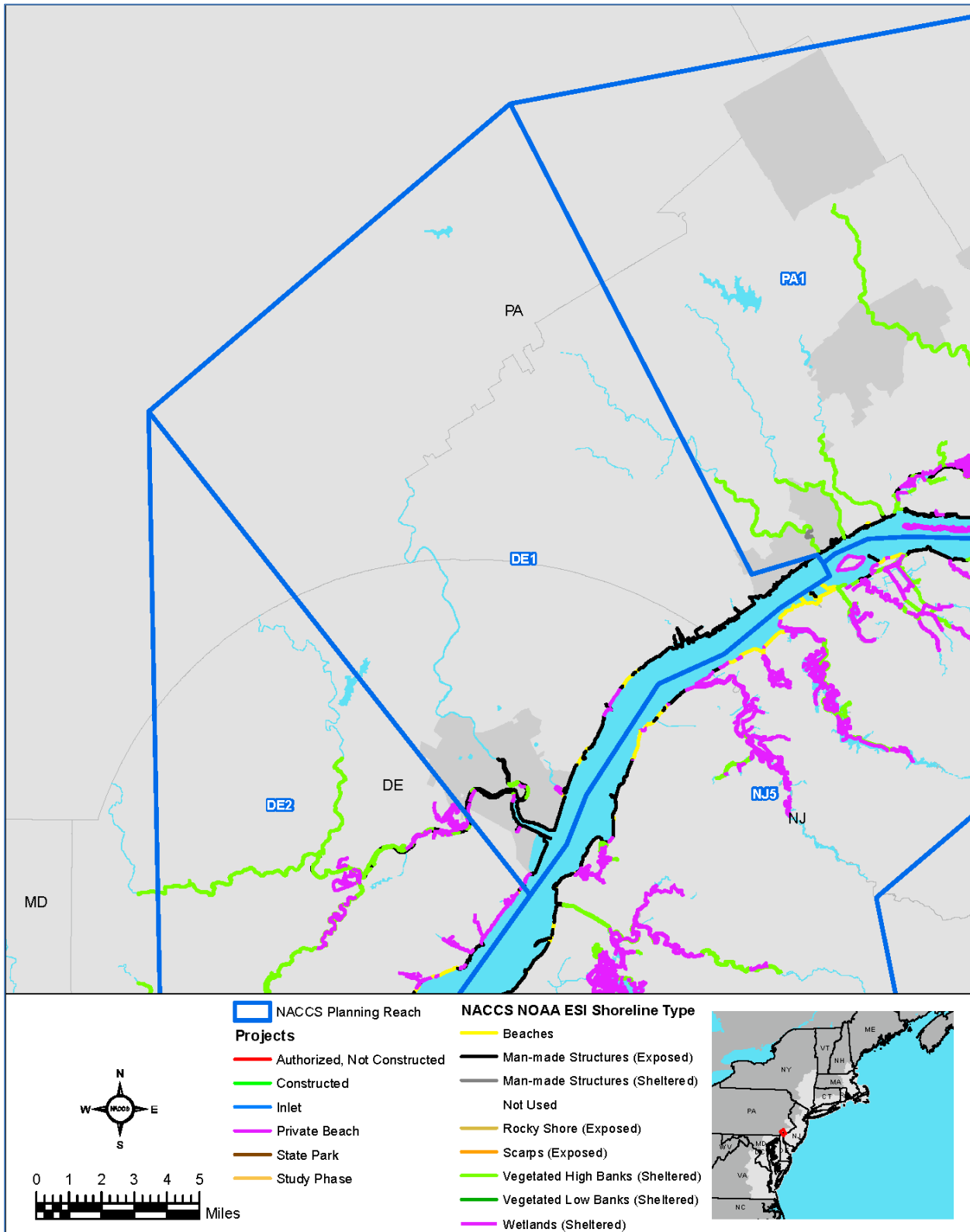


Figure Ite-38: Shoreline Types (DE1)

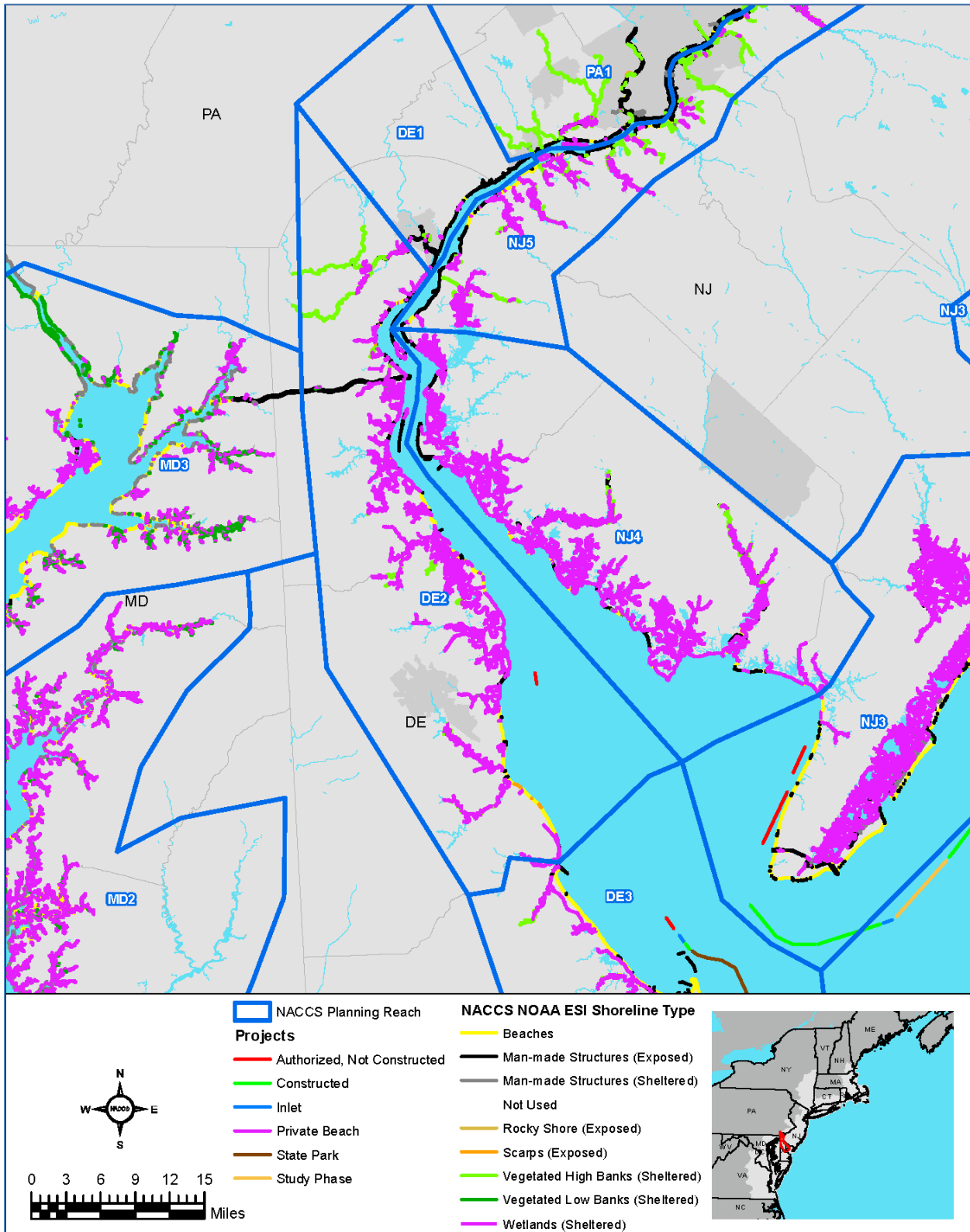


Figure 11e-39: Shoreline Types (DE2)

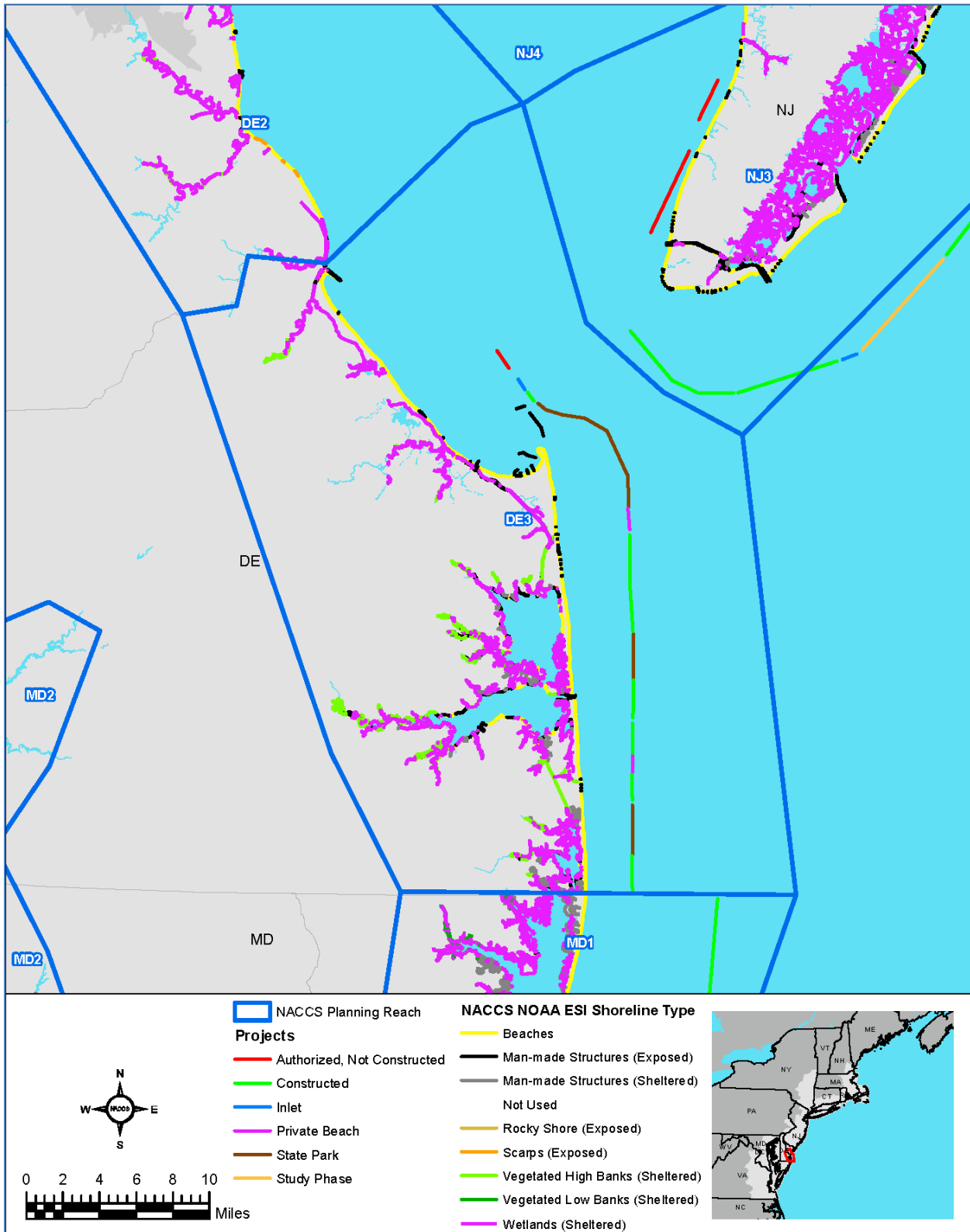


Figure 11e-40: Shoreline Types (DE3)

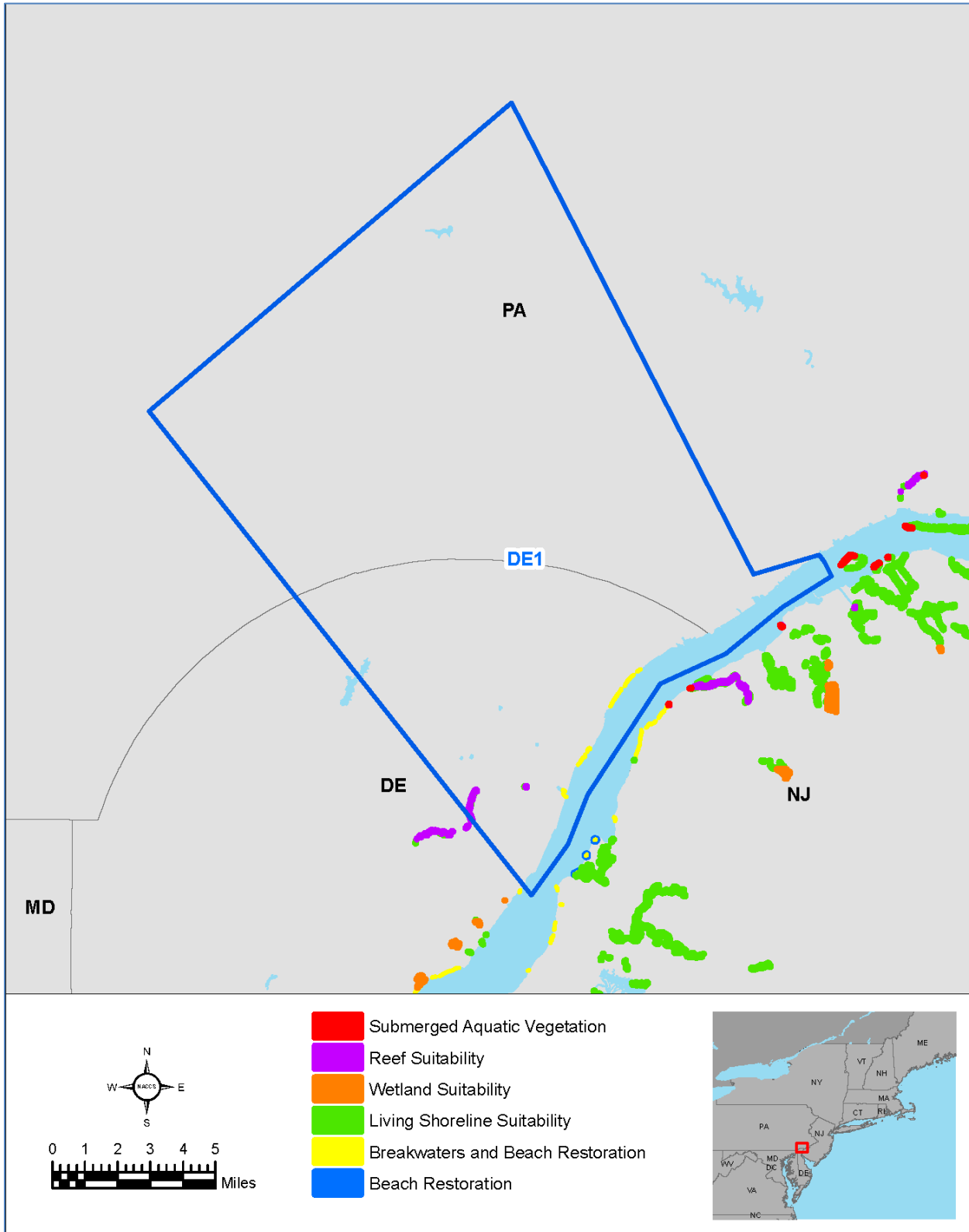


Figure IIe-41: NNBf Measures Screening (DE1)

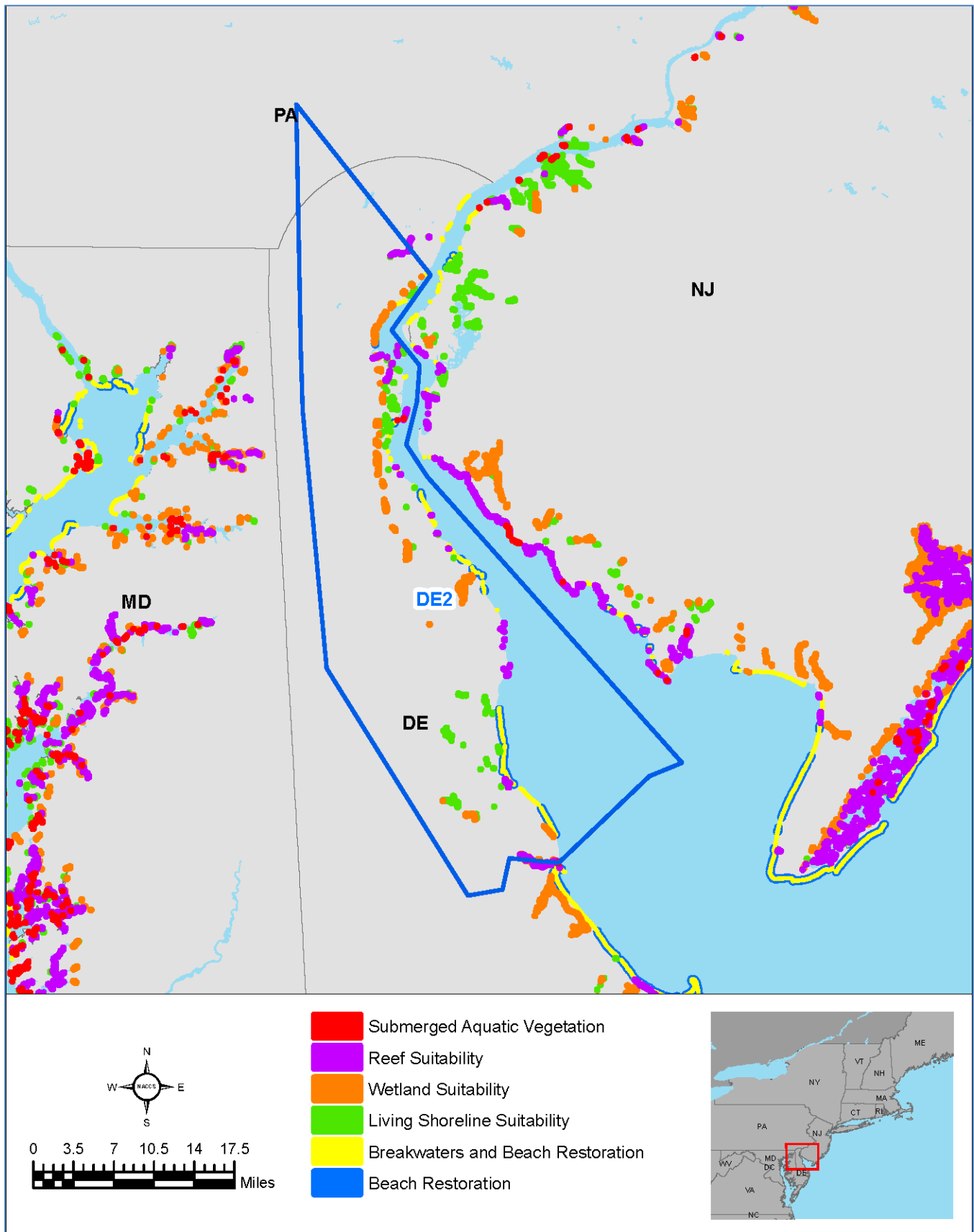


Figure IIe-42: NNBf Measures Screening (DE2)

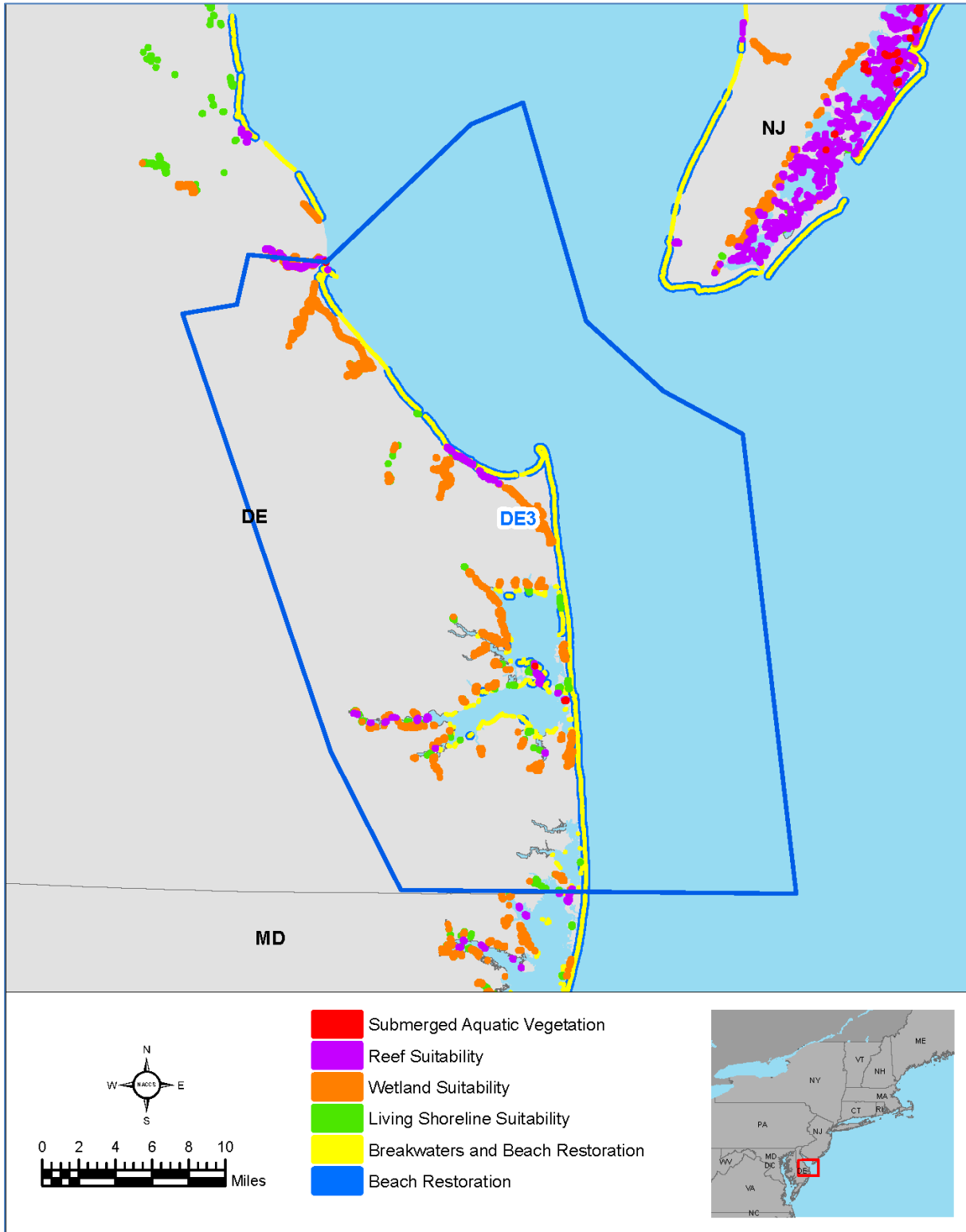


Figure Ite-43: NNBF Measures Screening (DE3)



f. State of Maryland



North Atlantic Coast Comprehensive Study (NACCS) United States Army Corps of Engineers

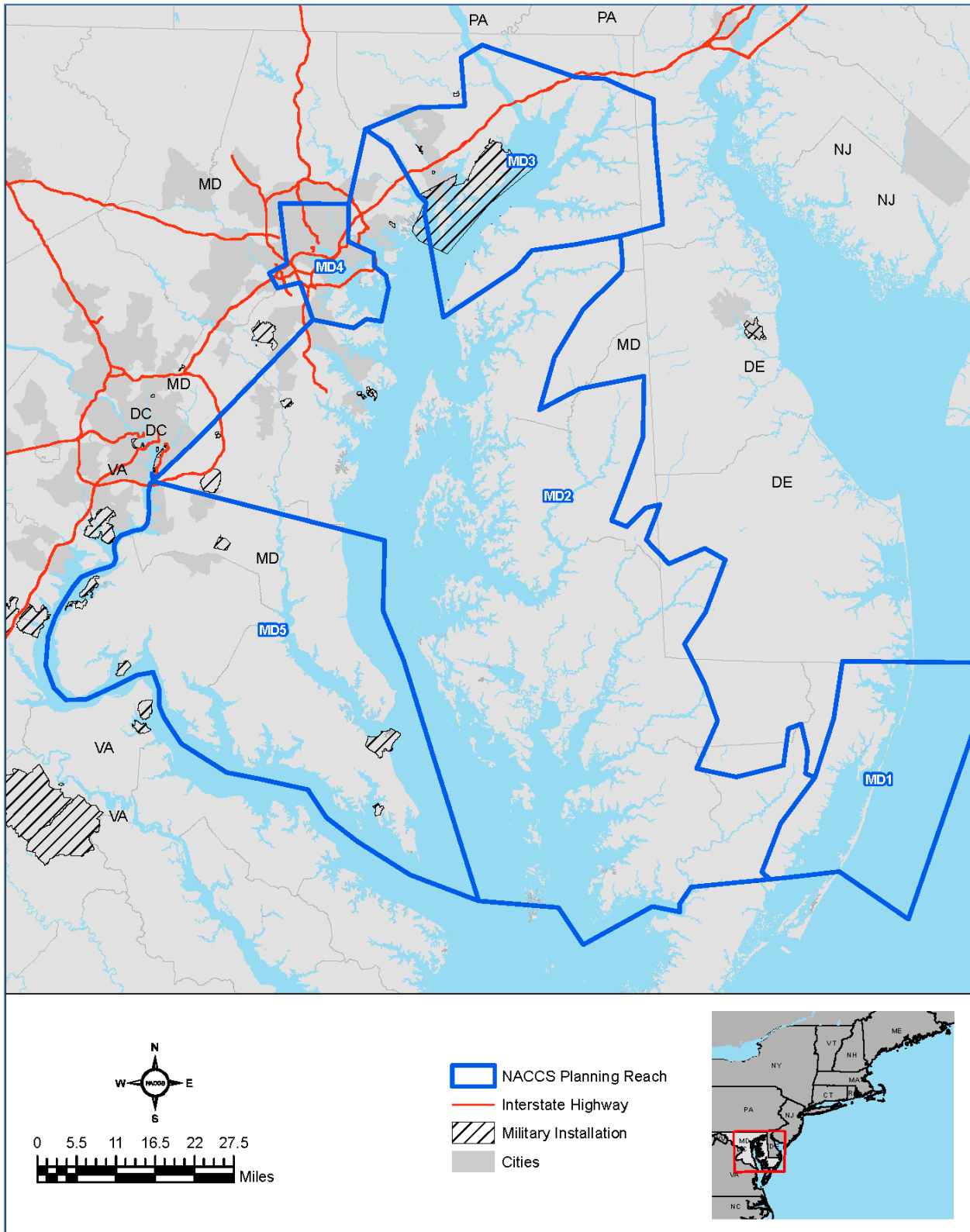


Figure If-1: Planning Reaches for the State of Maryland

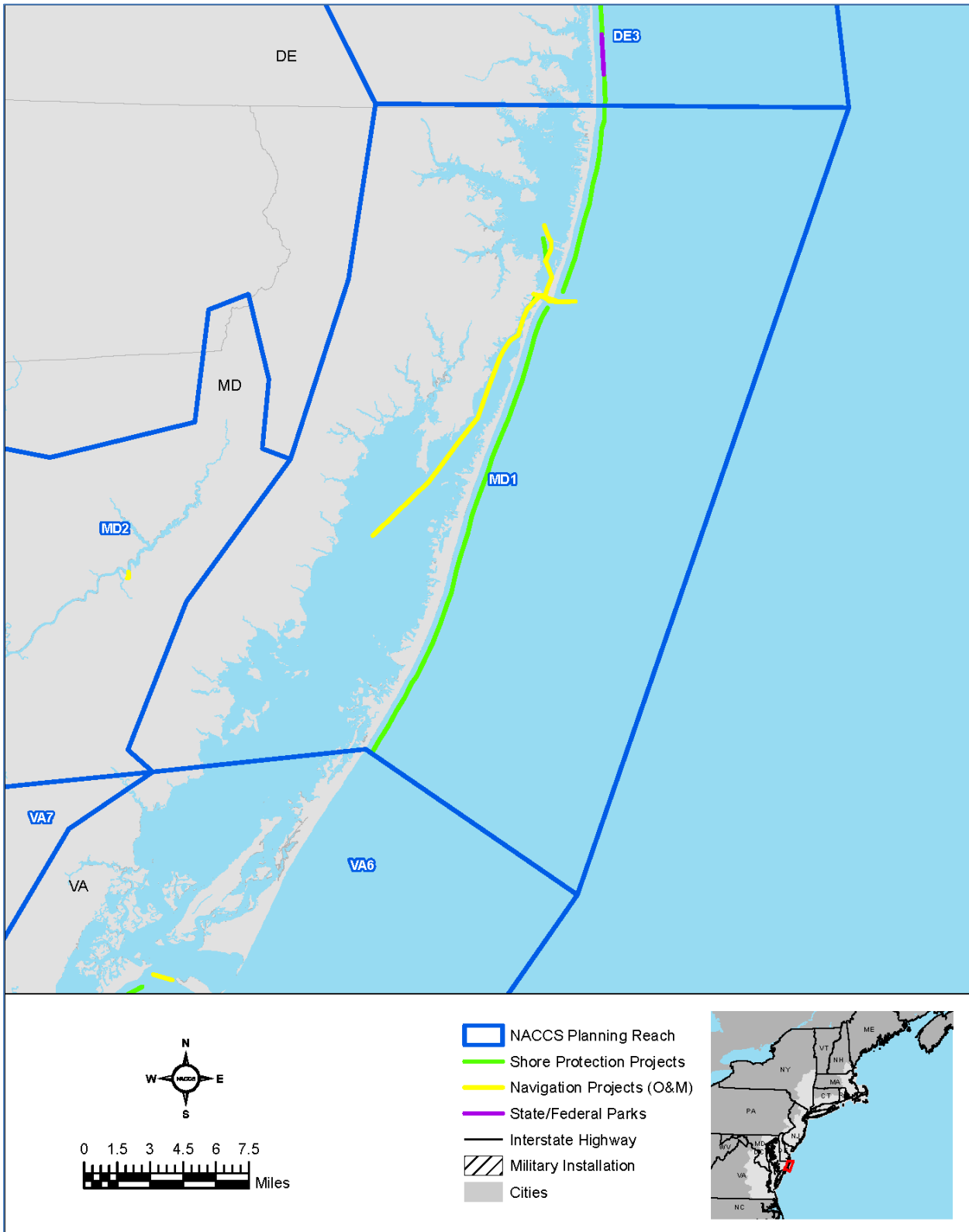


Figure If-2: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MD1)



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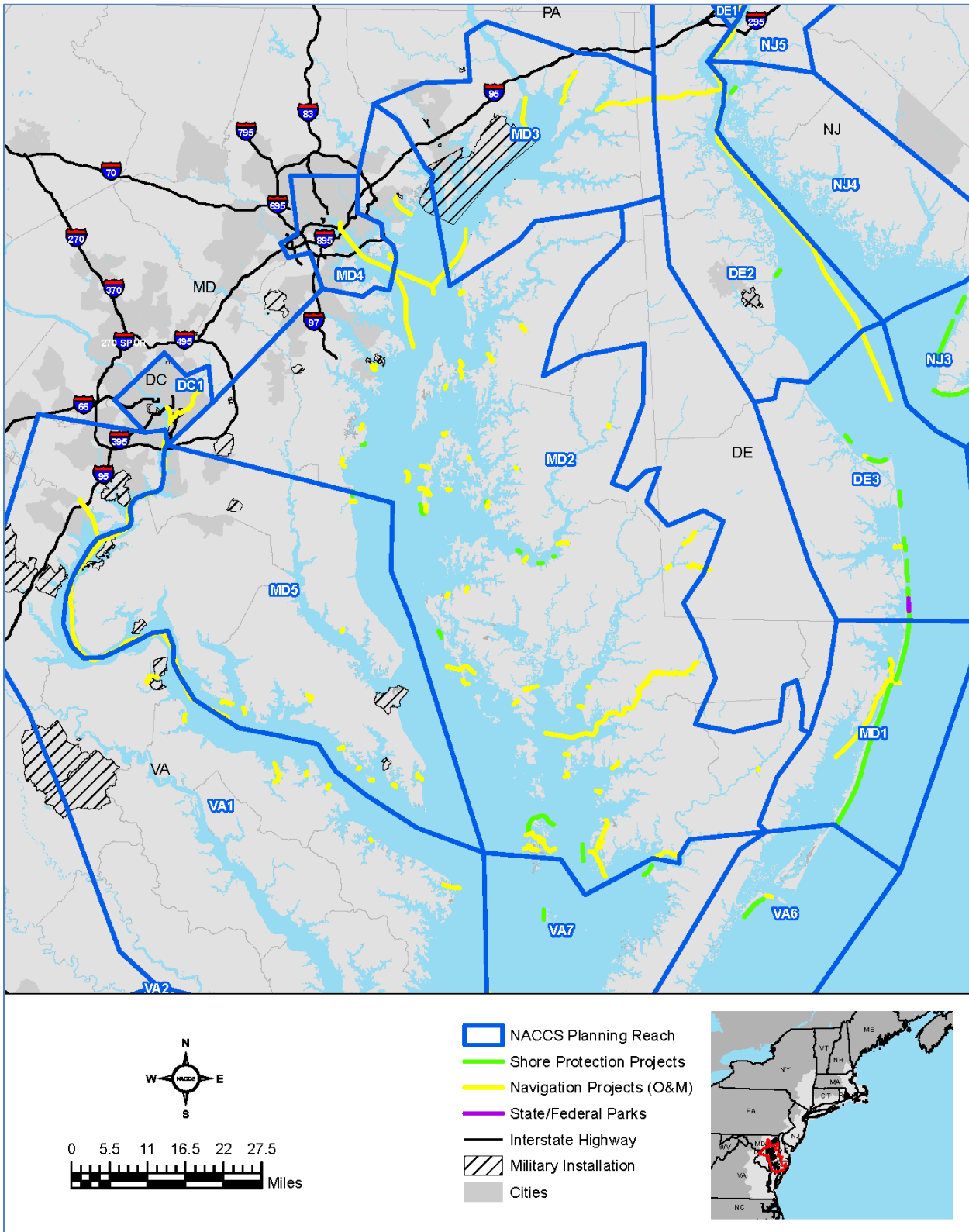


Figure 1lf-3: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MD2)

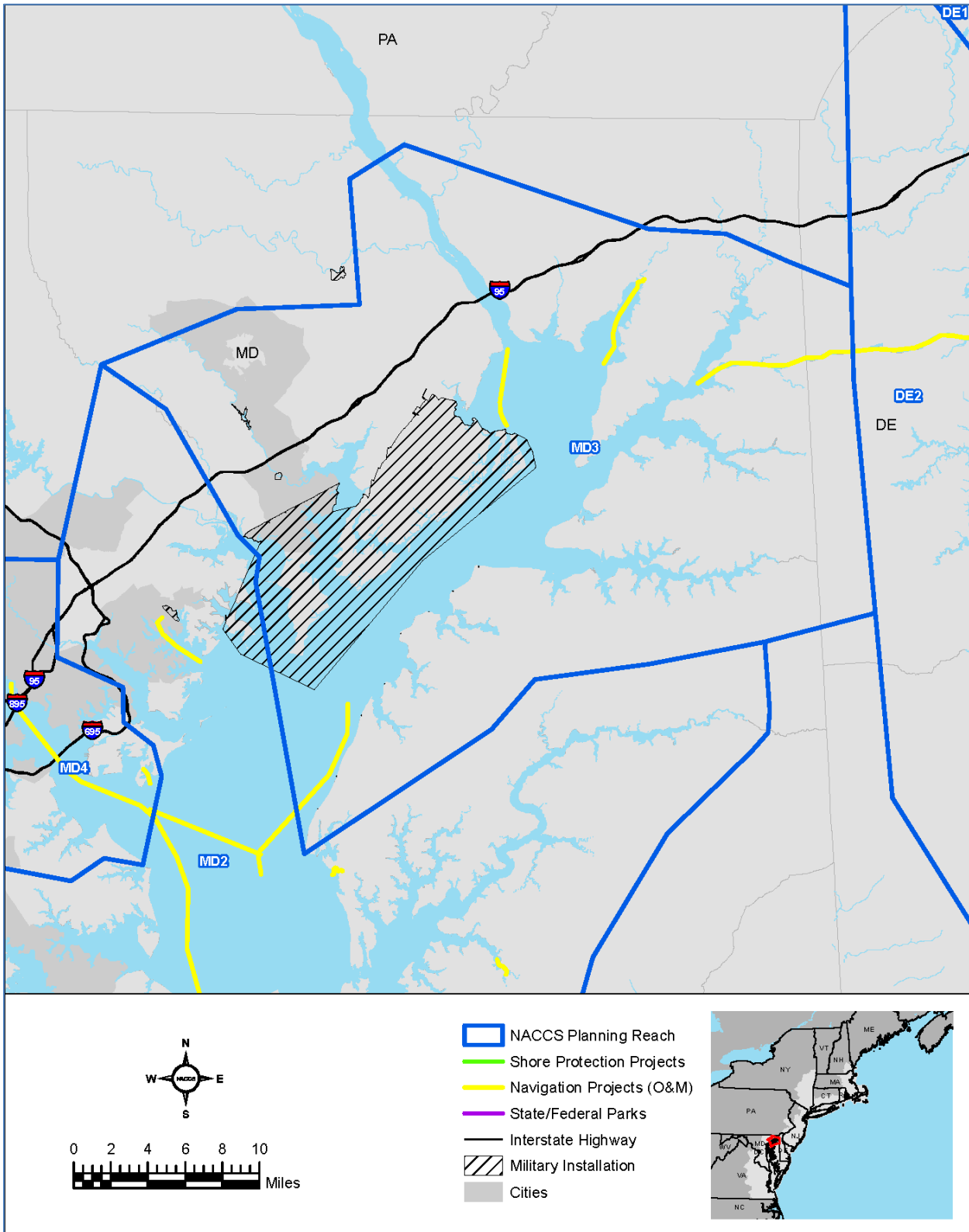


Figure 11f-4: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MD3)

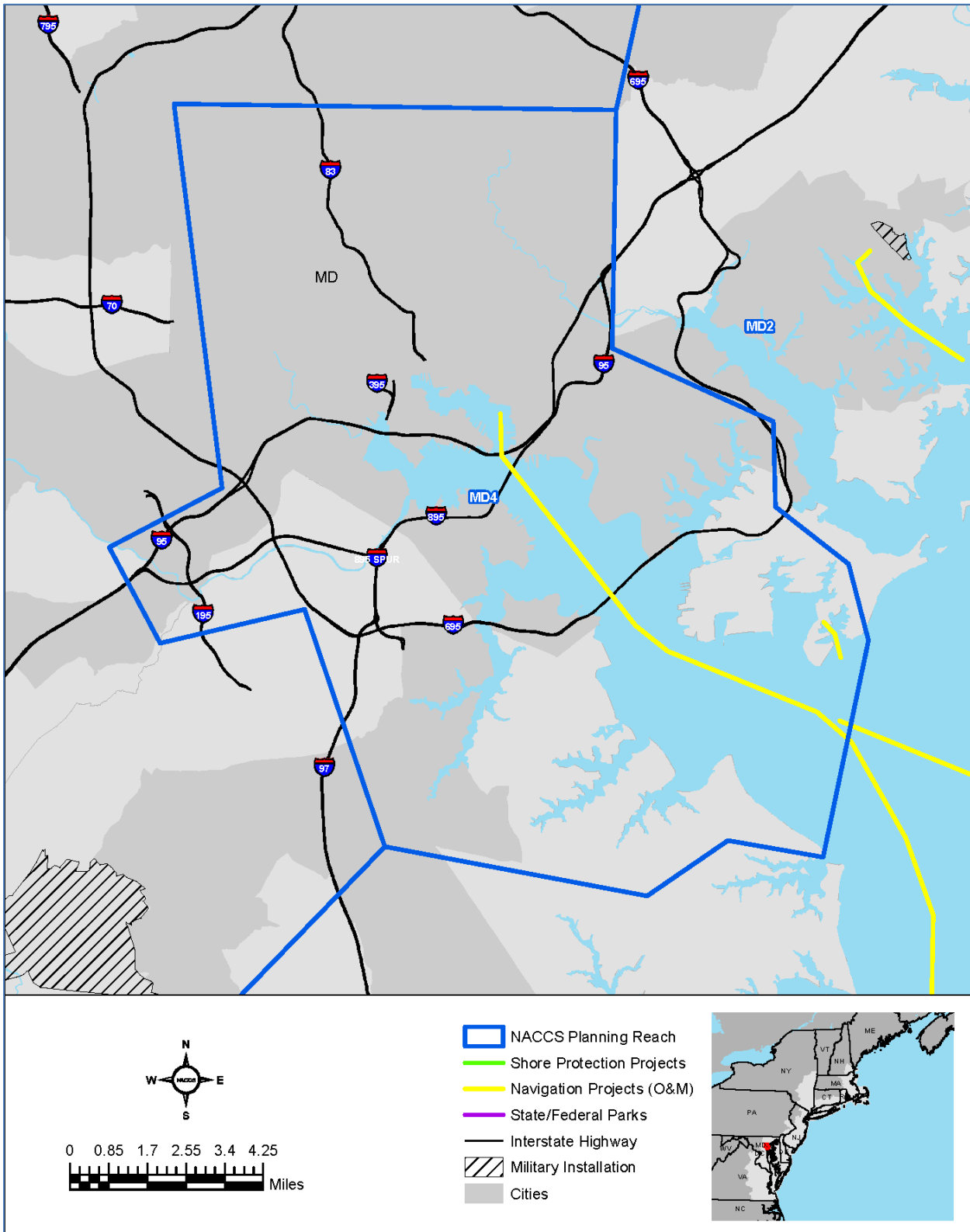


Figure 1lf-5: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MD4)

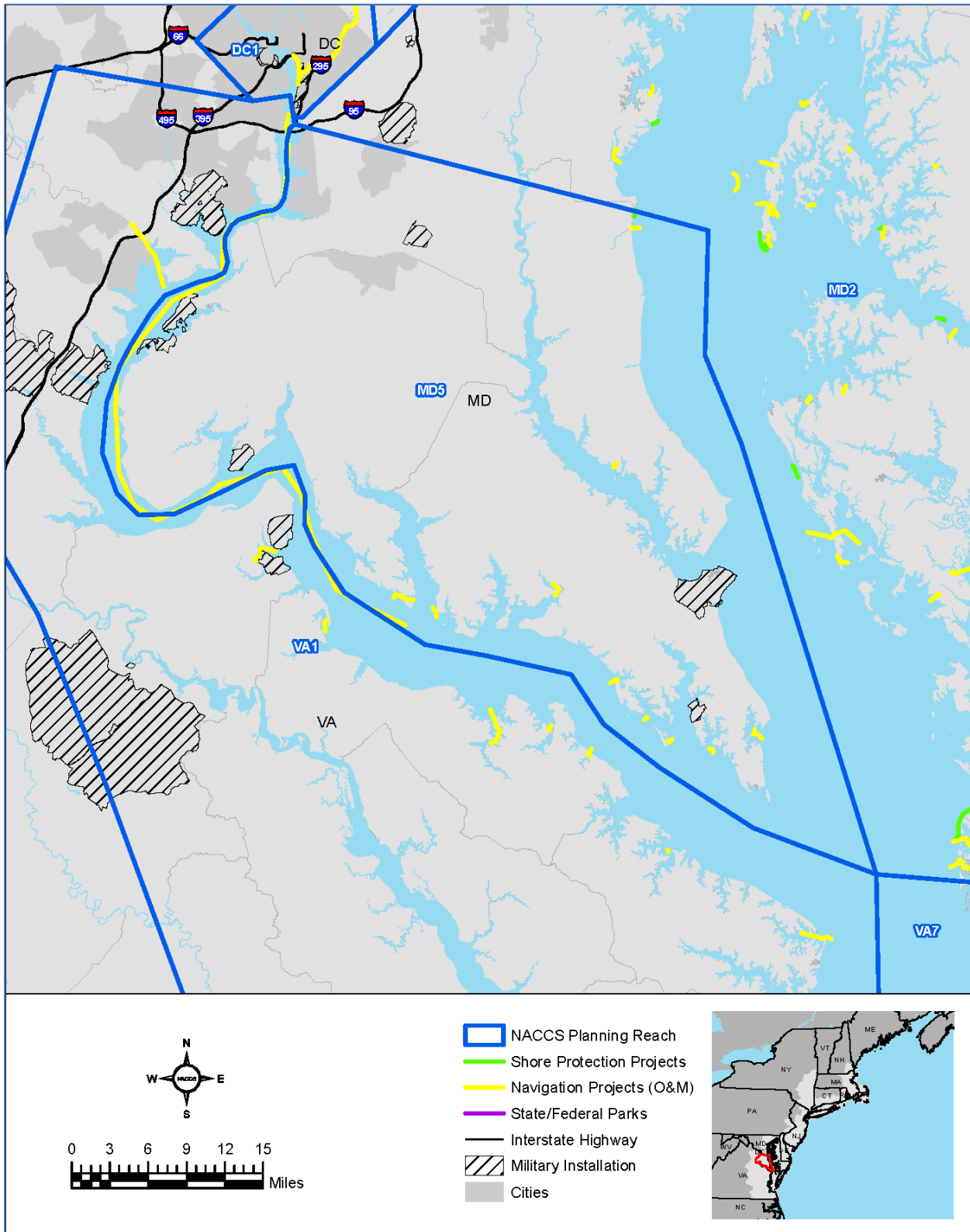


Figure 1lf-6: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (MD5)

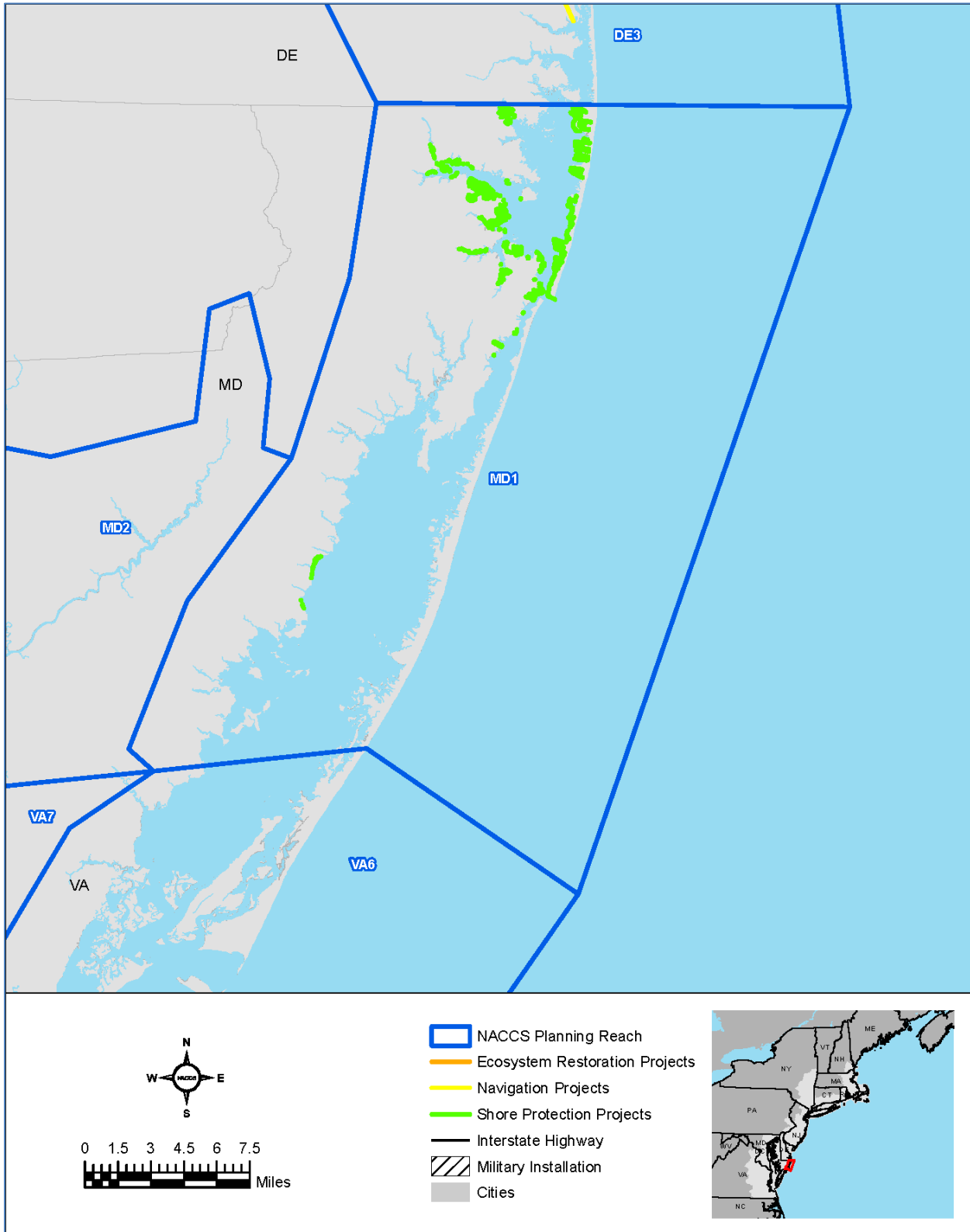


Figure IIf-7: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MD1)

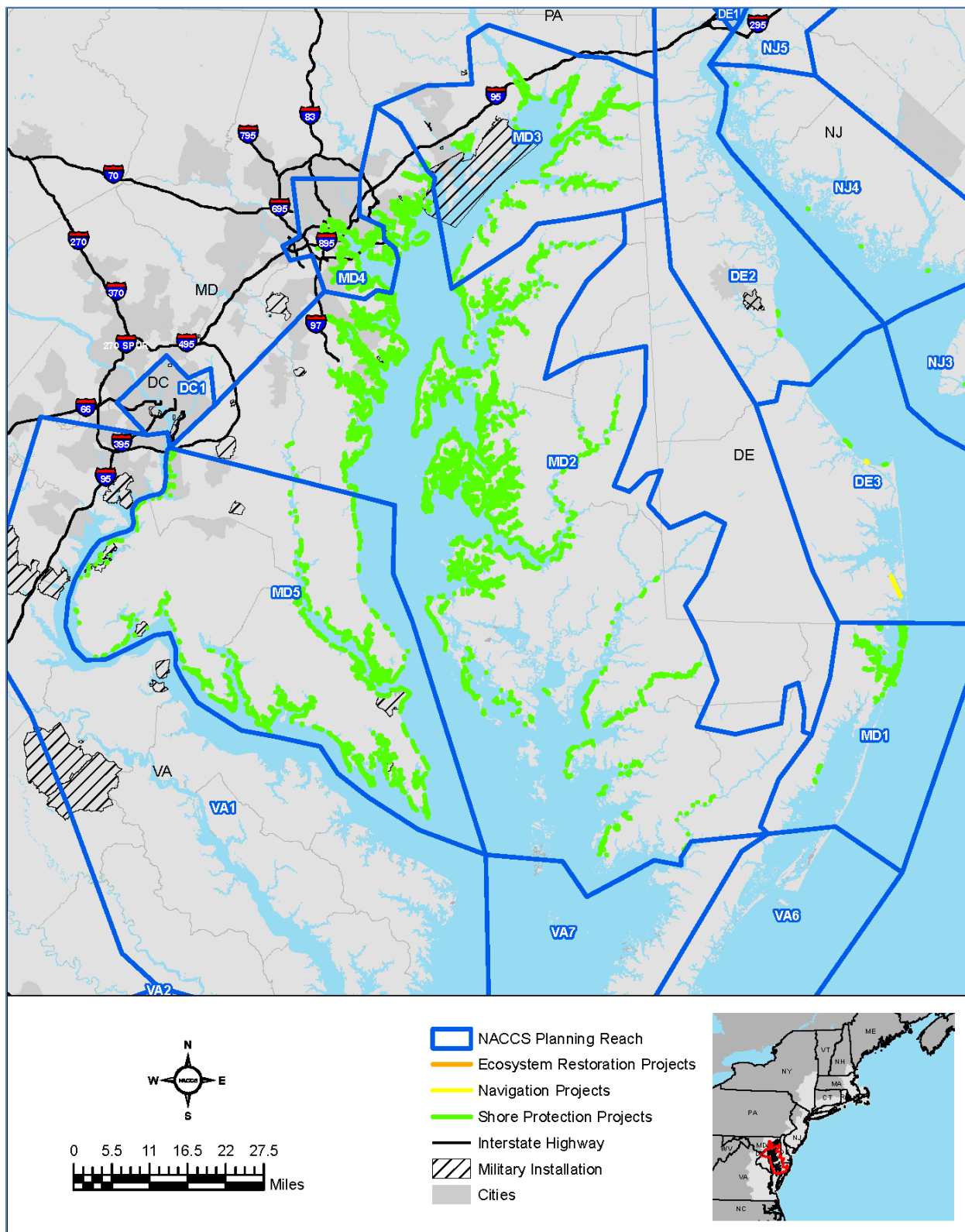


Figure IIf-8: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MD2)

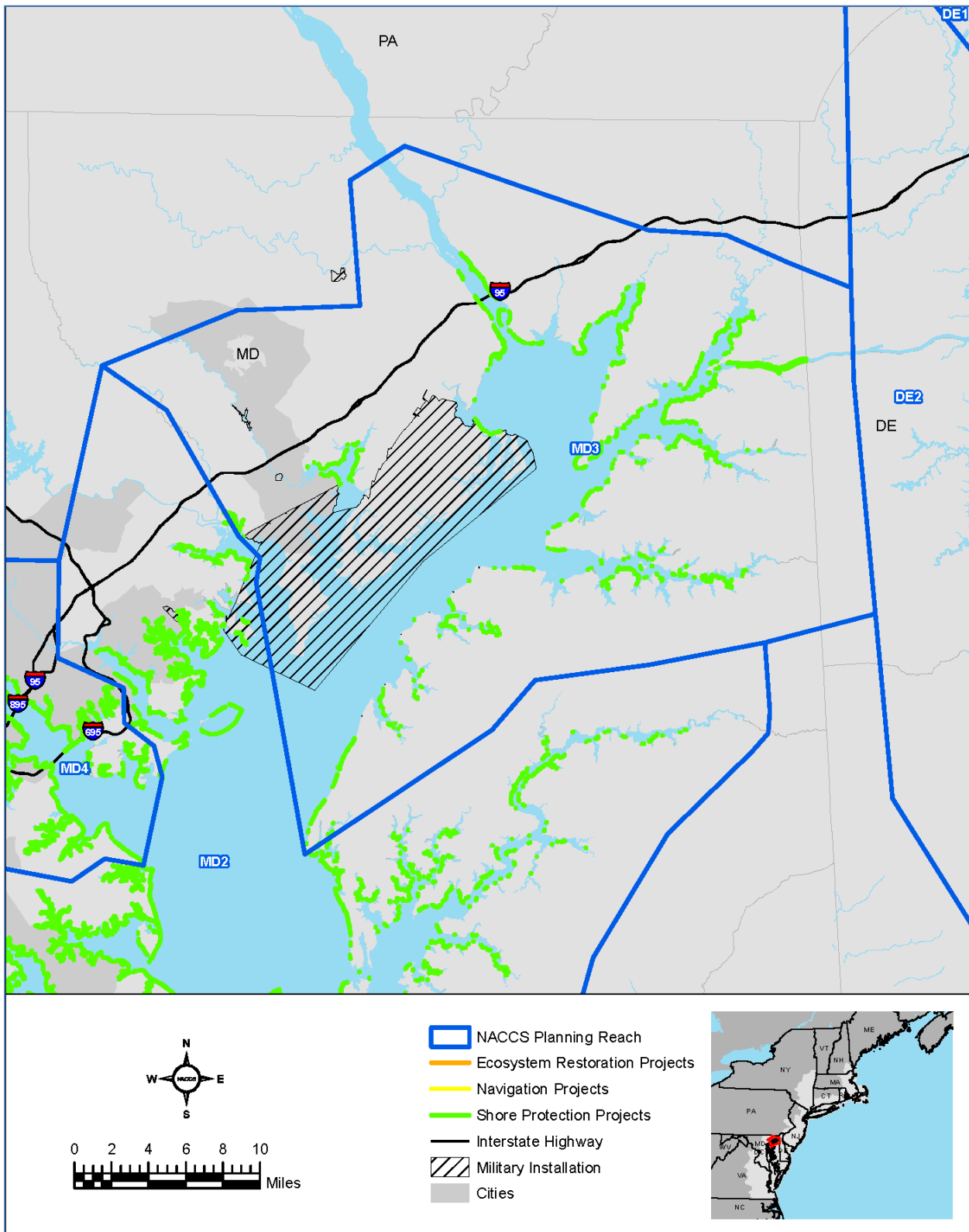


Figure 11f-9: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MD3)

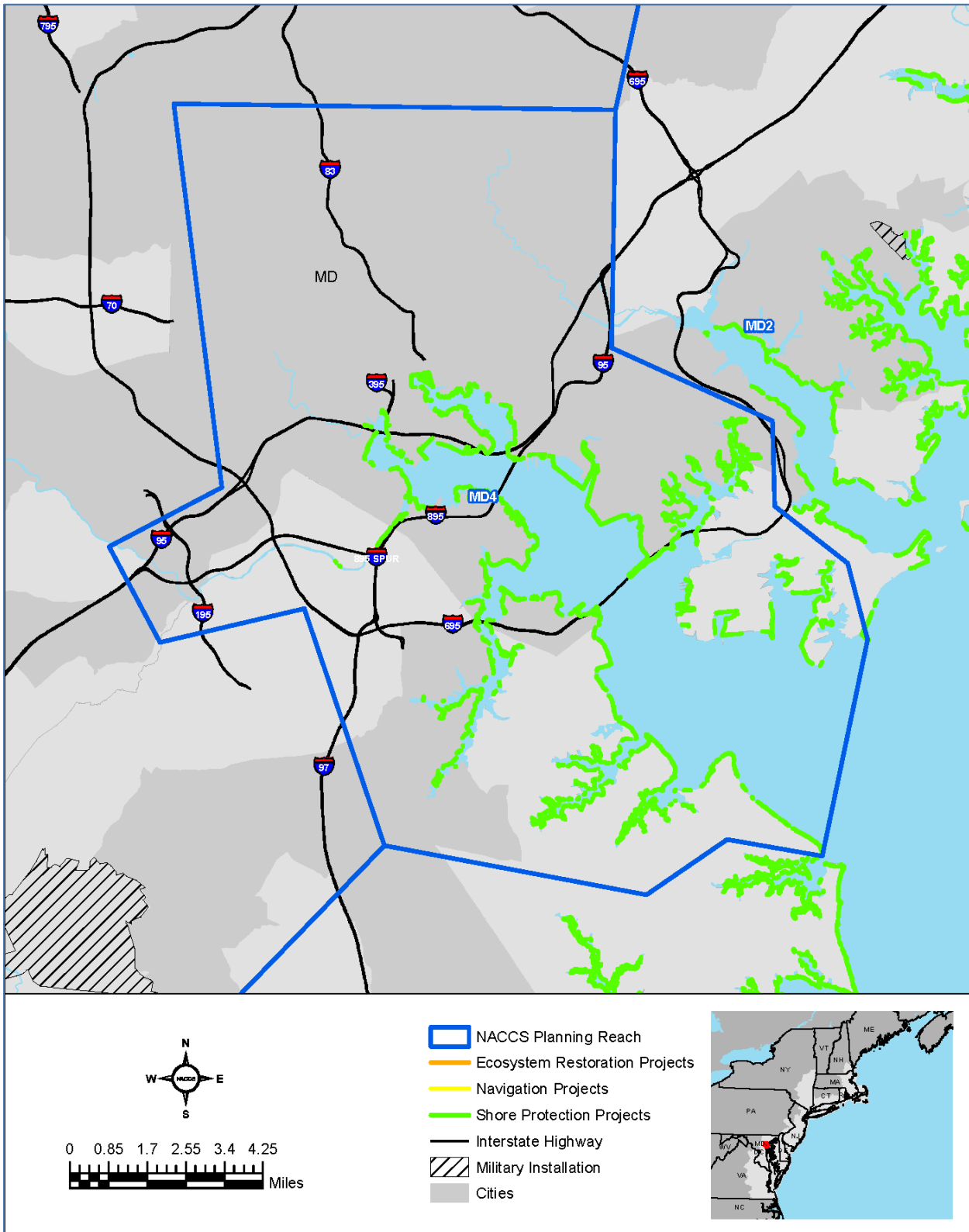


Figure If-10: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MD4)

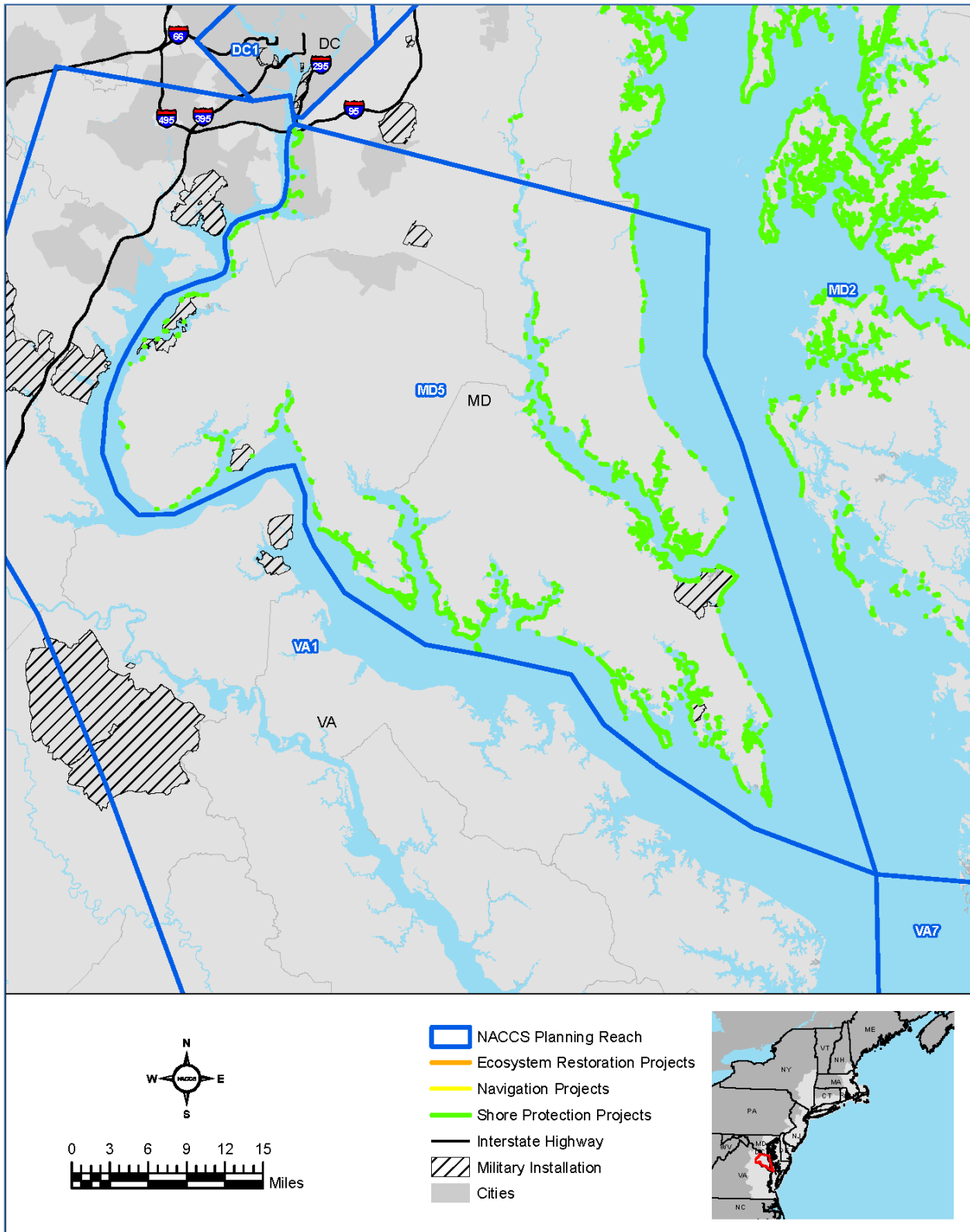


Figure If-11: State Projects Included in the Post-Hurricane Sandy Landscape Condition (MD5)

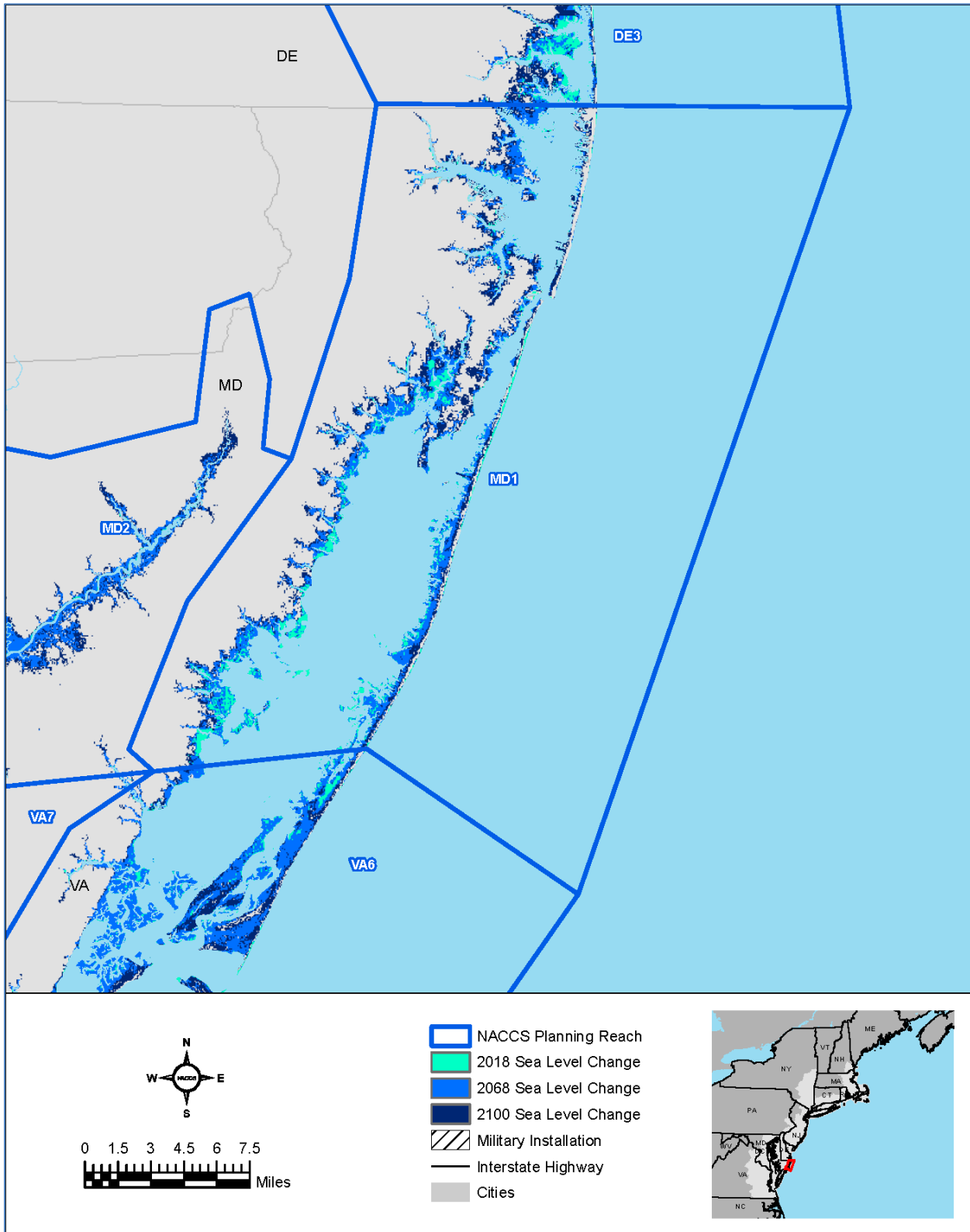


Figure IIf-12: USACE High Scenario Future Mean Sea Level Change Inundation (MD1)

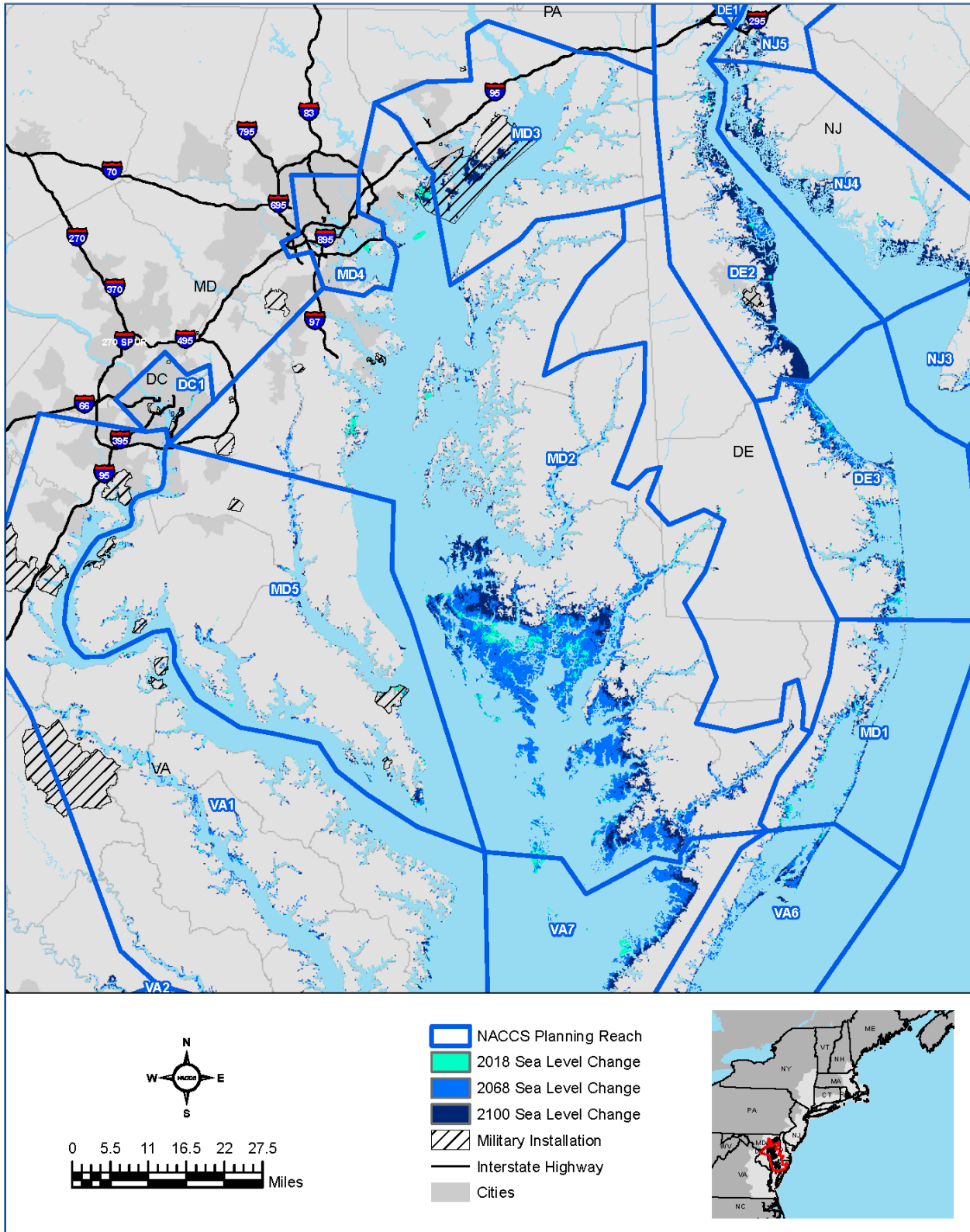


Figure IIf-13: USACE High Scenario Future Mean Sea Level Change Inundation (MD2)

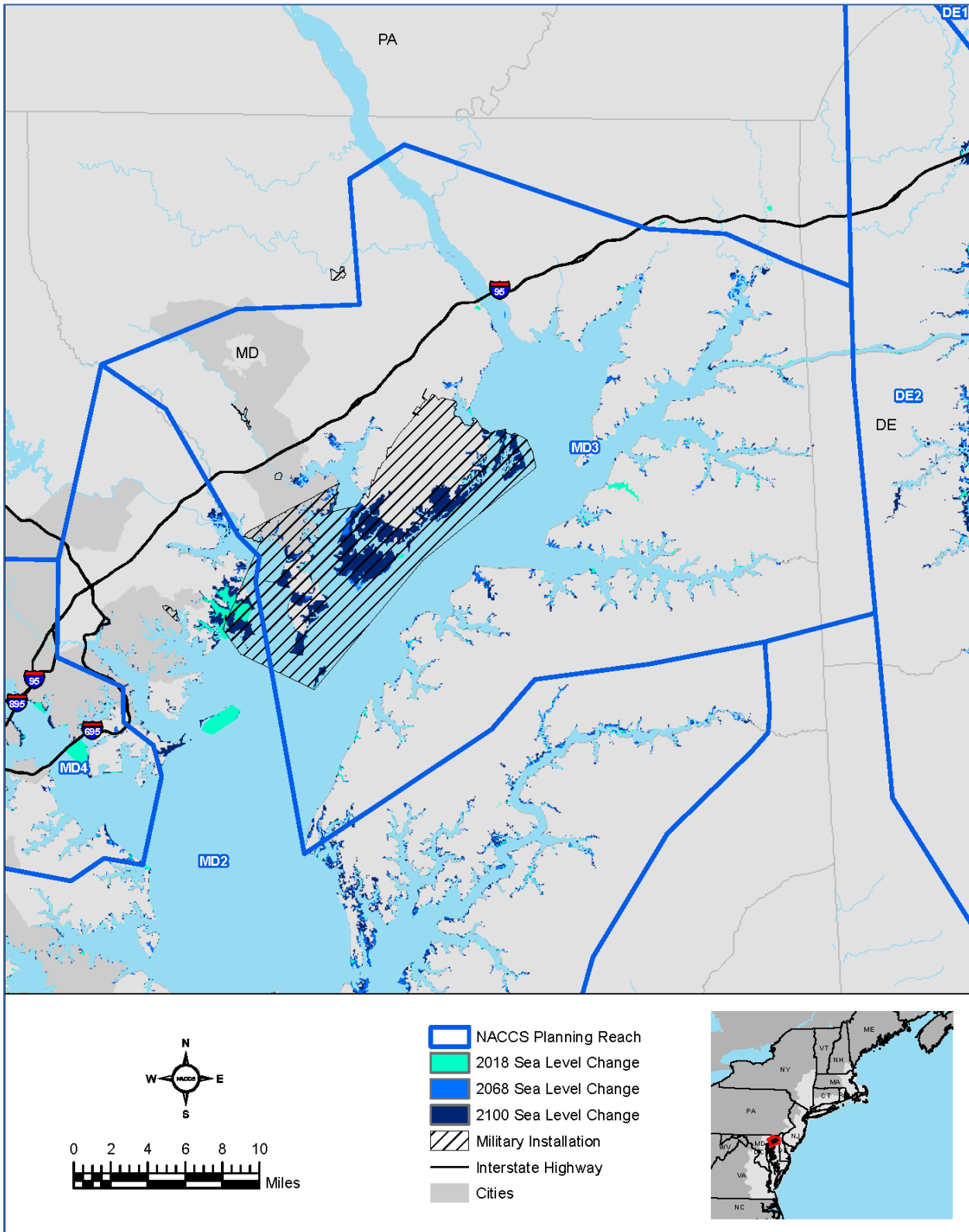


Figure If-14: USACE High Scenario Future Mean Sea Level Change Inundation (MD3)

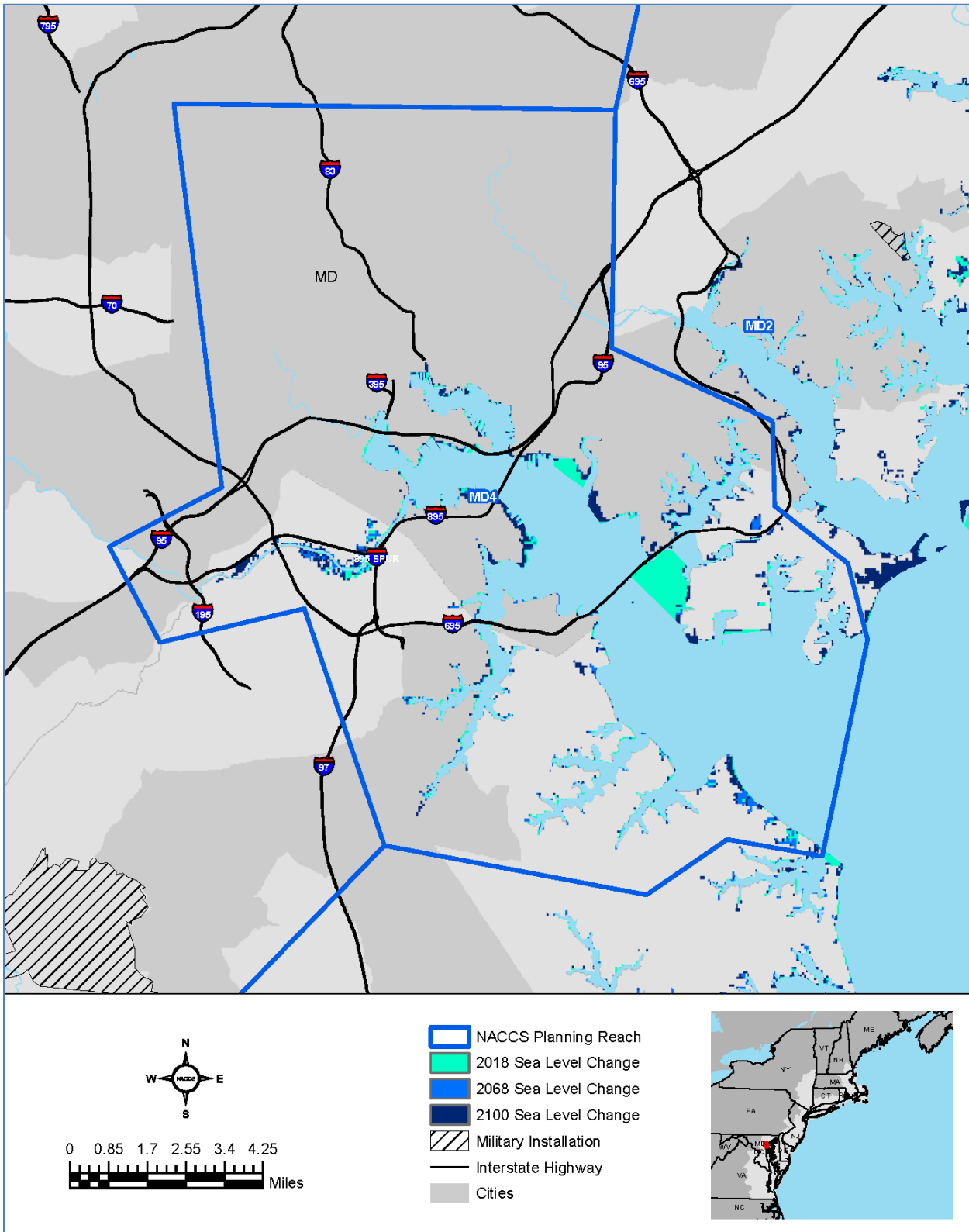


Figure IIf-15: USACE High Scenario Future Mean Sea Level Change Inundation (MD4)

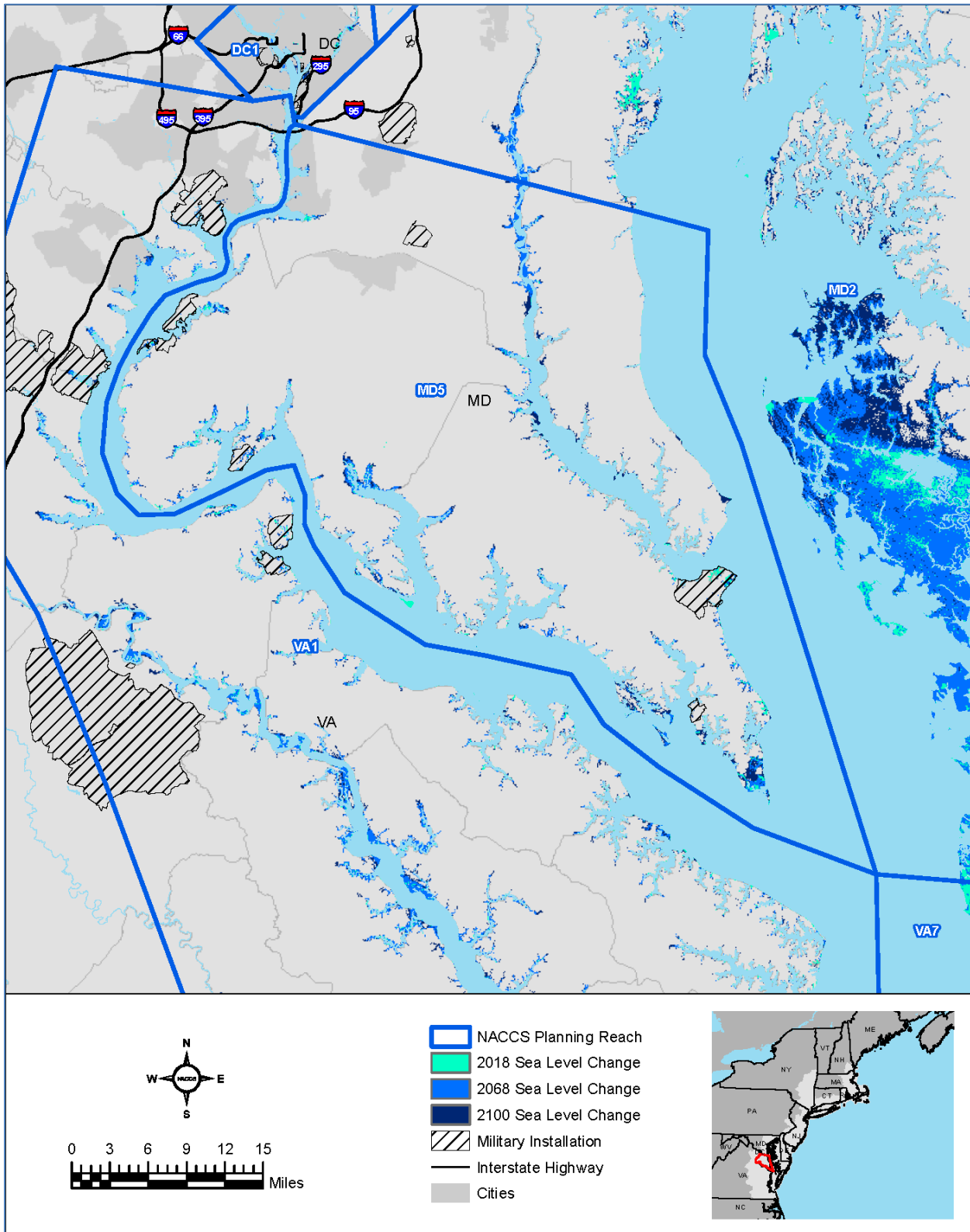


Figure If-16: USACE High Scenario Future Mean Sea Level Change Inundation (MD5)

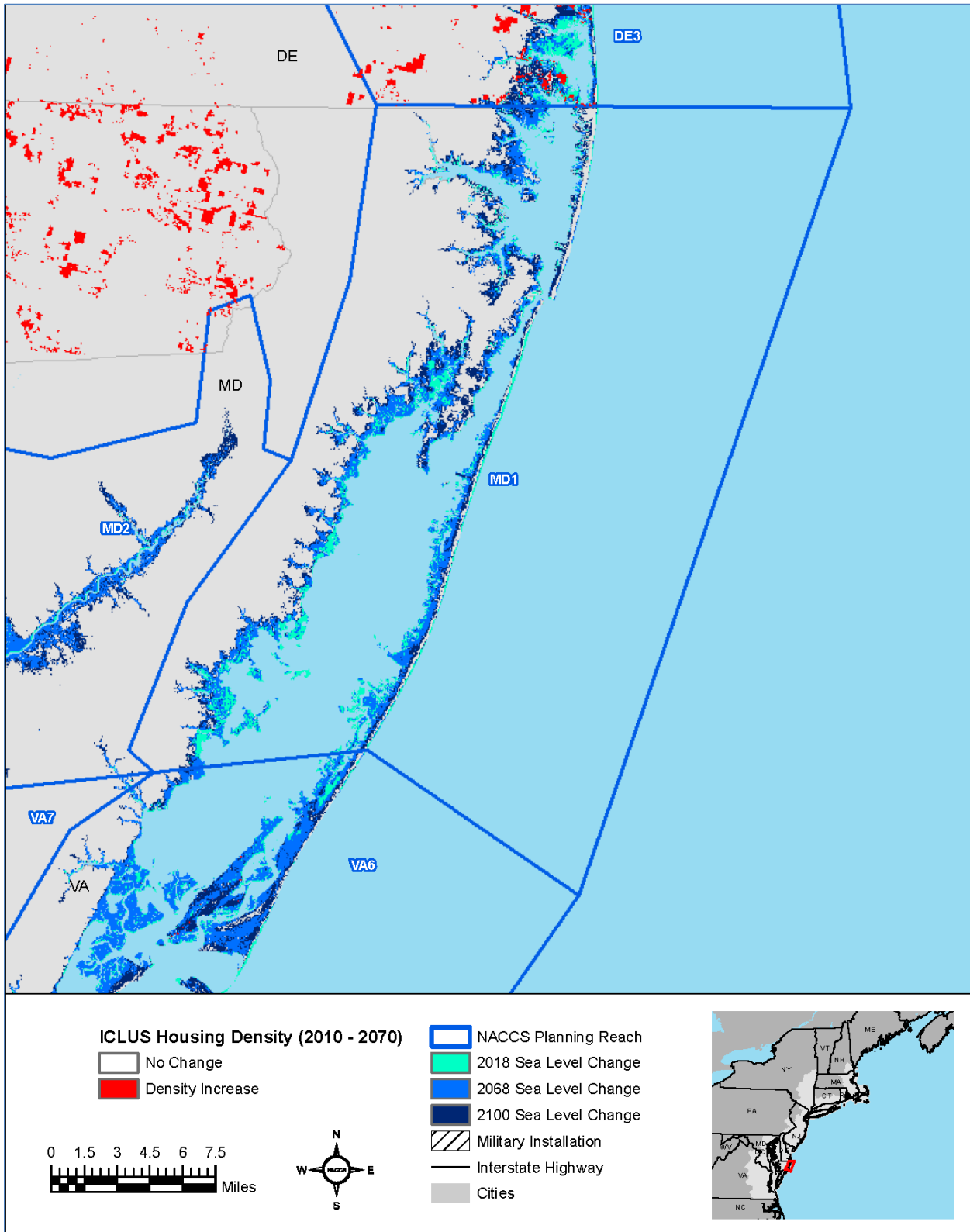


Figure If-17: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MD1)

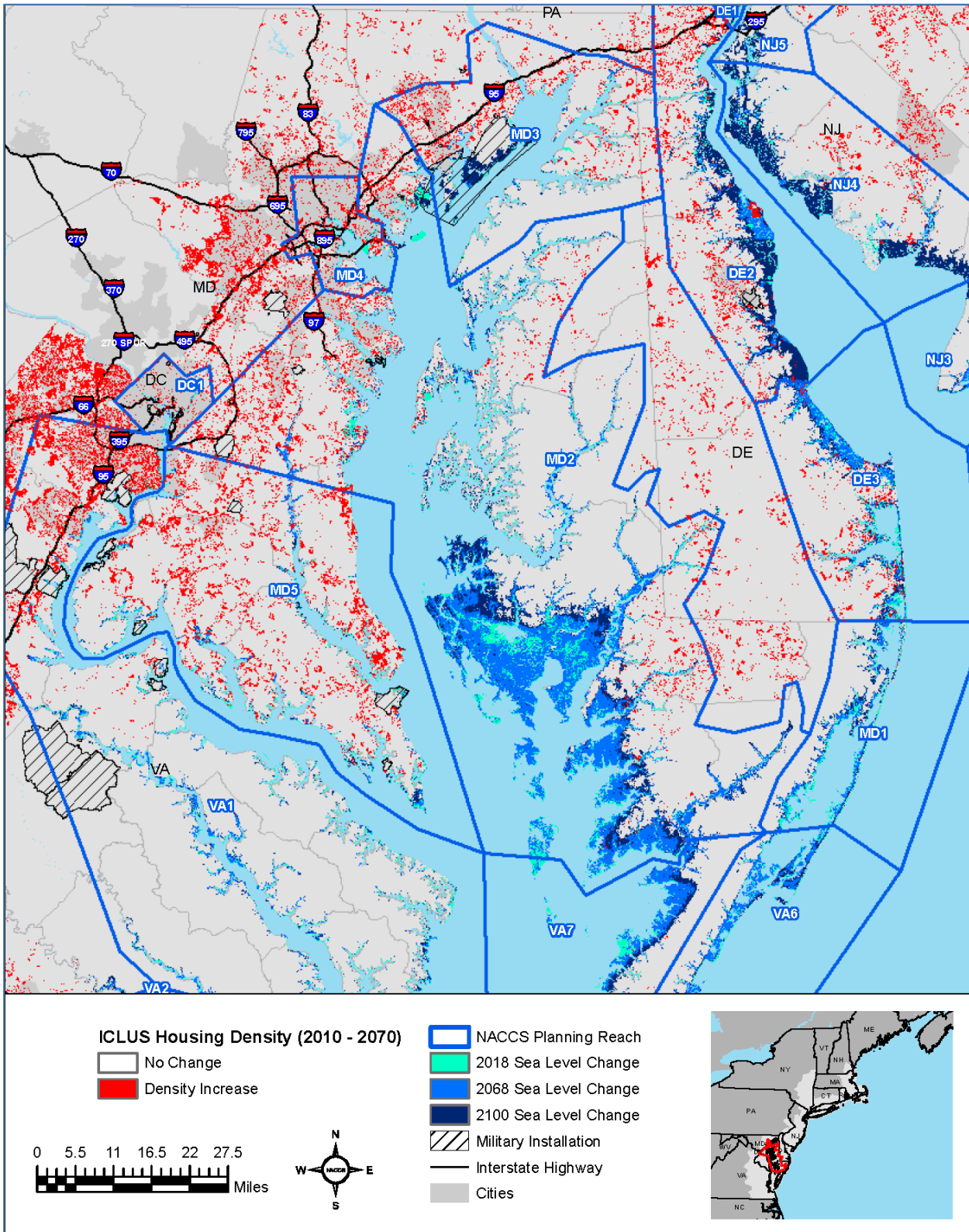


Figure IIf-18: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MD2)

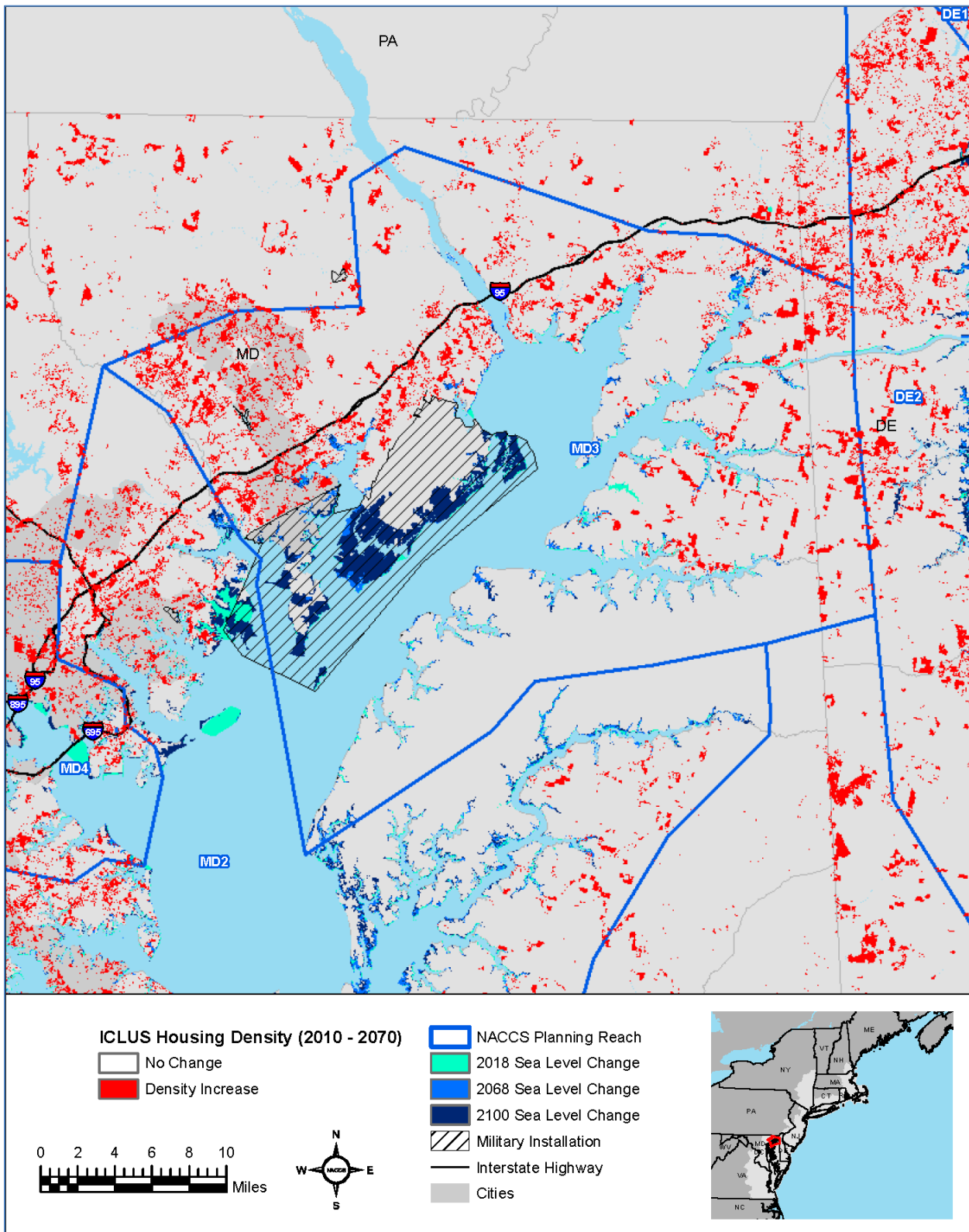


Figure If-19: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MD3)

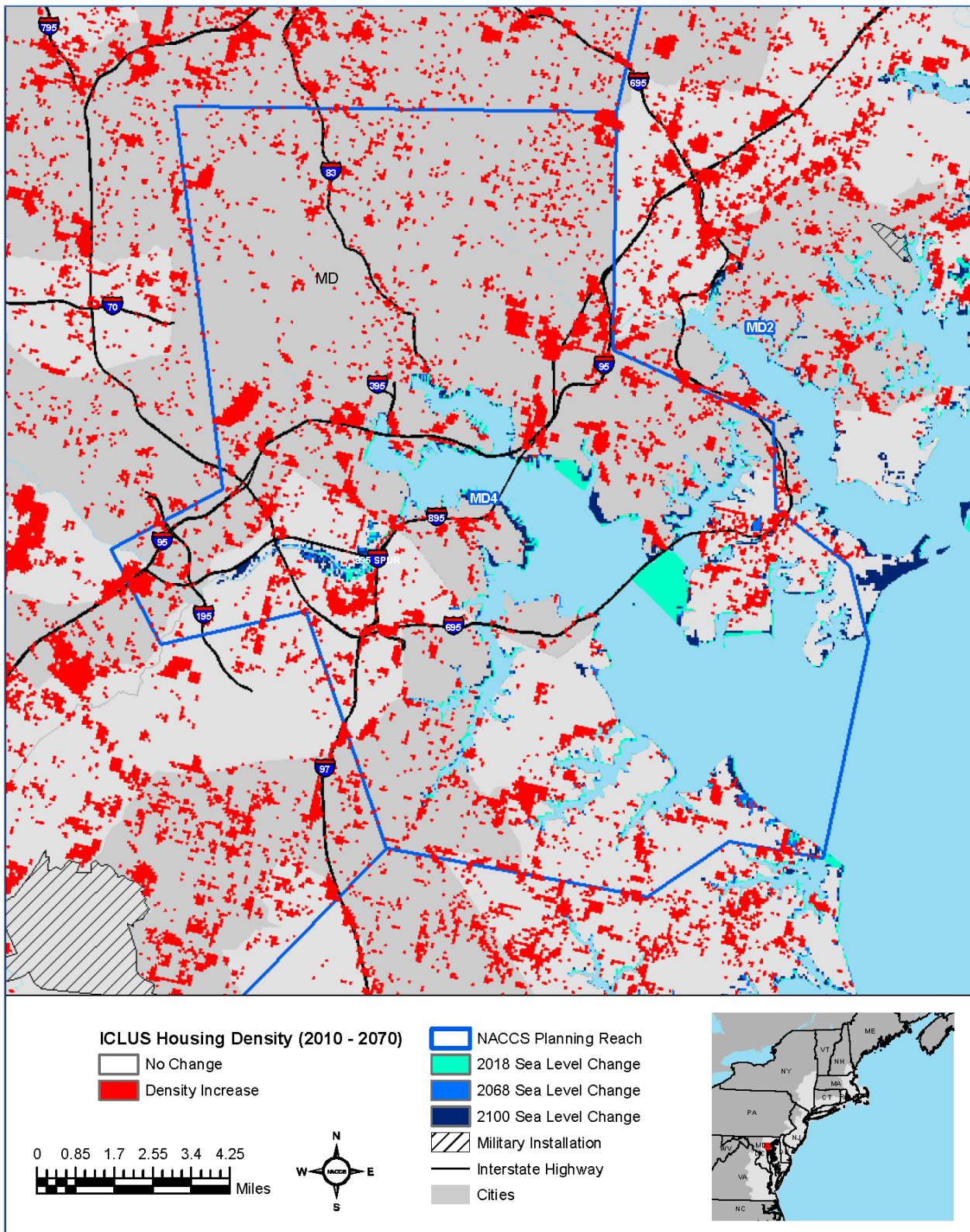


Figure If-20: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MD4)

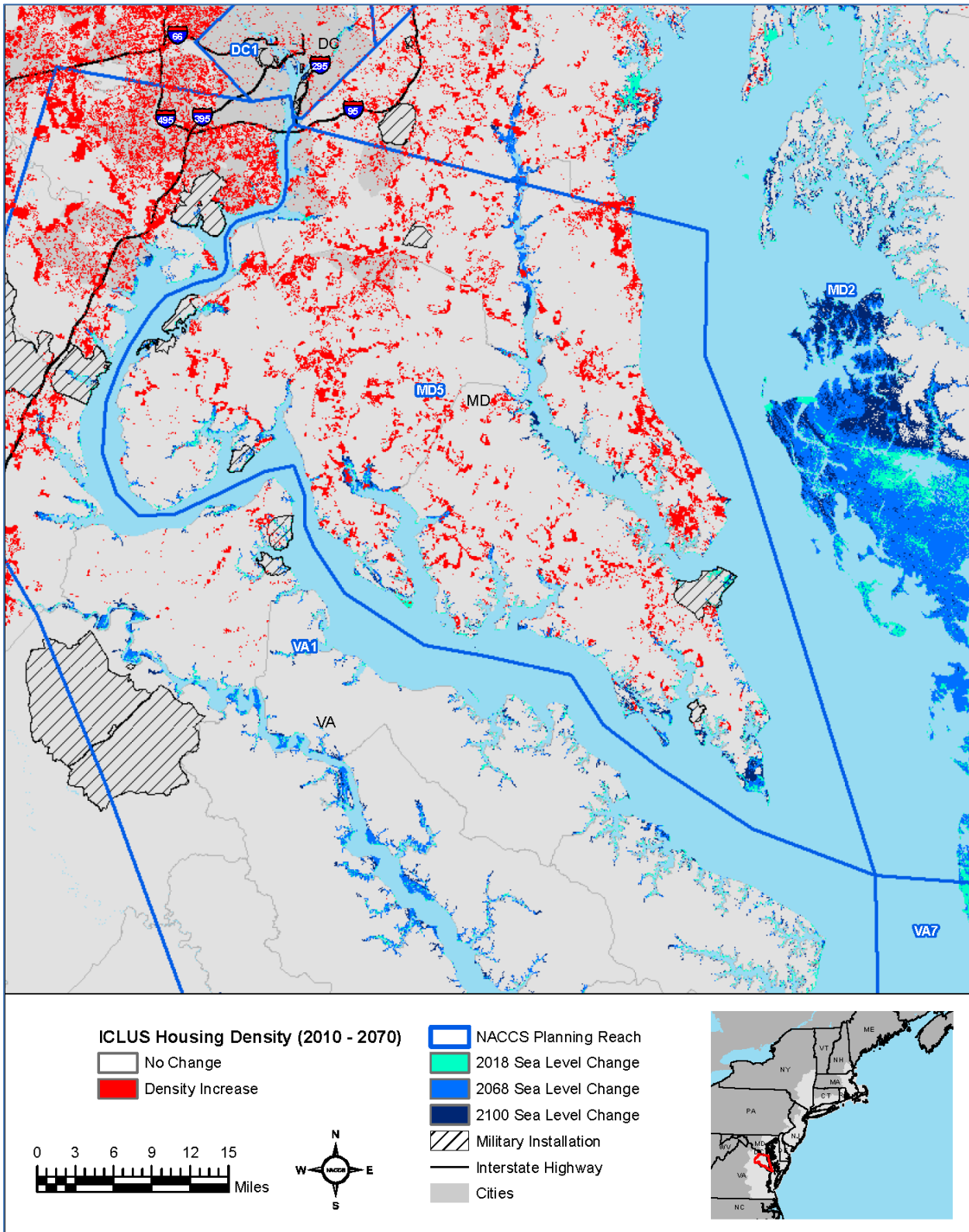


Figure If-21: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (MD5)

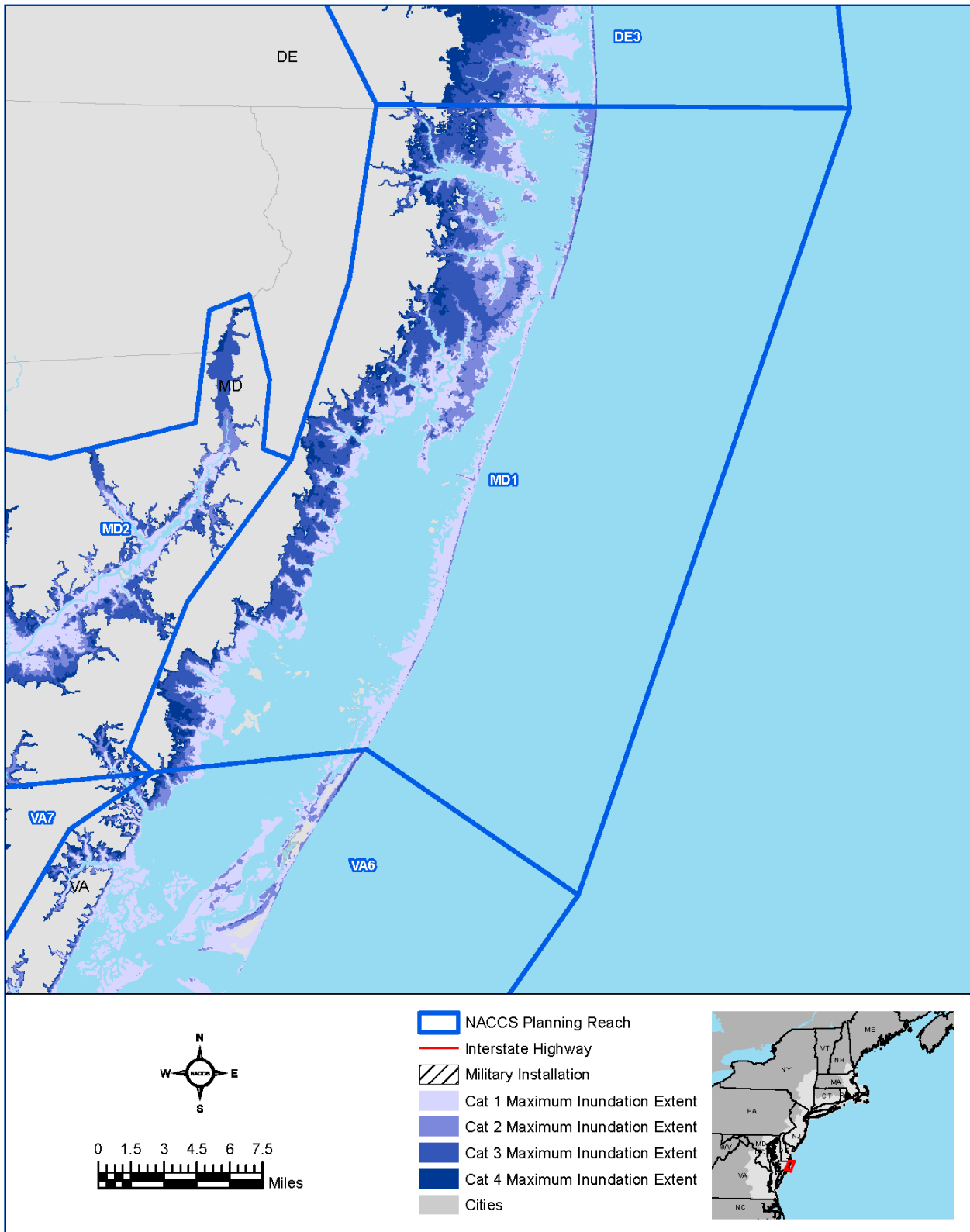


Figure If-22: Impacted Area Category 1-4 Water Levels (MD1)



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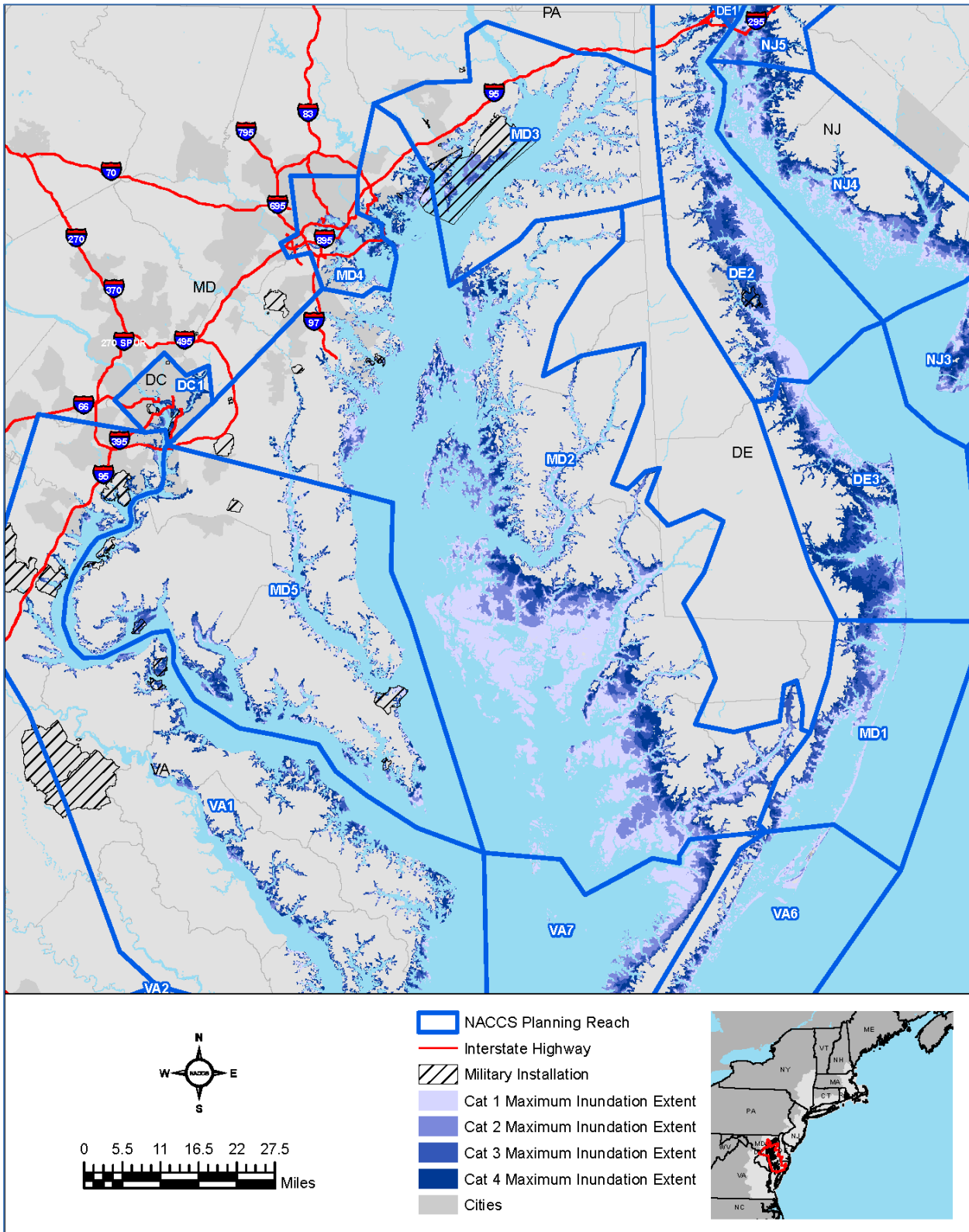


Figure If-23: Impacted Area Category 1-4 Water Levels (MD2)

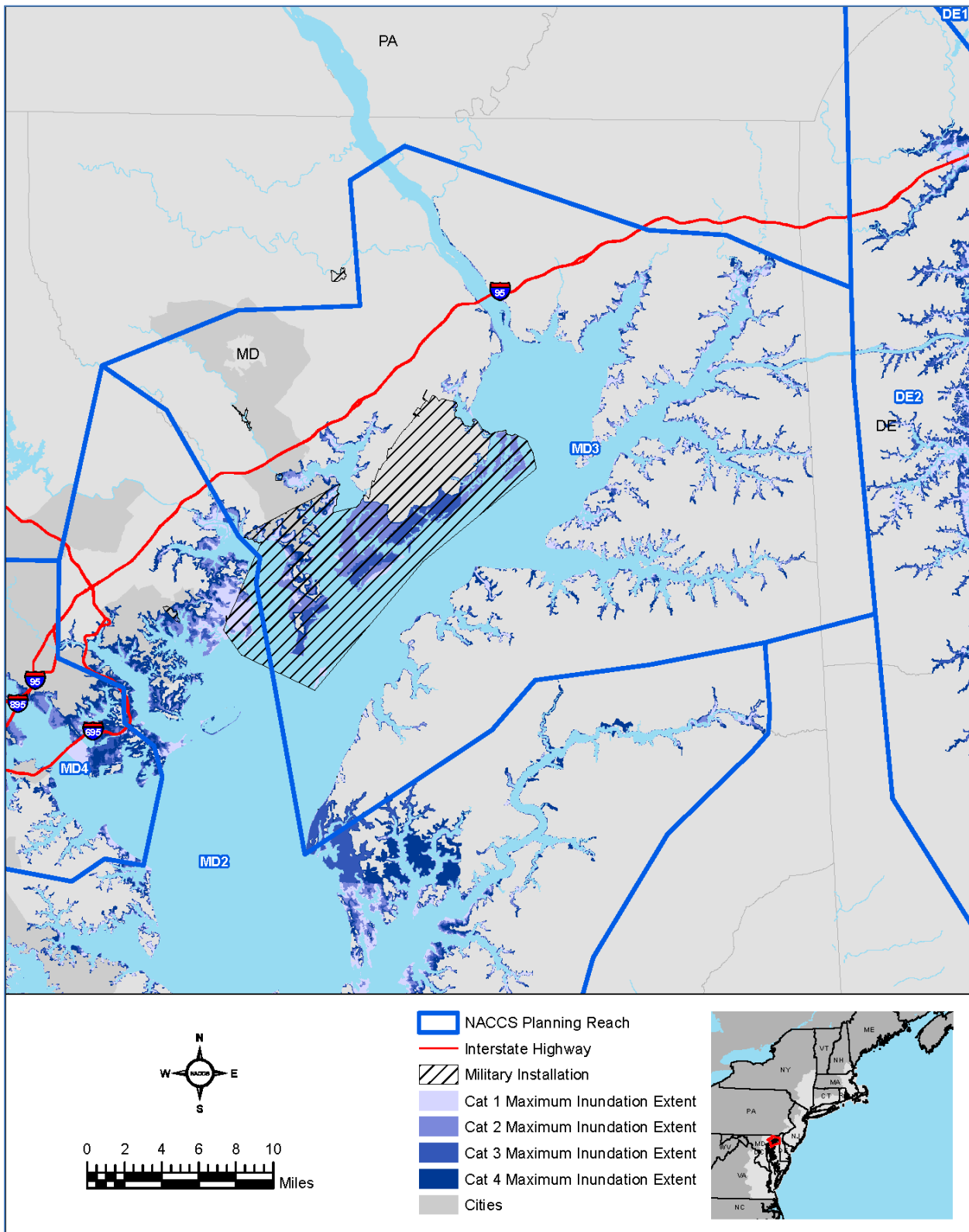


Figure If-24: Impacted Area Category 1-4 Water Levels (MD3)

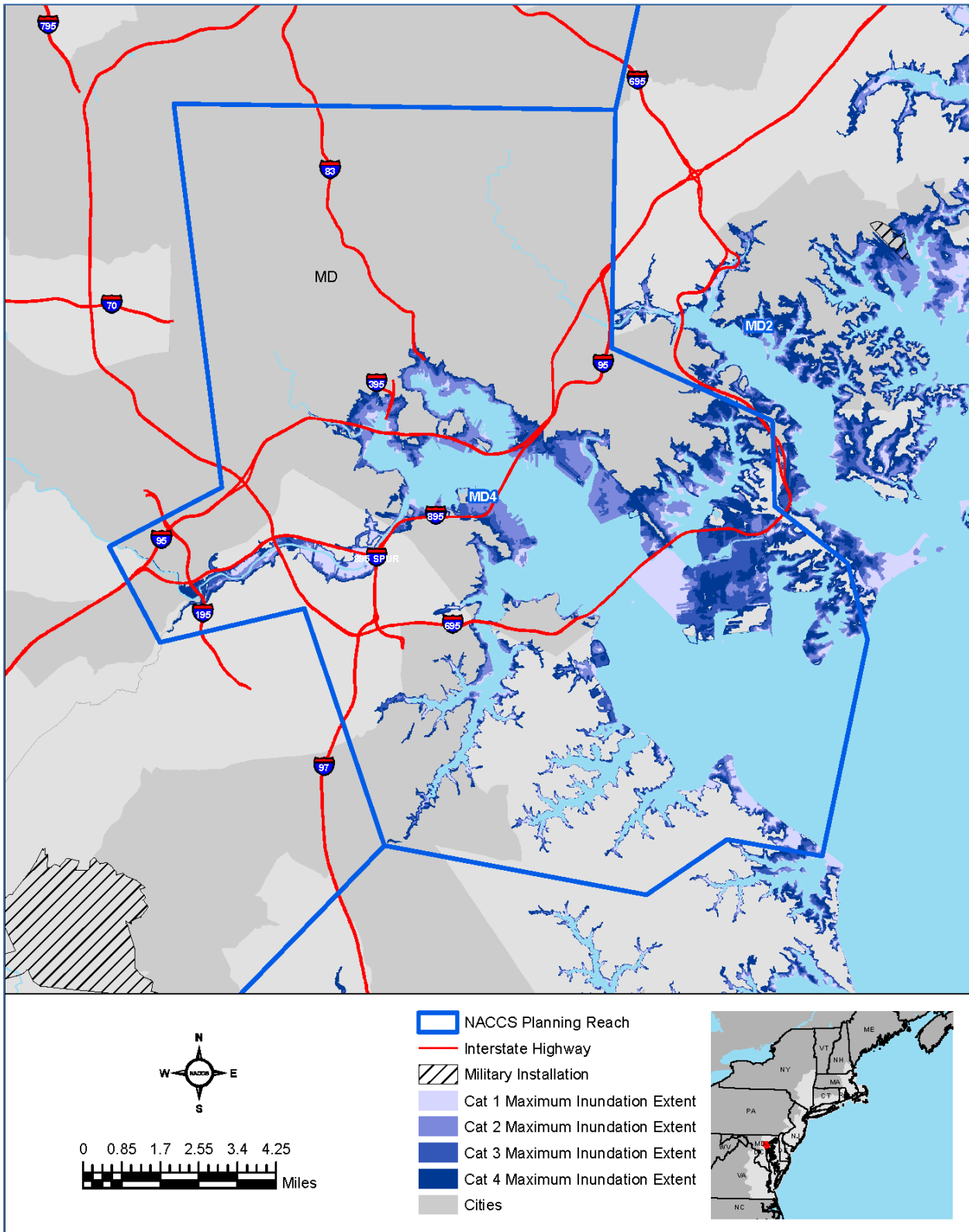


Figure If-25: Impacted Area Category 1-4 Water Levels (MD4)

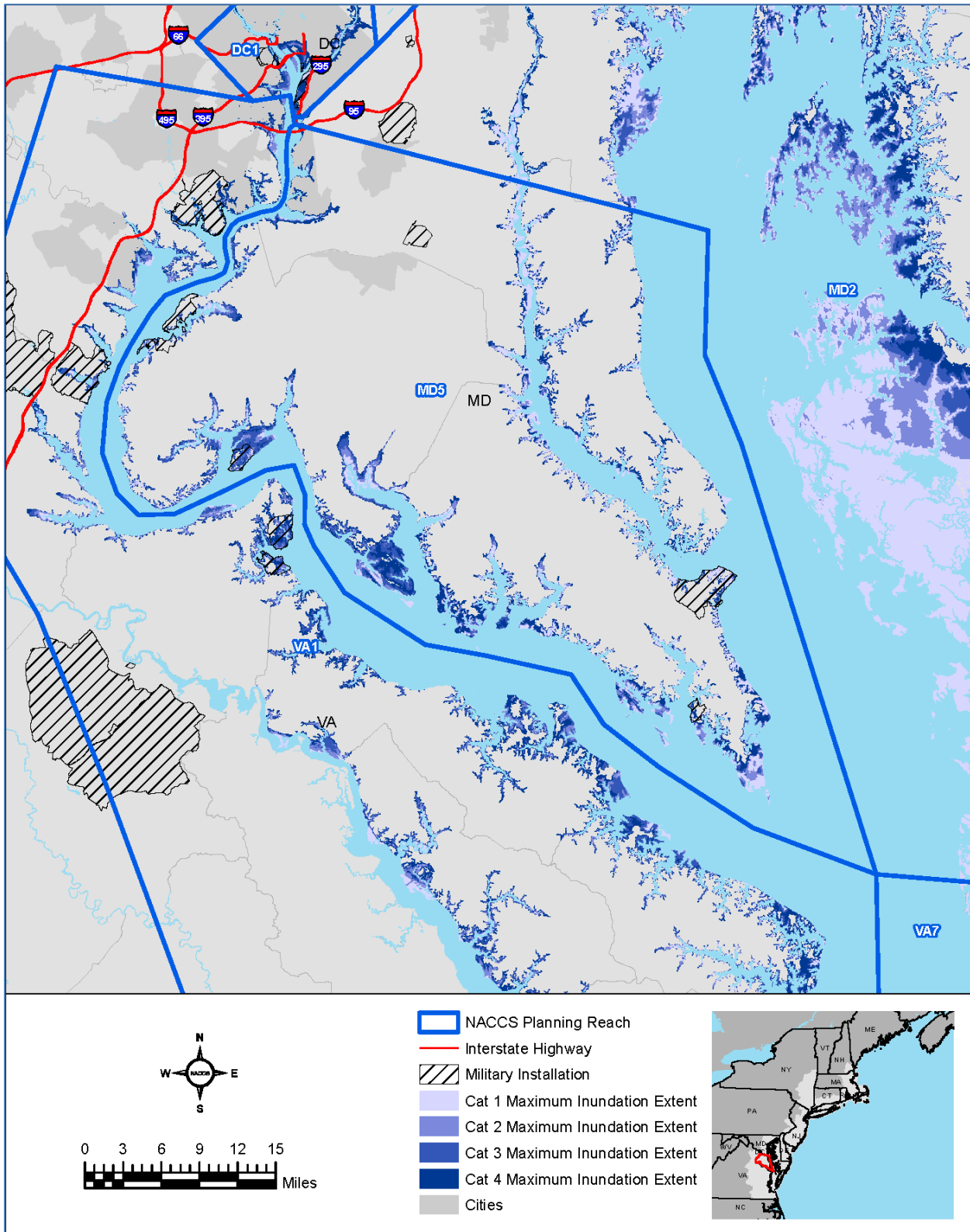


Figure If-26: Impacted Area Category 1-4 Water Levels (MD5)

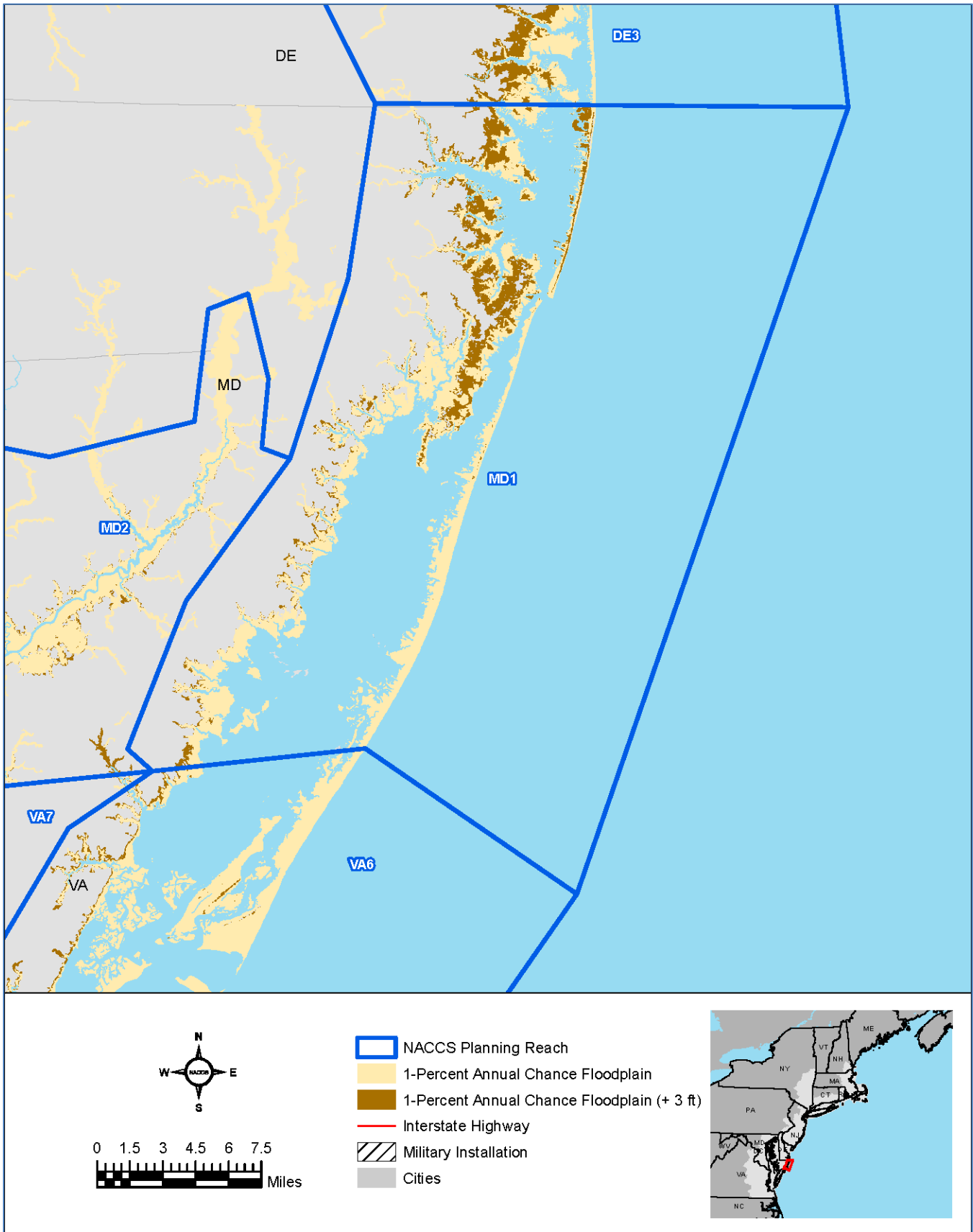


Figure IIf-27: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (MD1)

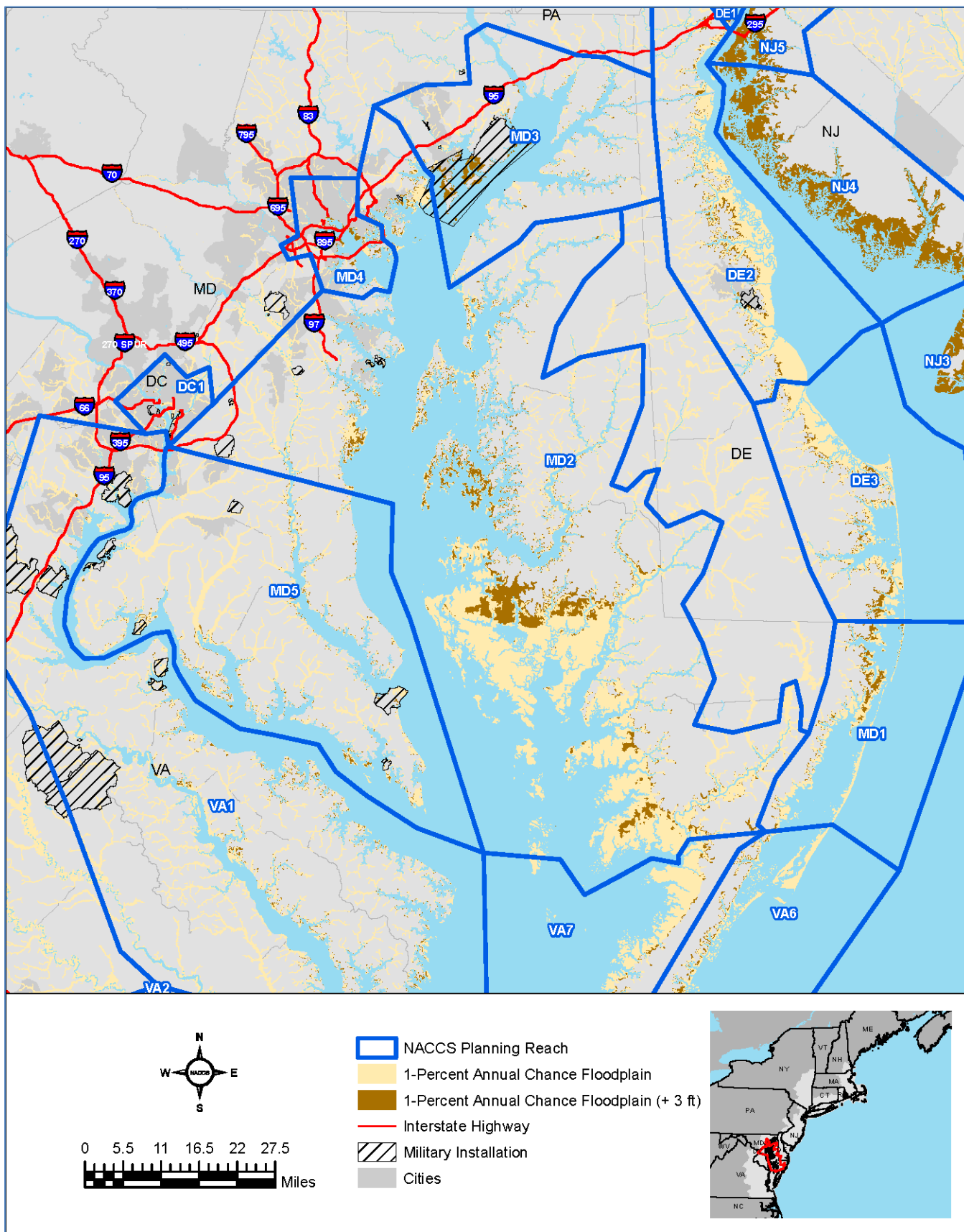


Figure IIf-28: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (MD2)

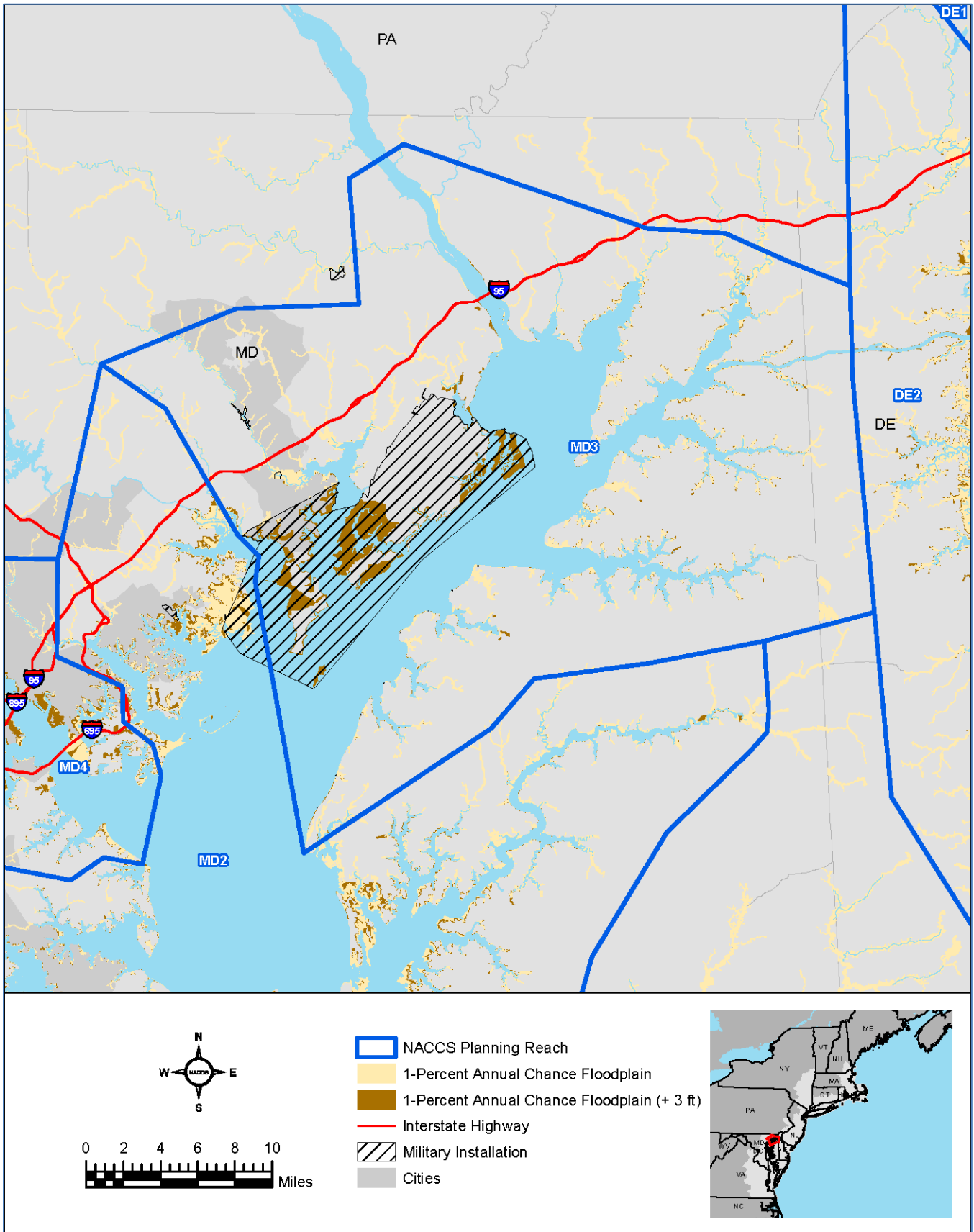


Figure IIf-29: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (MD3)

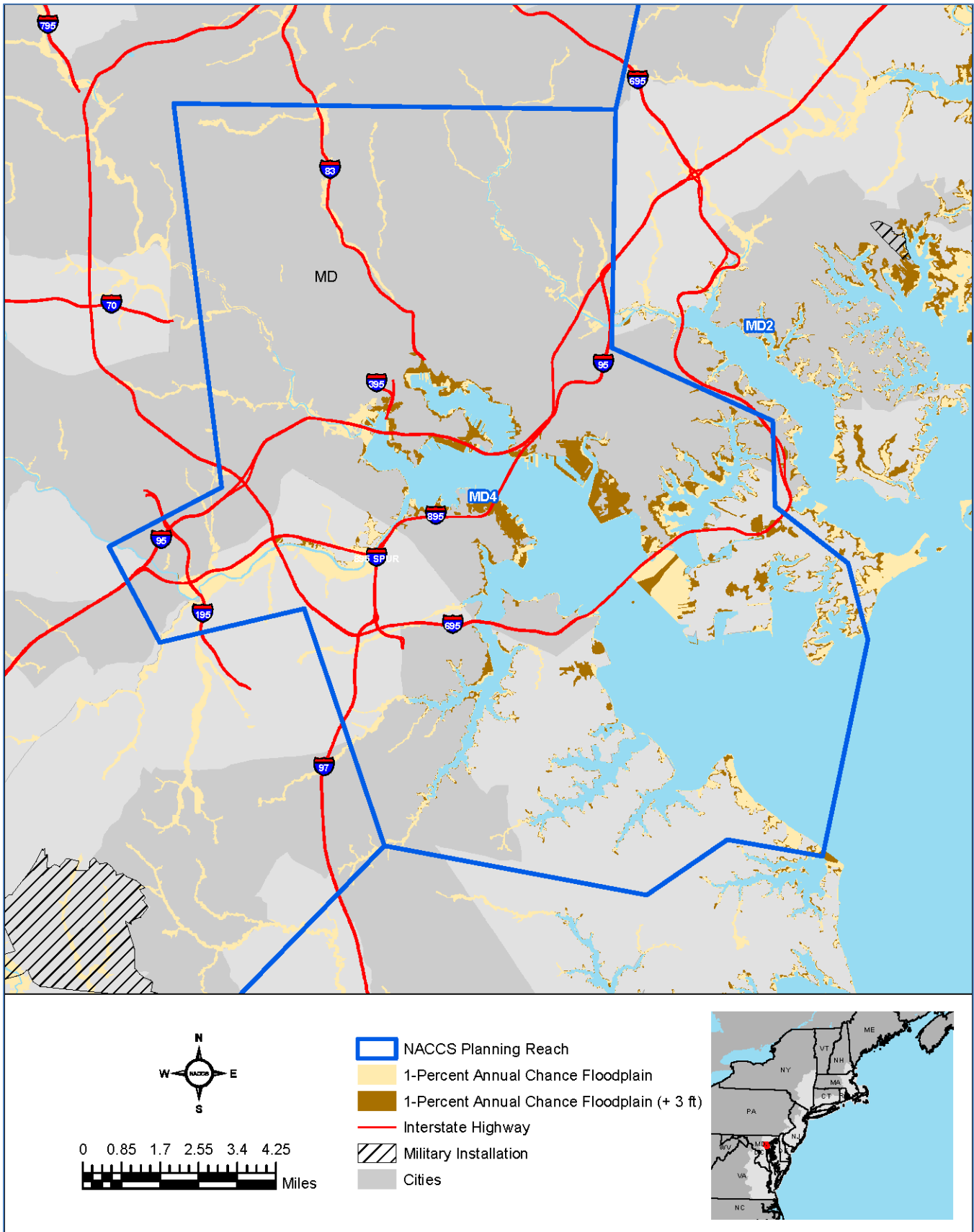


Figure IIf-30: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (MD4)

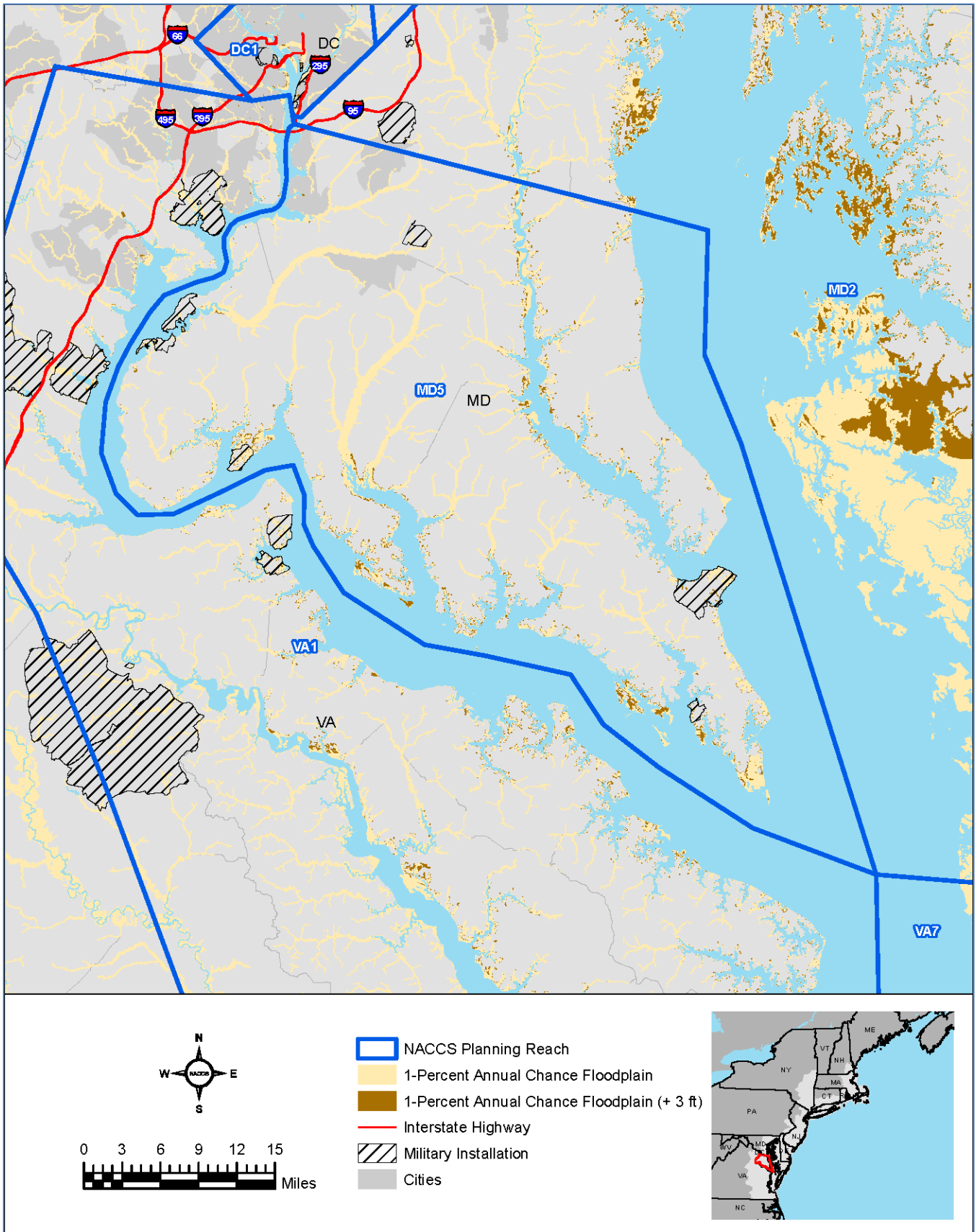


Figure If-31: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (MD5)

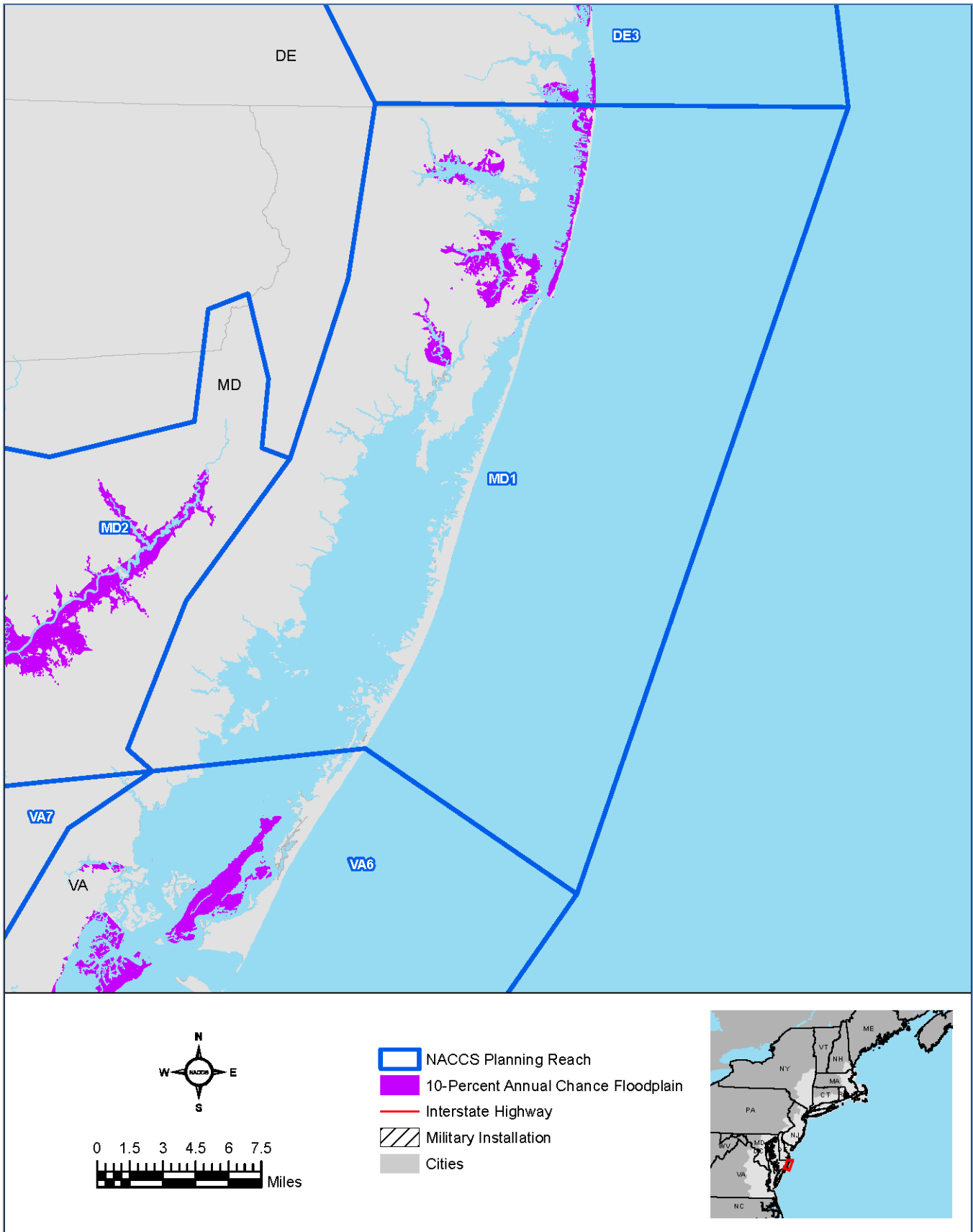


Figure IIf-32: Impacted Area 10-Percent Flood Water Surface (MD1)



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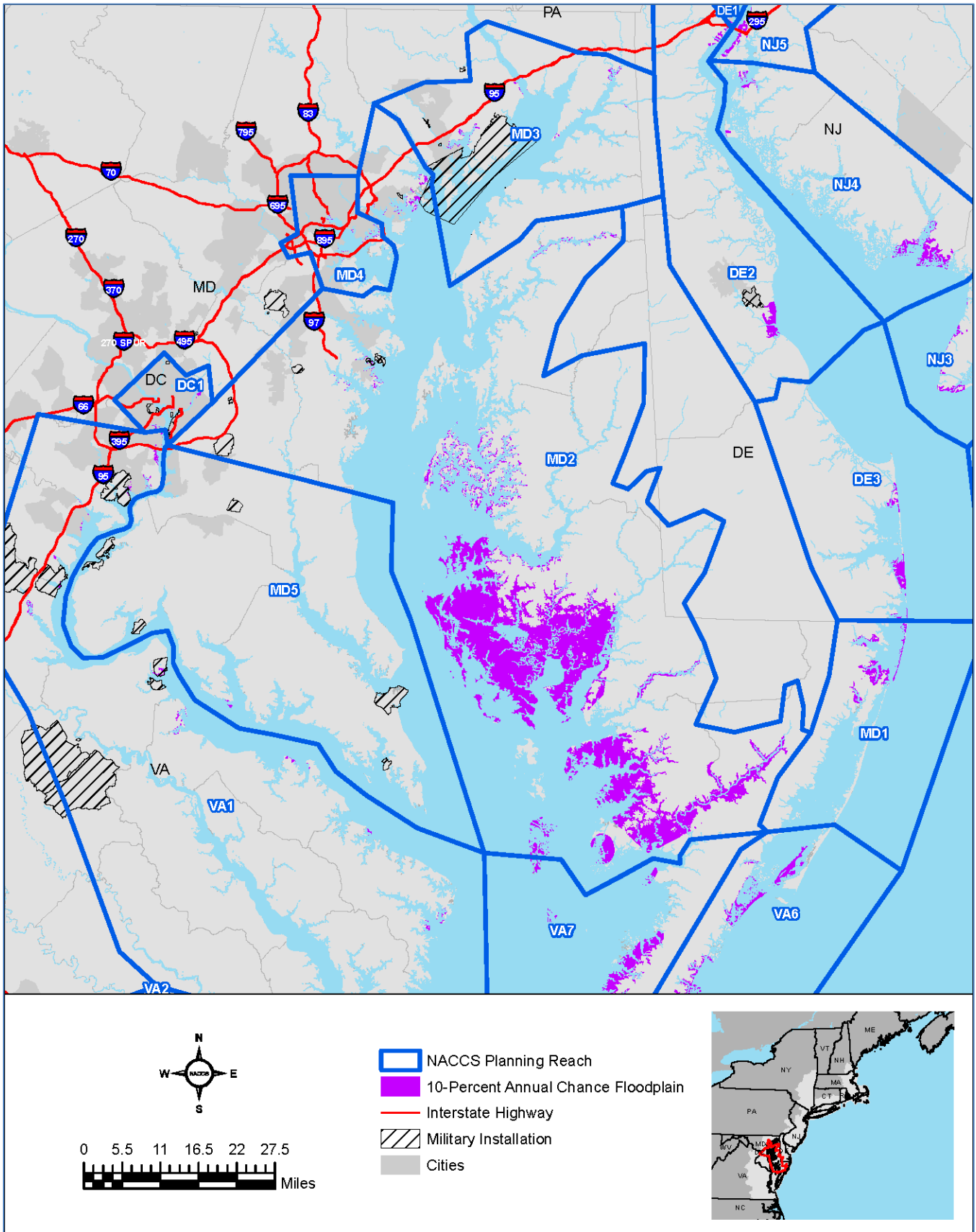


Figure IIf-33: Impacted Area 10-Percent Flood Water Surface (MD2)

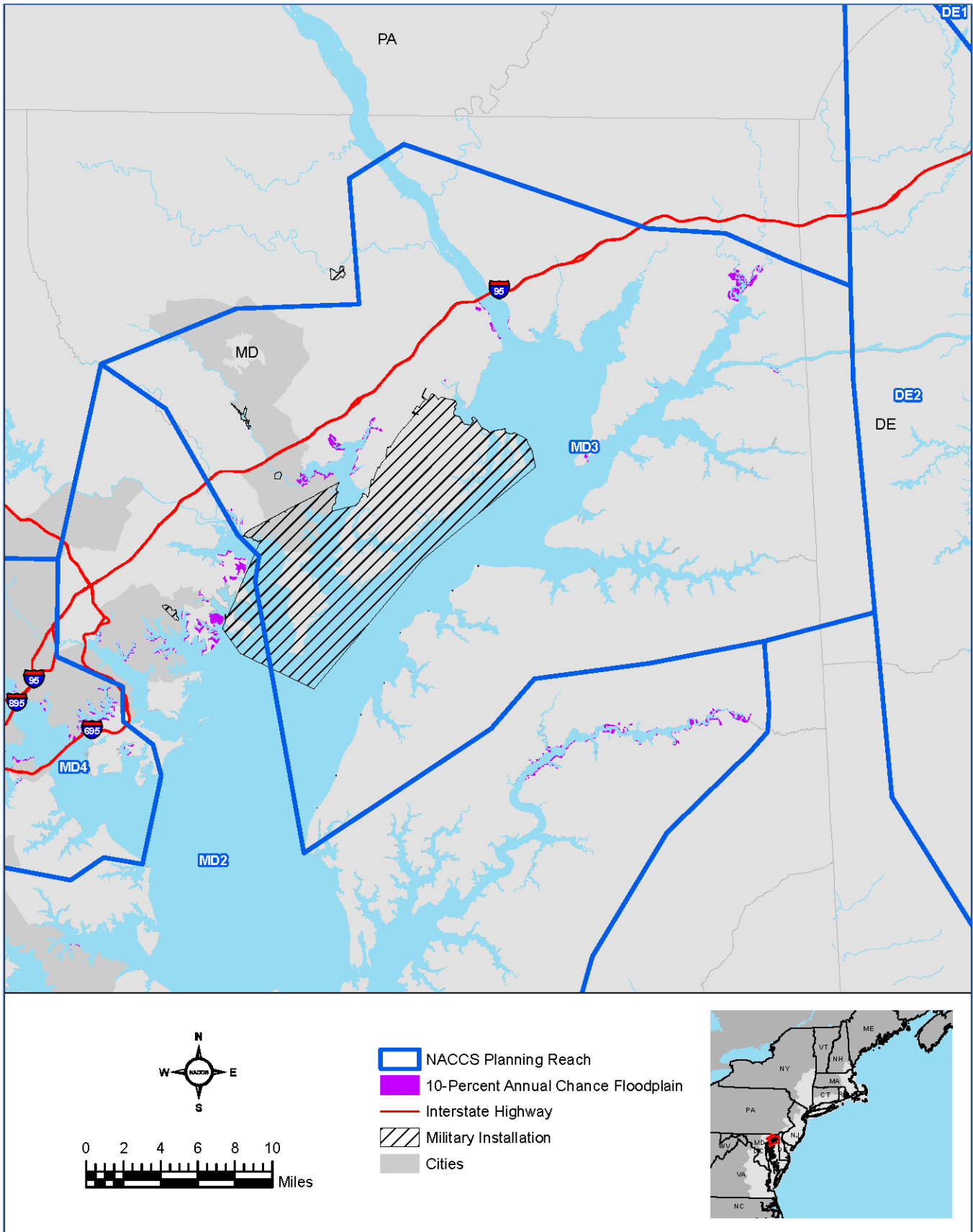


Figure If-34: Impacted Area 10-Percent Flood Water Surface (MD3)

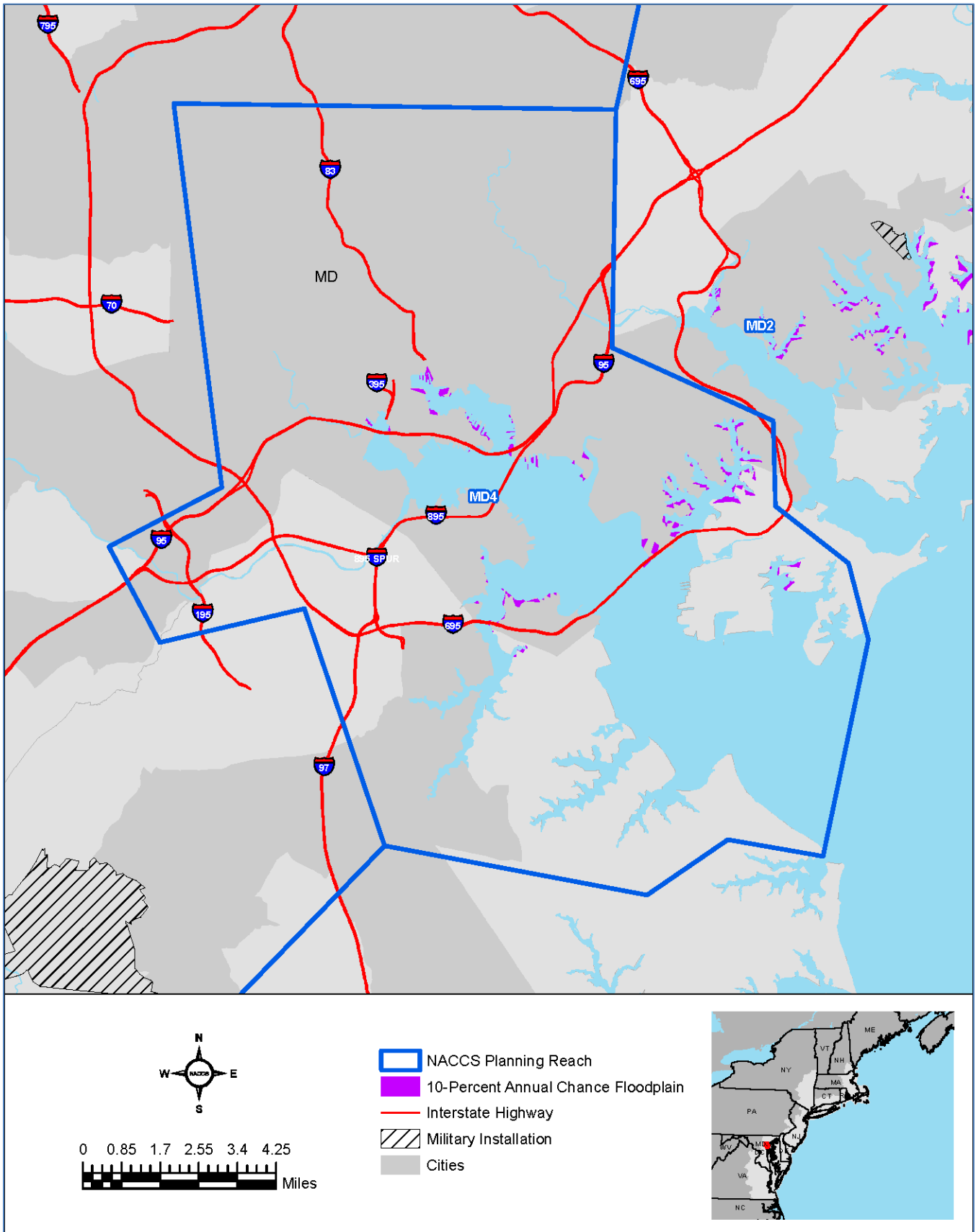


Figure If-35: Impacted Area 10-Percent Flood Water Surface (MD4)

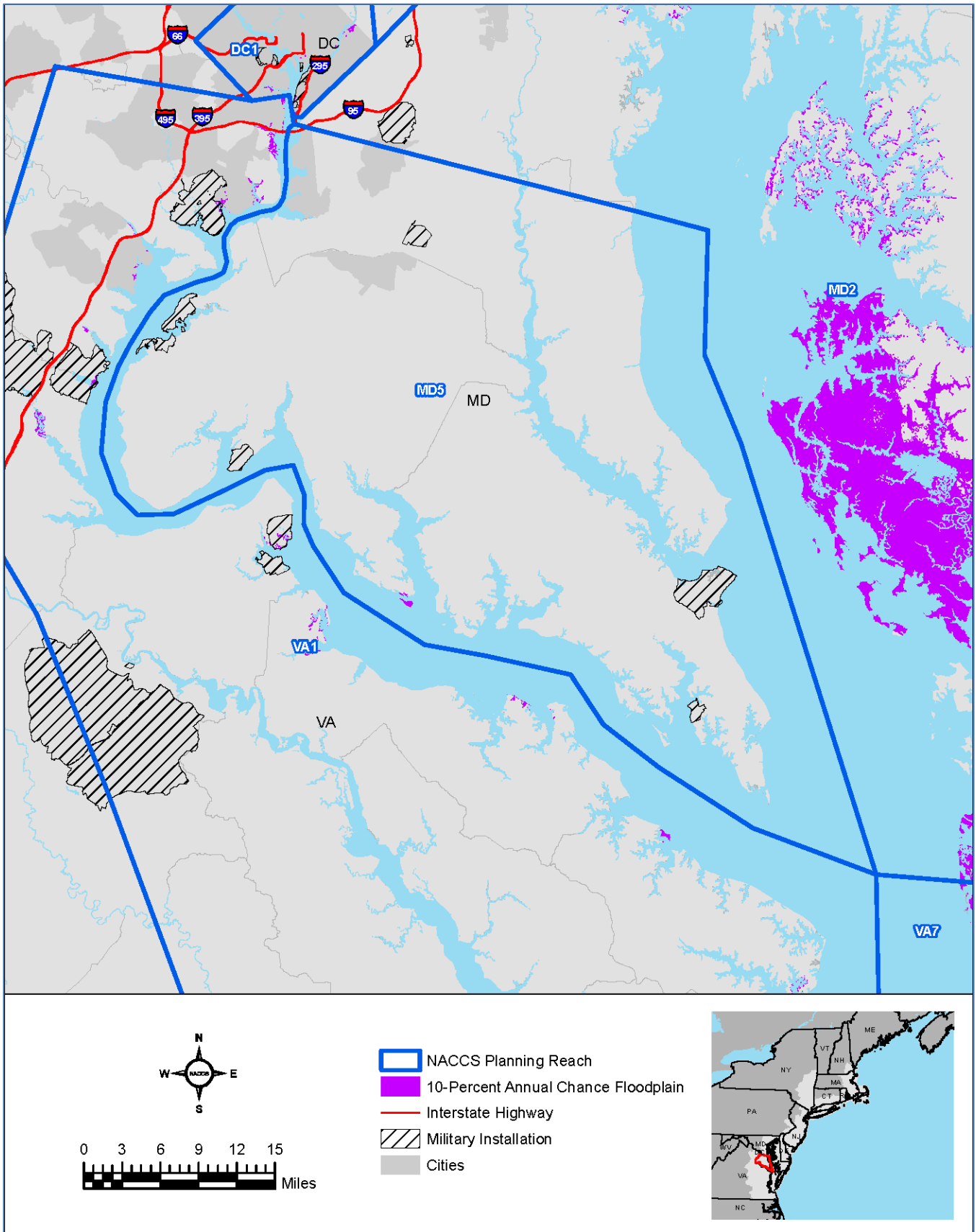


Figure IIf-36: Impacted Area 10-Percent Flood Water Surface (MD5)

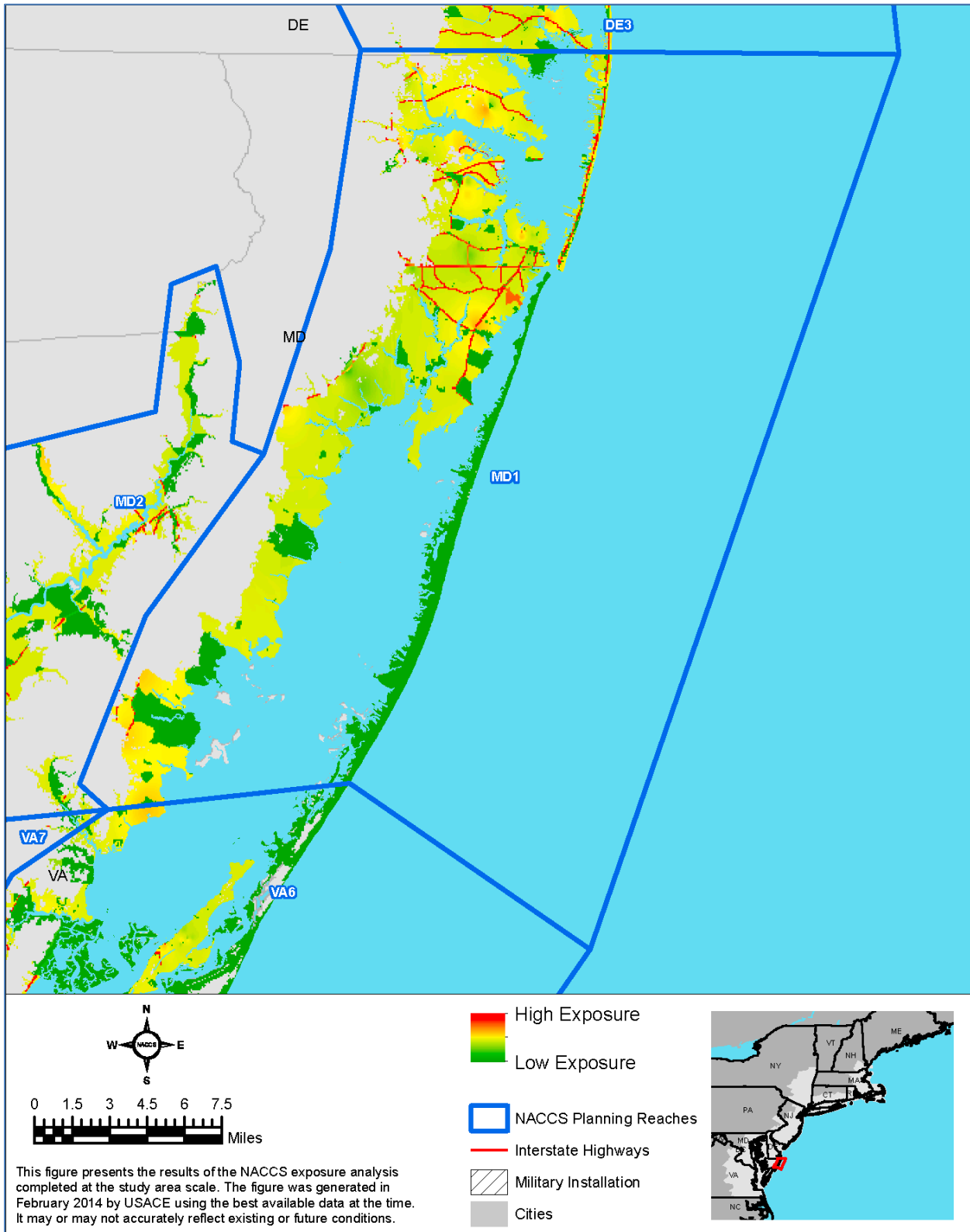


Figure If-37: Population and Infrastructure Exposure Index (MD1)

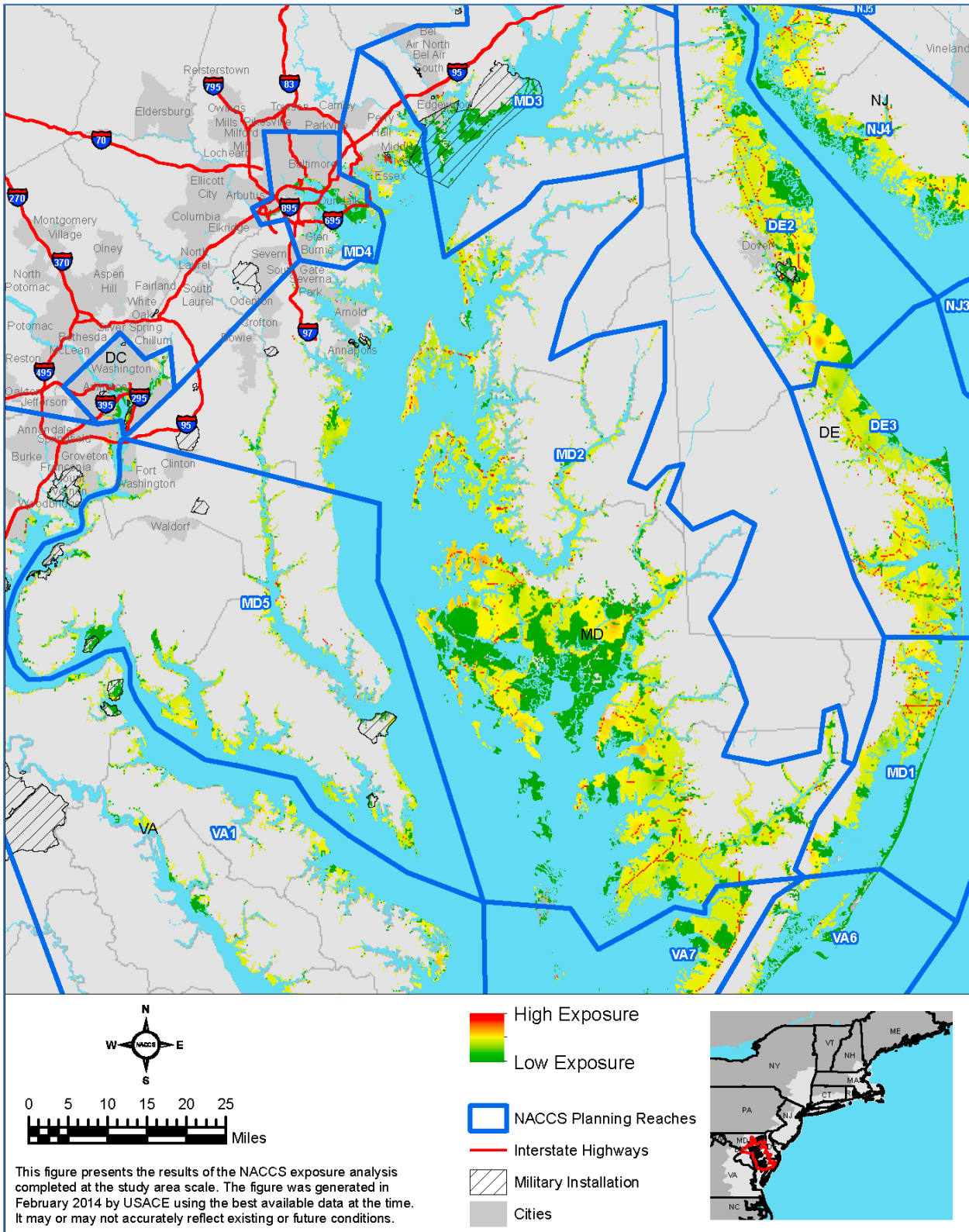


Figure 11f-38: Population and Infrastructure Exposure Index (MD2)

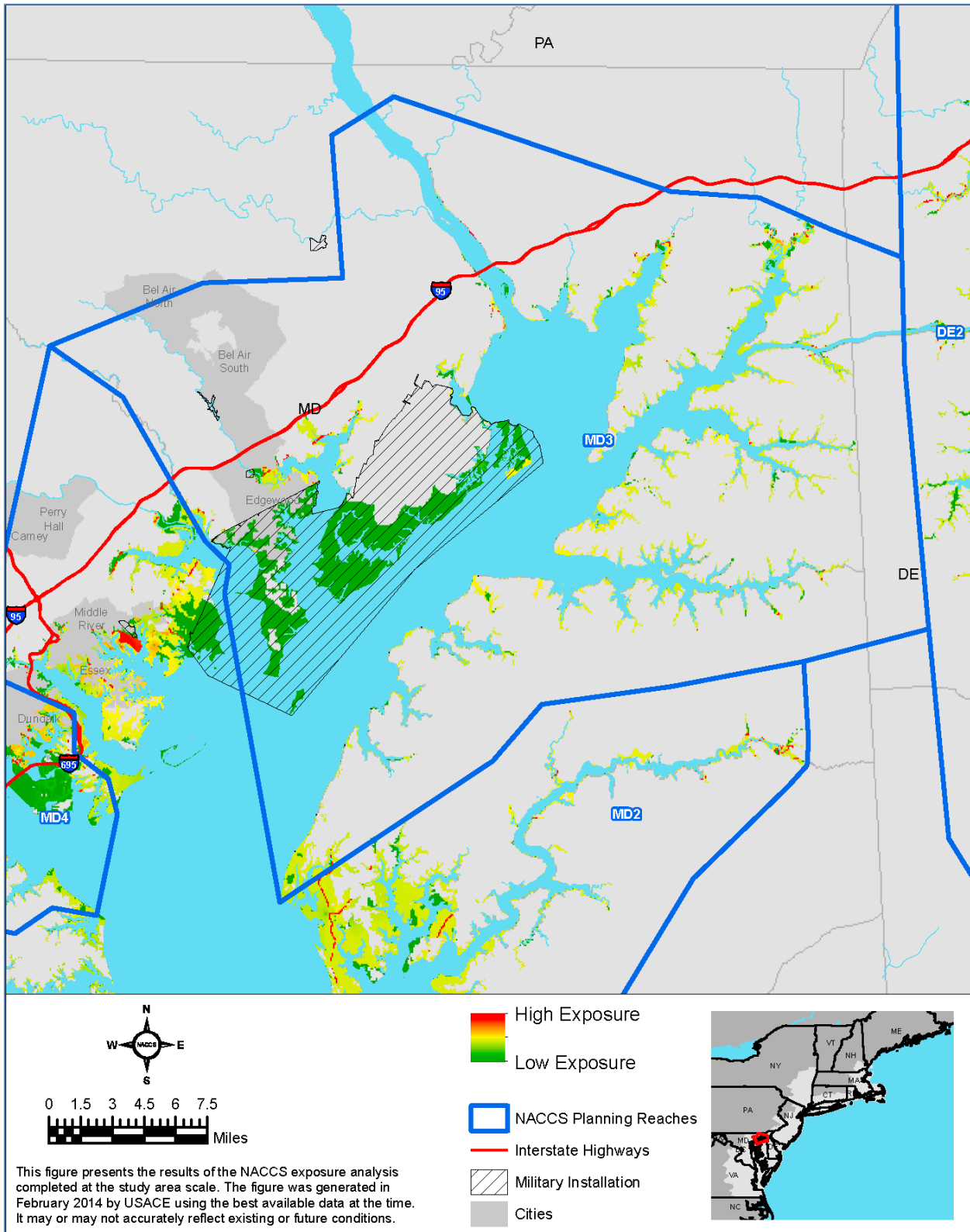


Figure If-39: Population and Infrastructure Exposure Index (MD3)

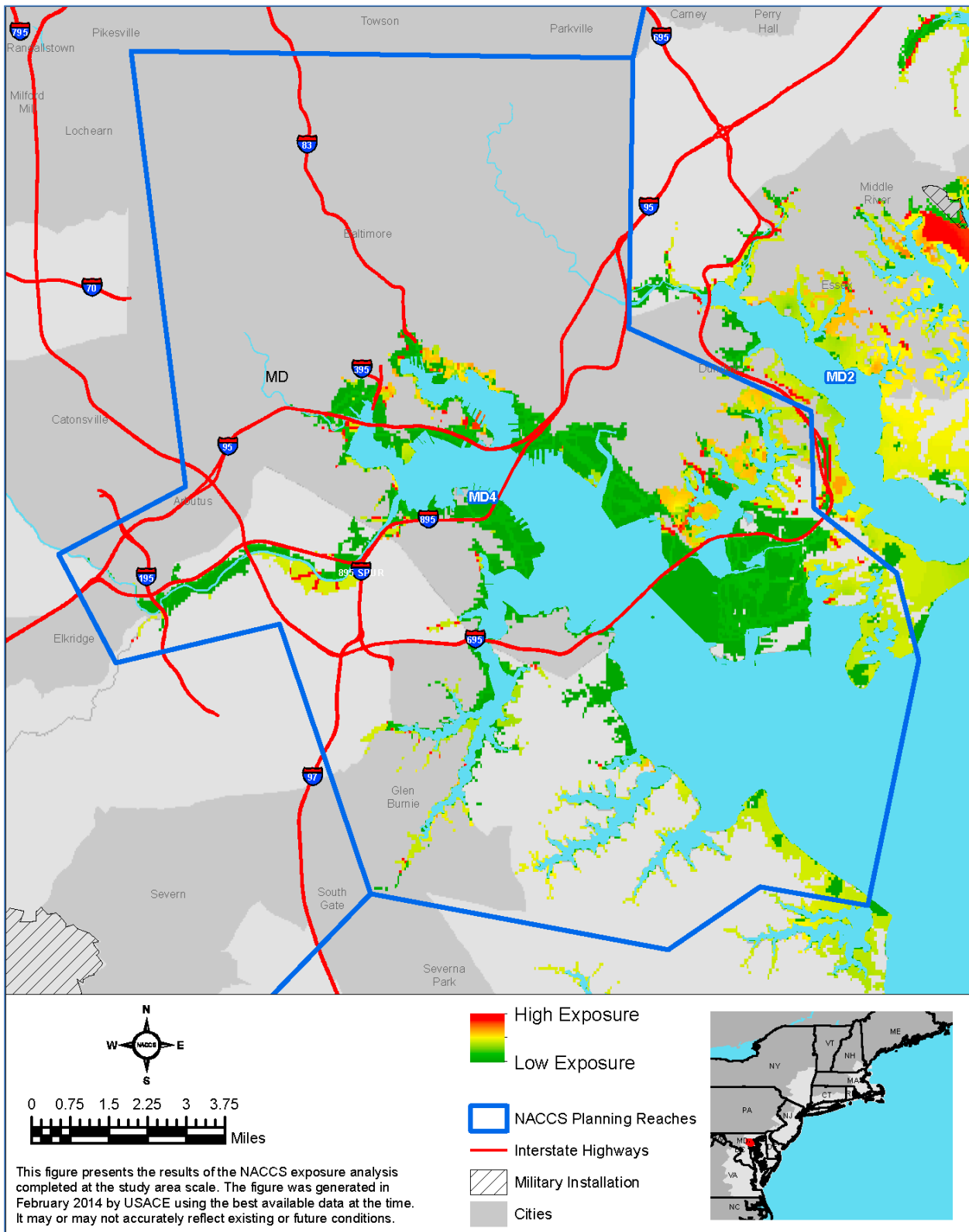


Figure If-40: Population and Infrastructure Exposure Index (MD4)



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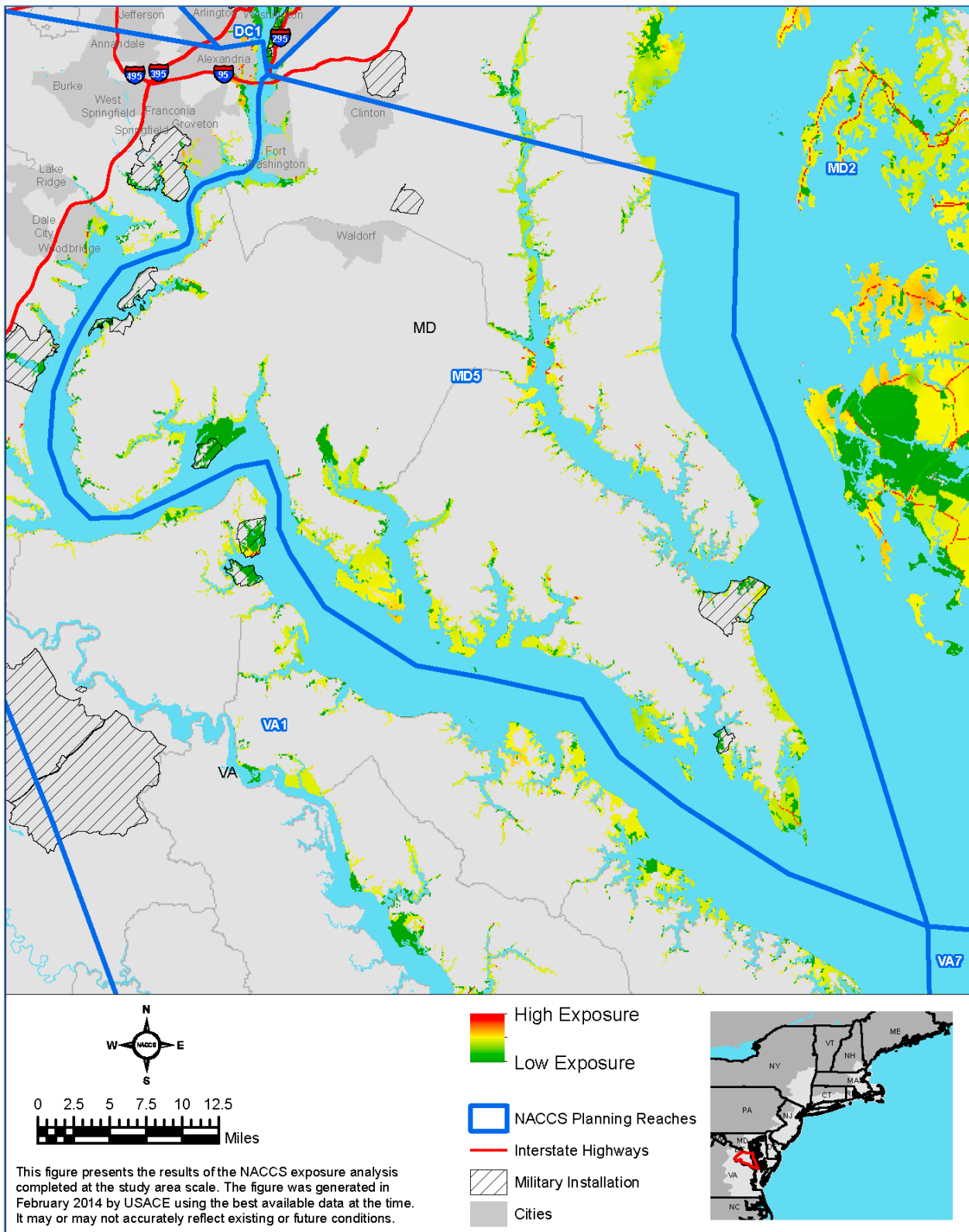


Figure If-41: Population and Infrastructure Exposure Index (MD5)

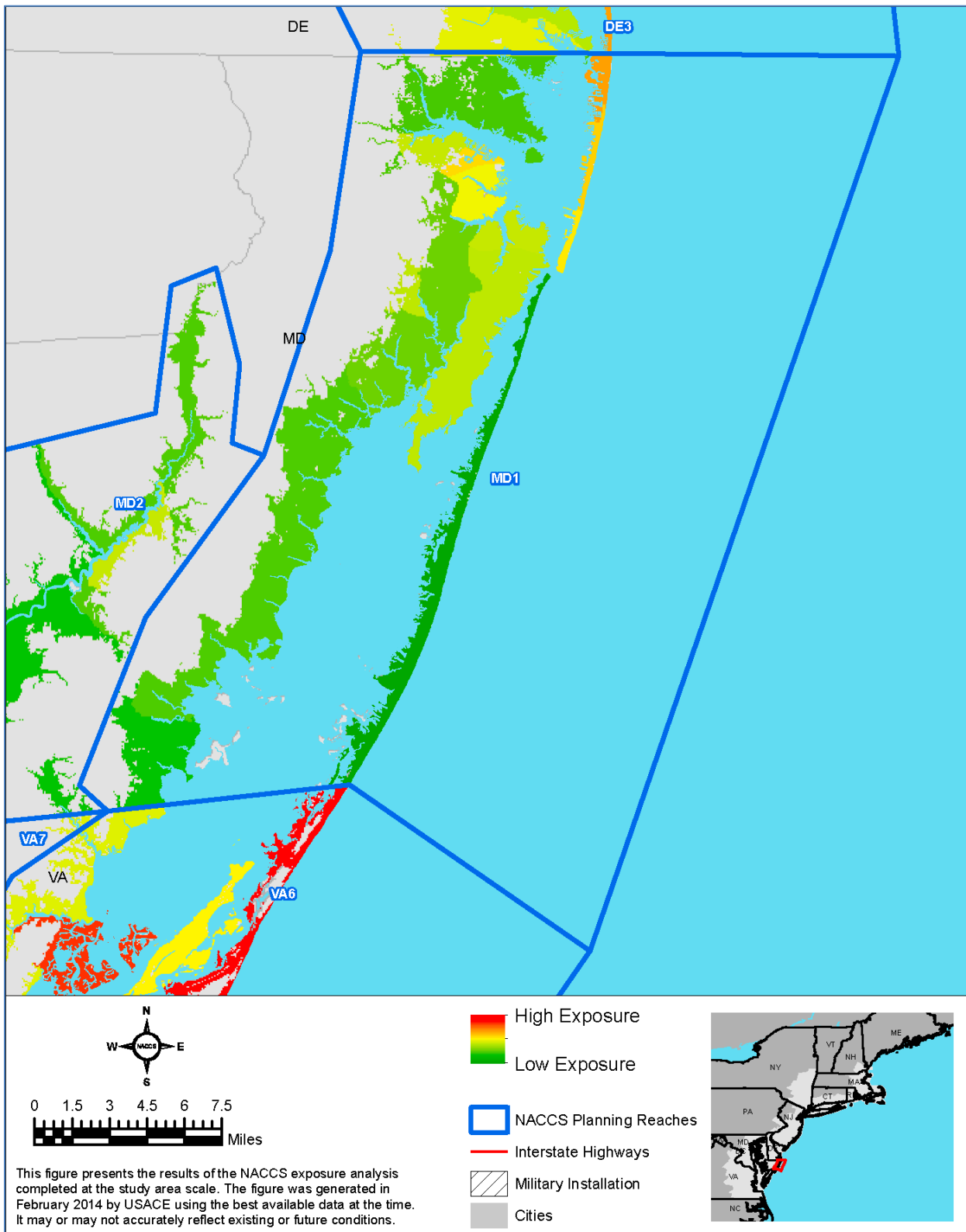


Figure If-42: Social Vulnerability Characterization Exposure Index (MD1)



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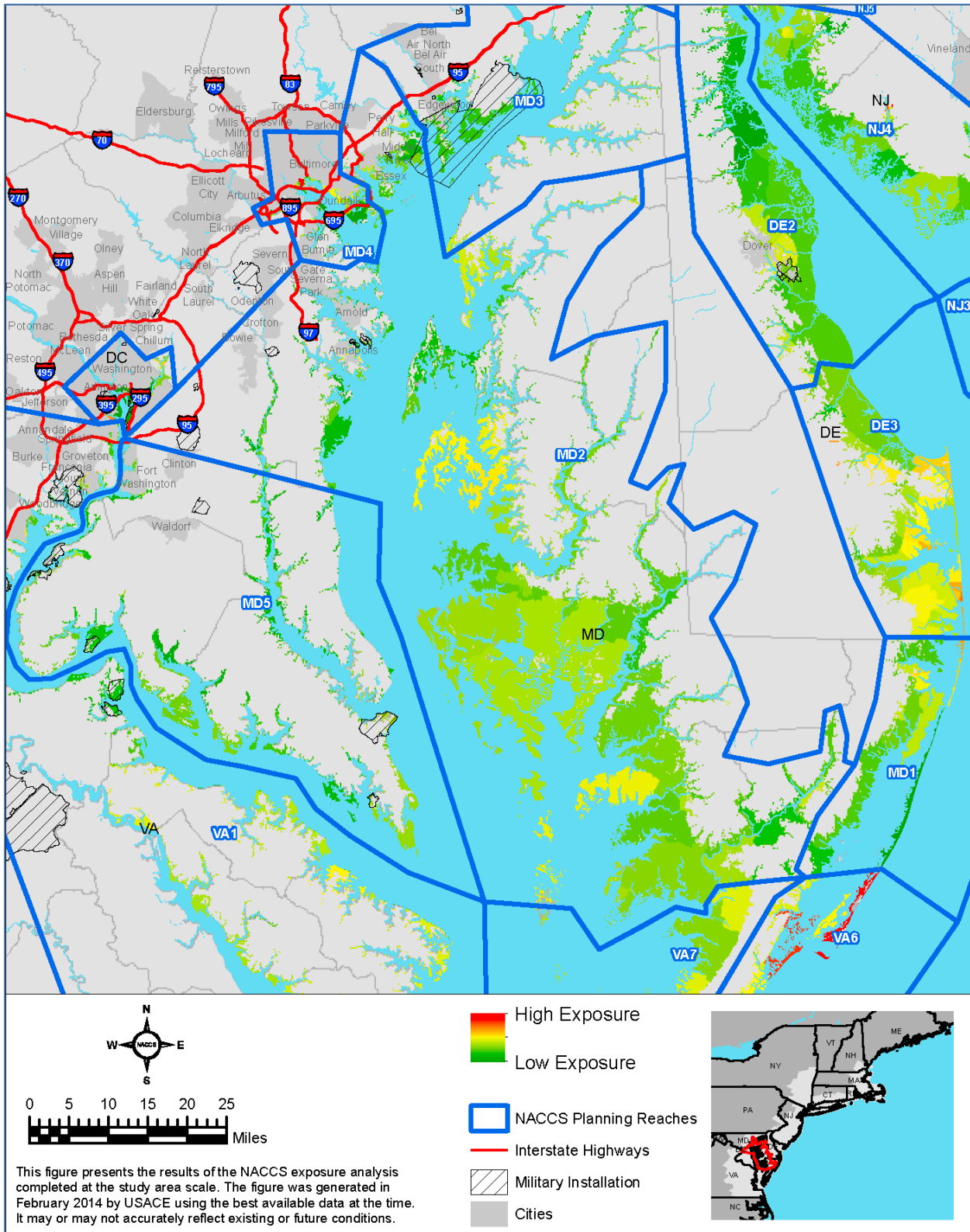


Figure 11f-43: Social Vulnerability Characterization Exposure Index (MD2)

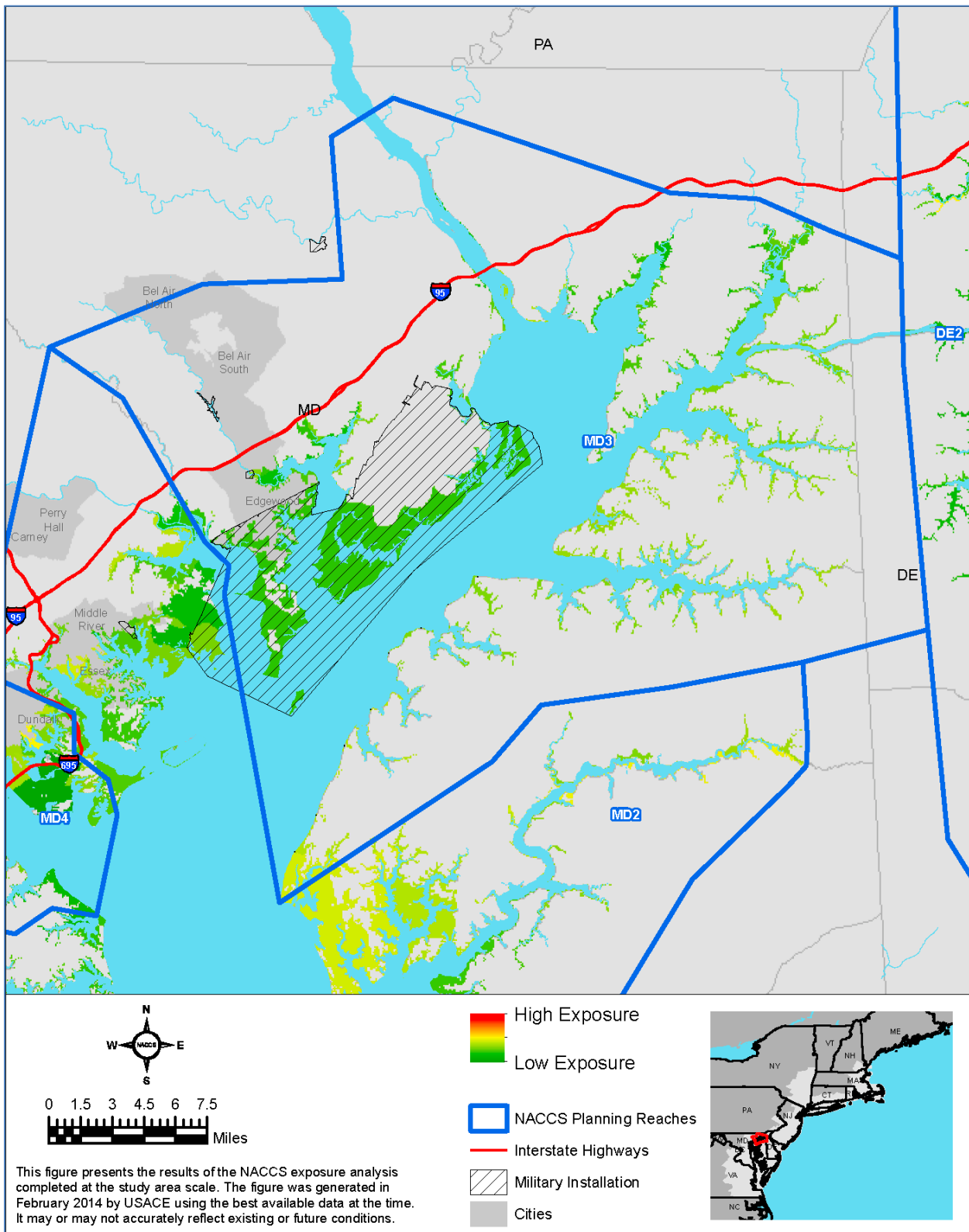


Figure If-44: Social Vulnerability Characterization Exposure Index (MD3)



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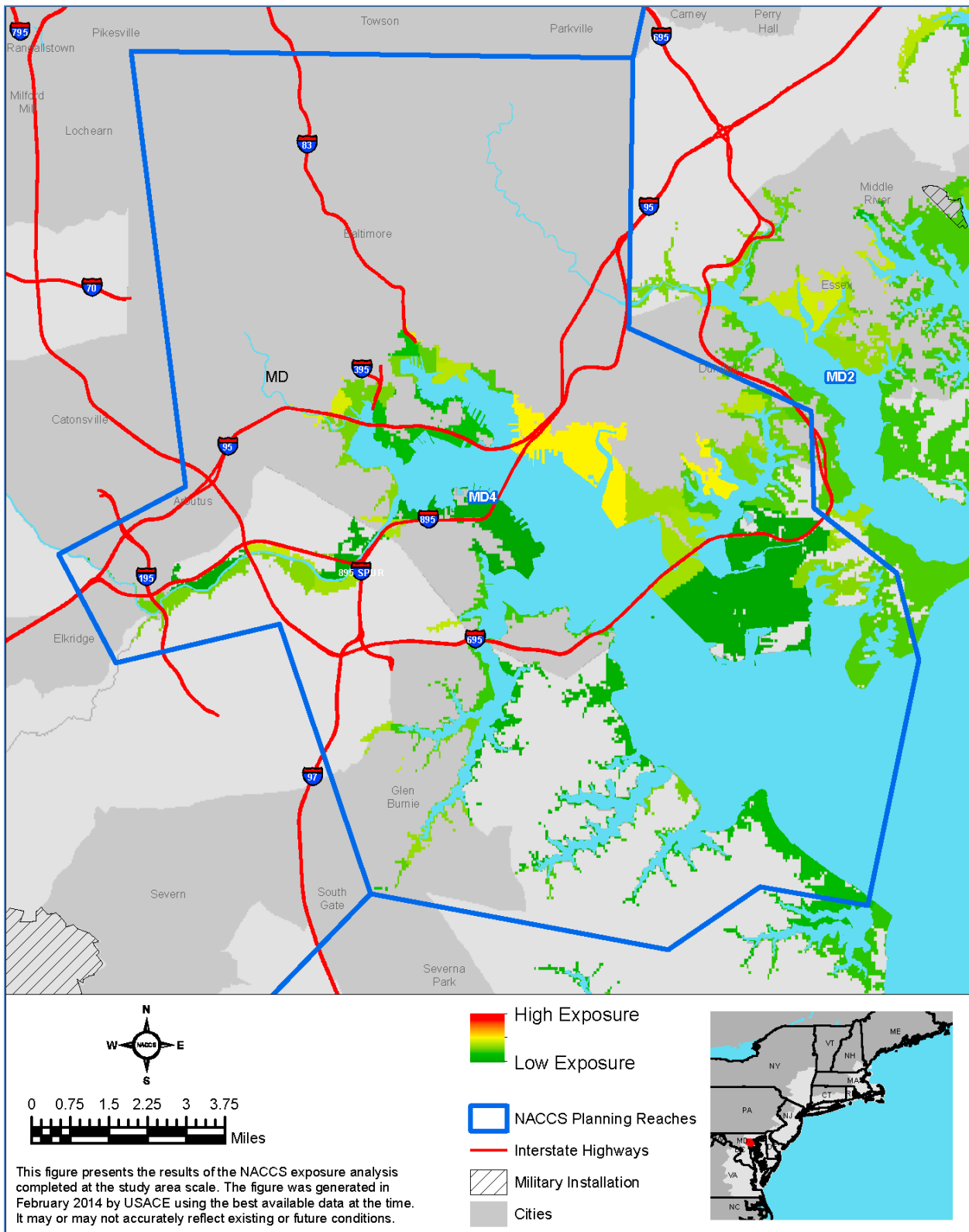


Figure 11f-45: Social Vulnerability Characterization Exposure Index (MD4)

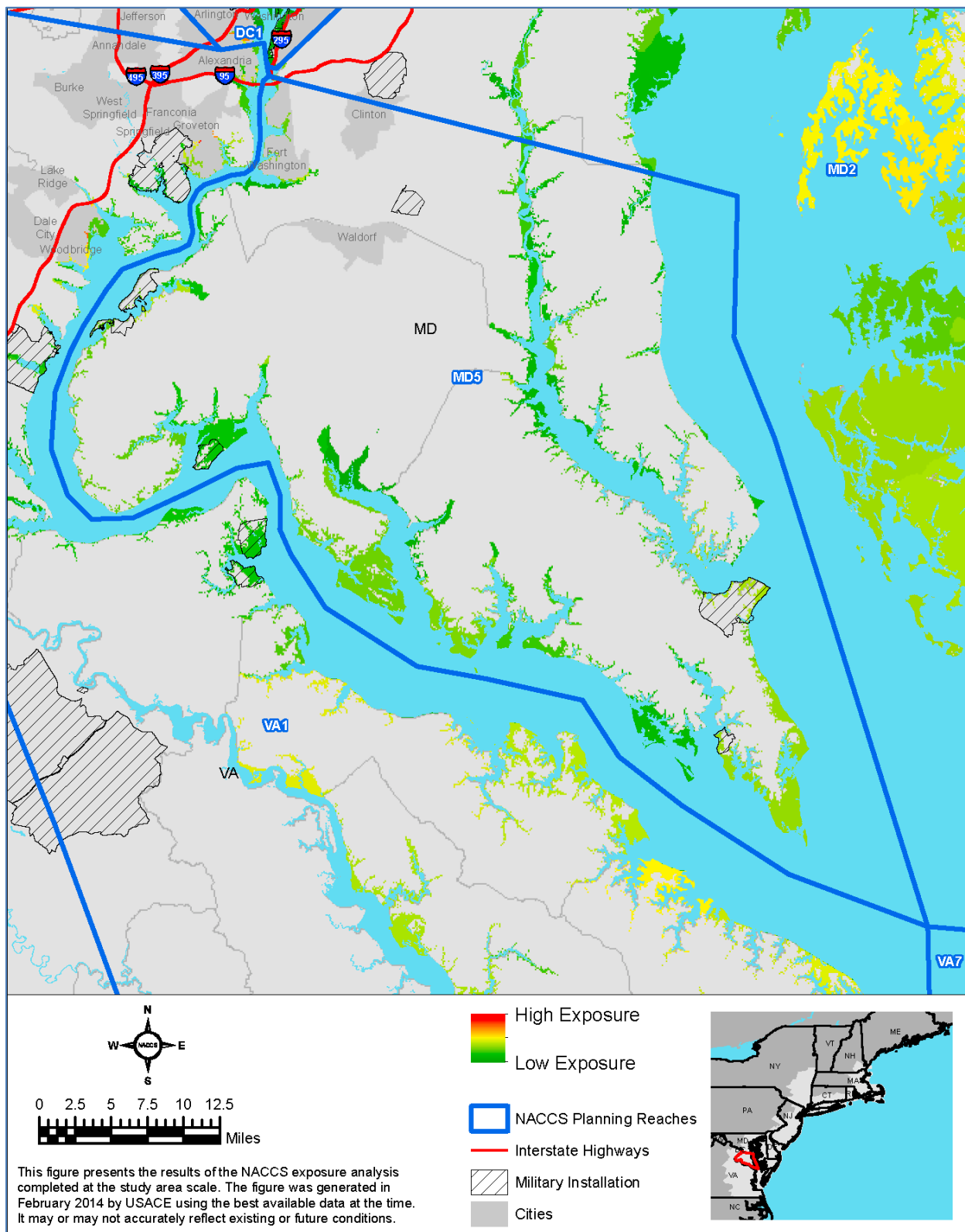


Figure If-46: Social Vulnerability Characterization Exposure Index (MD5)

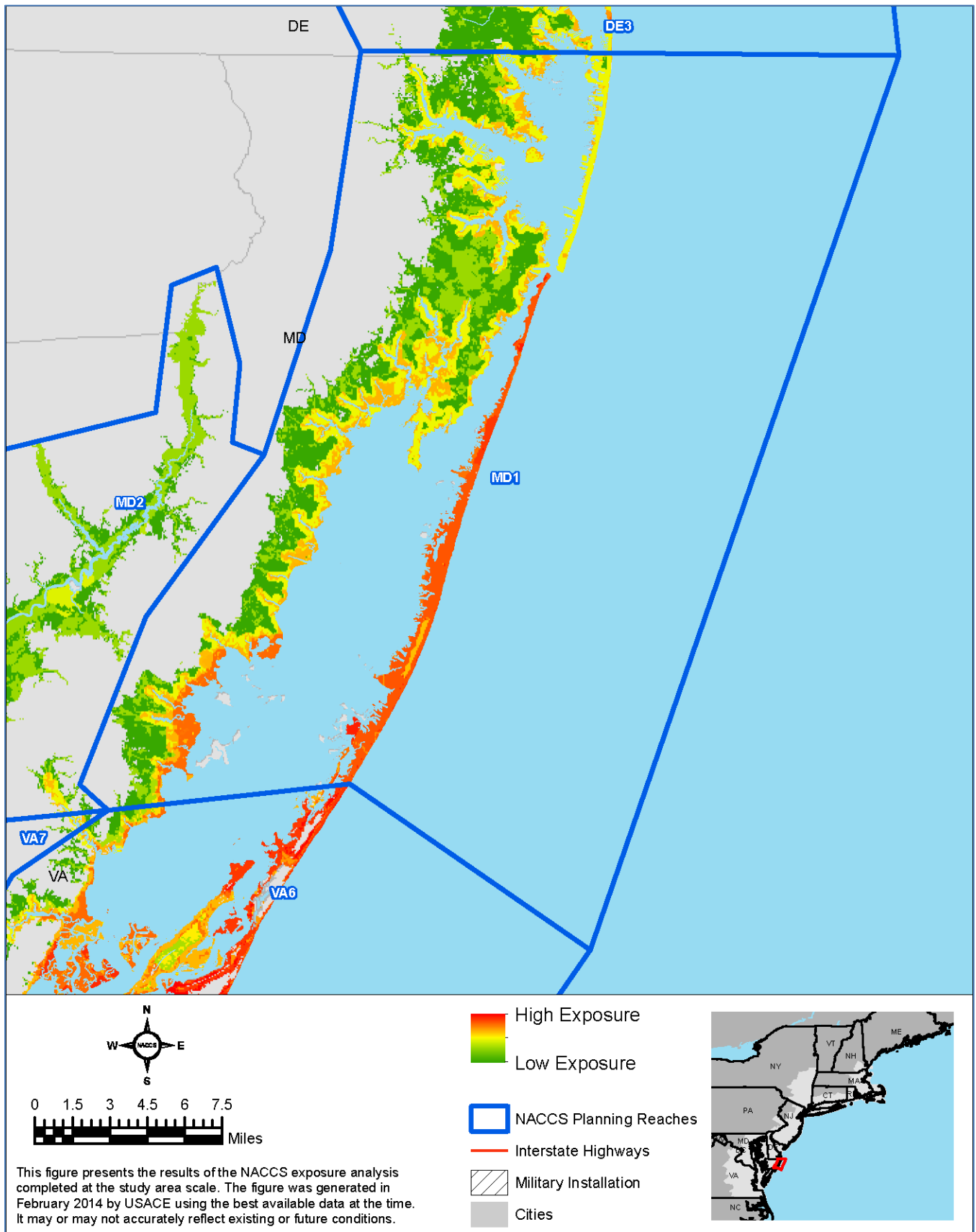
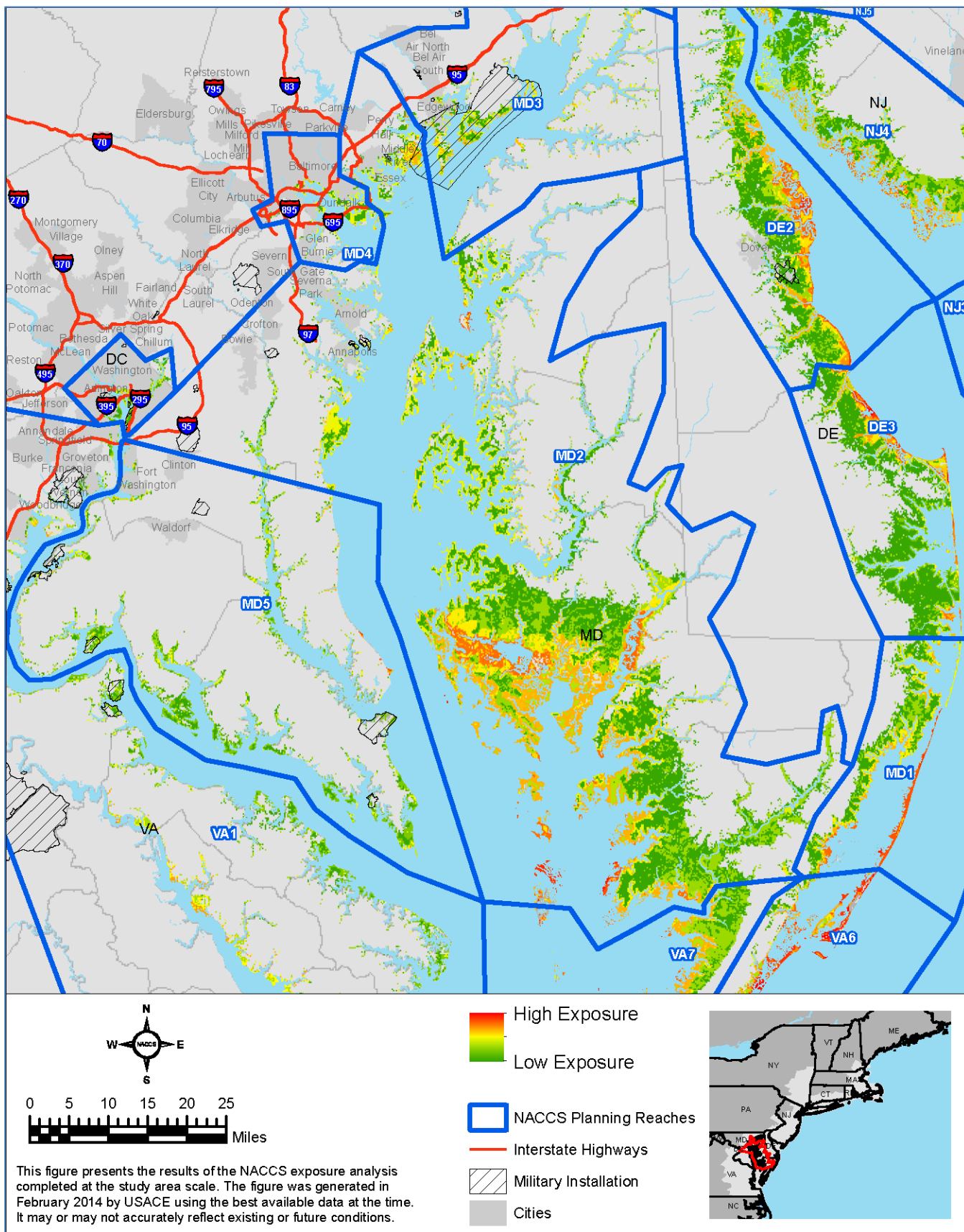


Figure IIf-47: Environmental and Cultural Resources Exposure Index (MD1)



This figure presents the results of the NACCS exposure analysis completed at the study area scale. The figure was generated in February 2014 by USACE using the best available data at the time. It may or may not accurately reflect existing or future conditions.

Figure 11f-48: Environmental and Cultural Resources Exposure Index (MD2)

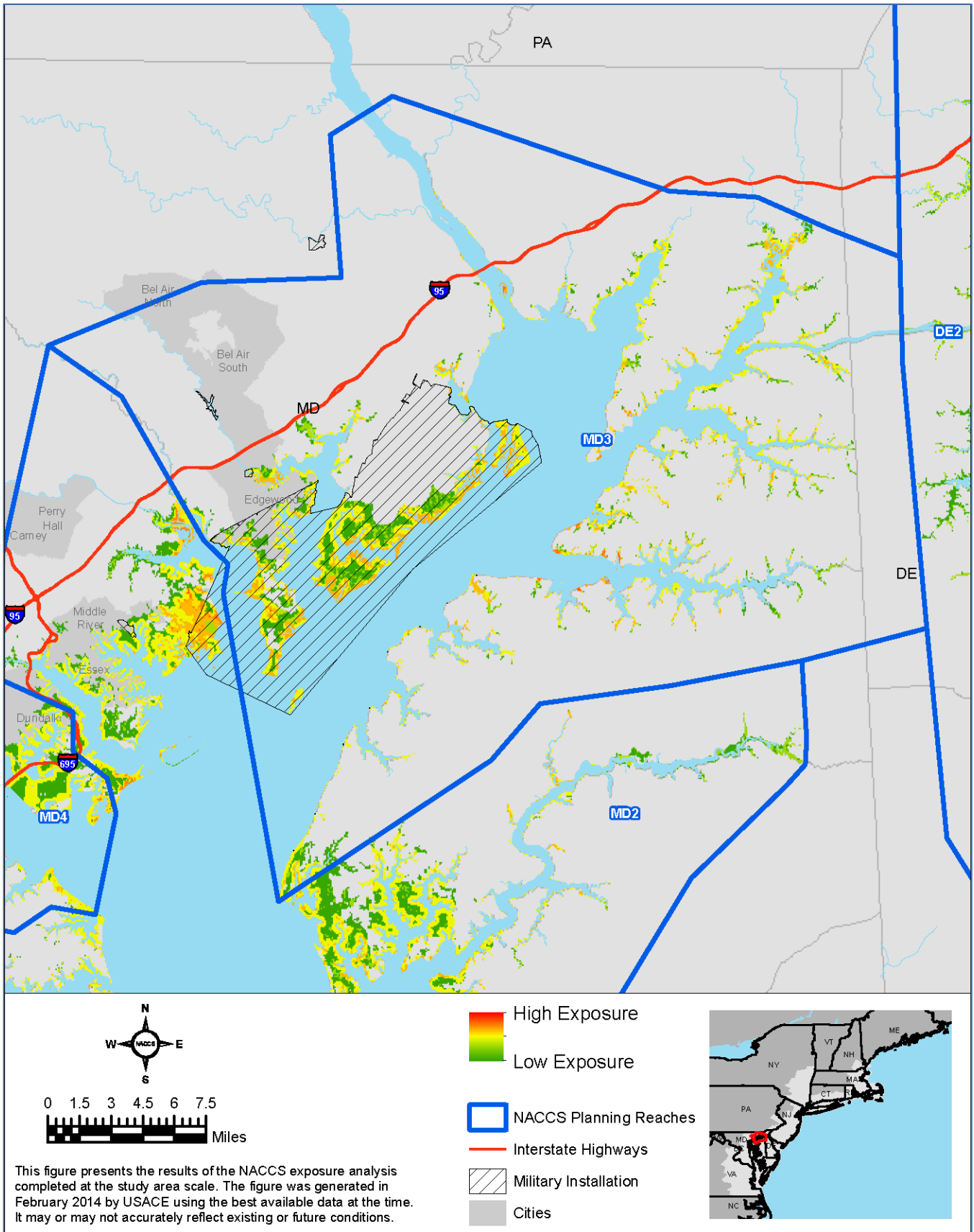


Figure 11f-49: Environmental and Cultural Resources Exposure Index (MD3)

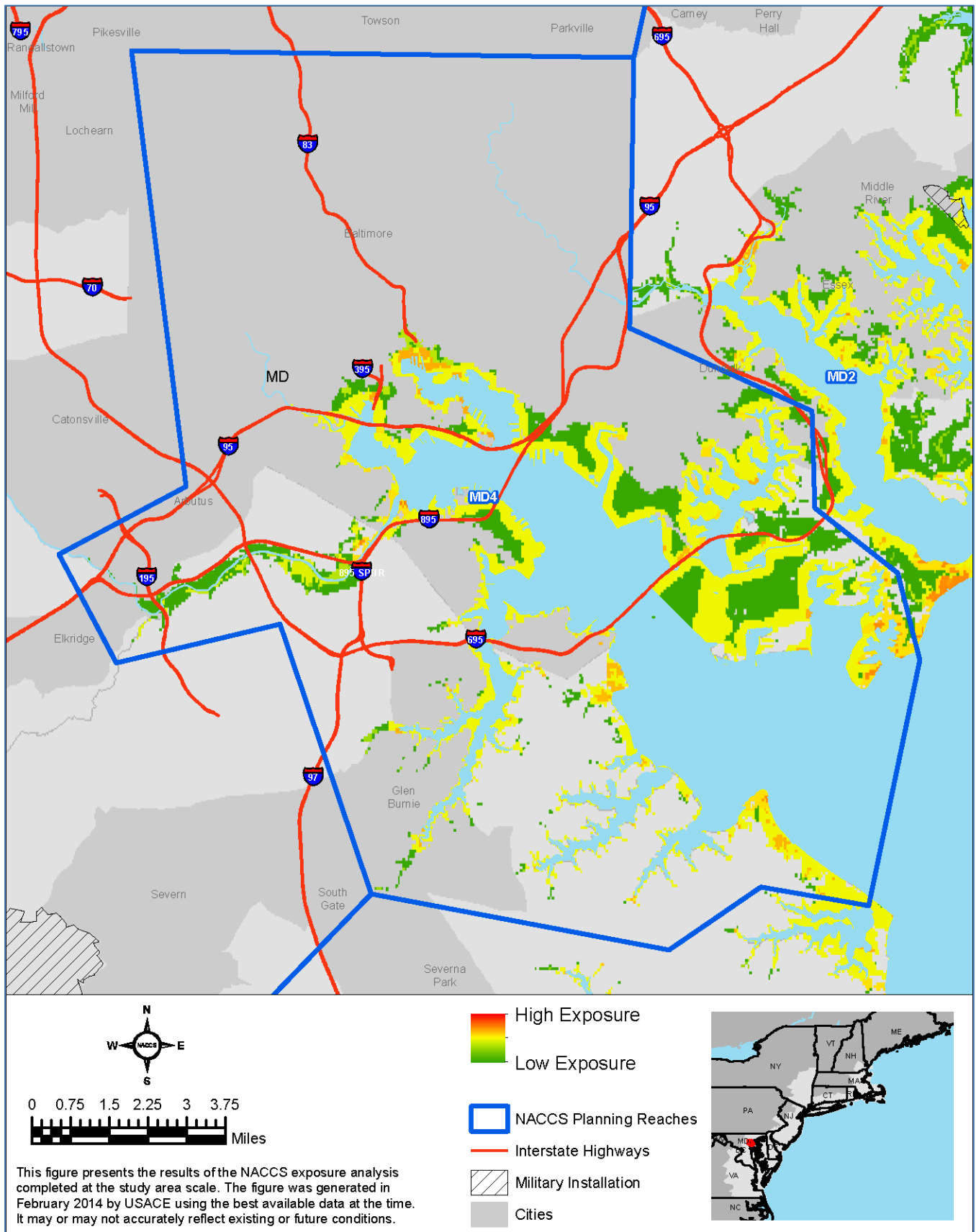


Figure IIf-50: Environmental and Cultural Resources Exposure Index (MD4)



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United States Army Corps of Engineers

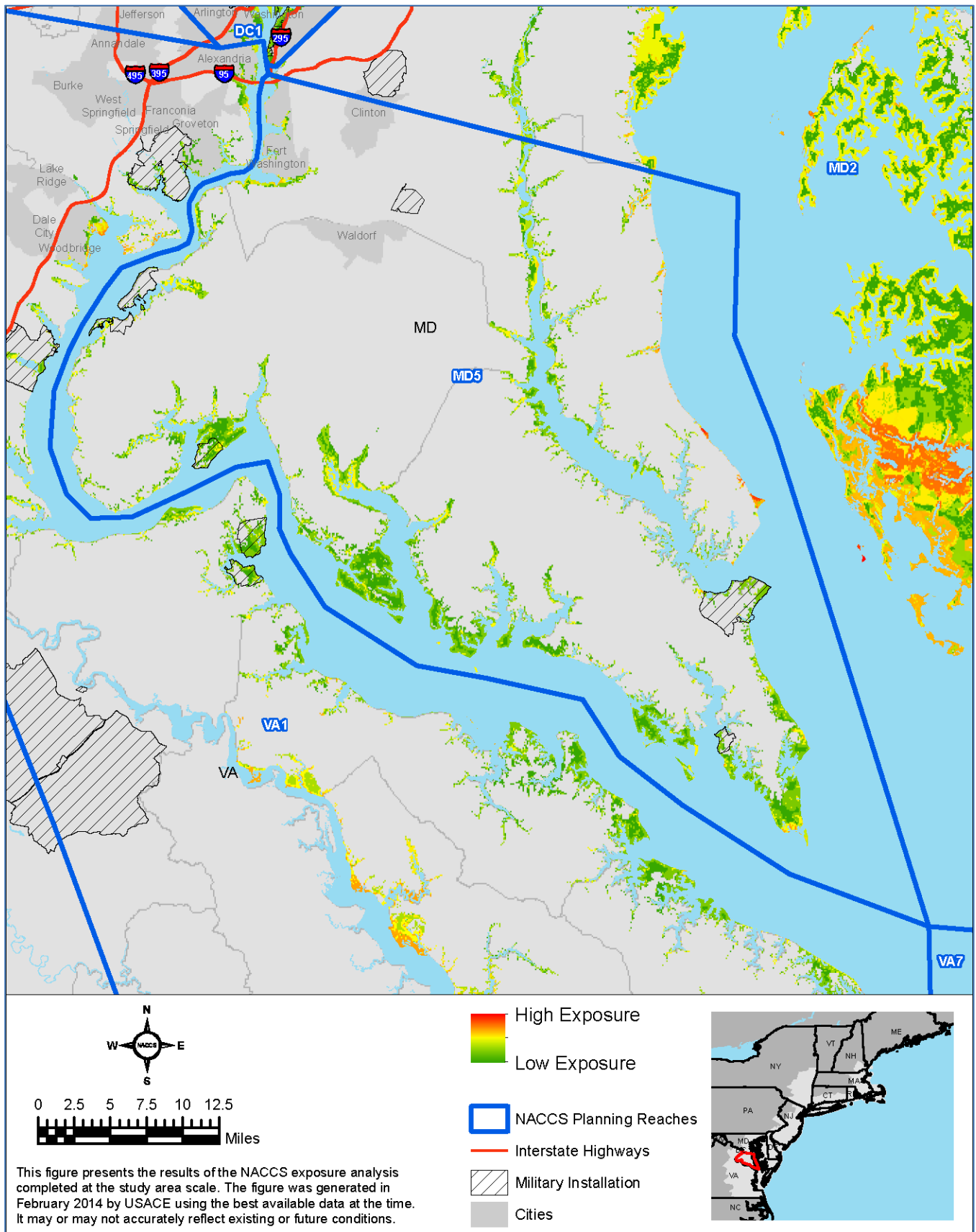


Figure IIf-51: Environmental and Cultural Resources Exposure Index (MD5)

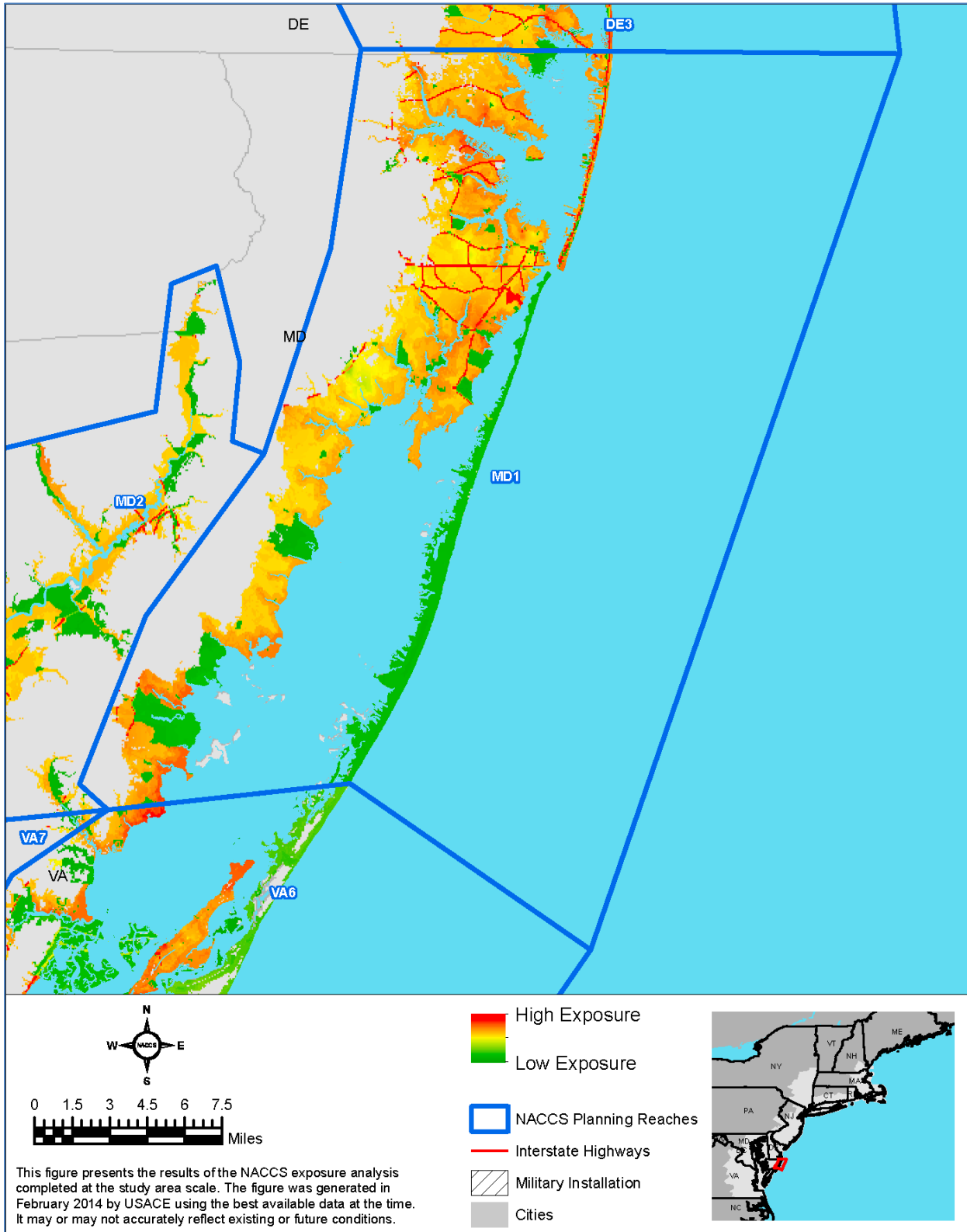


Figure IIf-52: Composite Exposure Index (MD1)



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United States Army Corps of Engineers

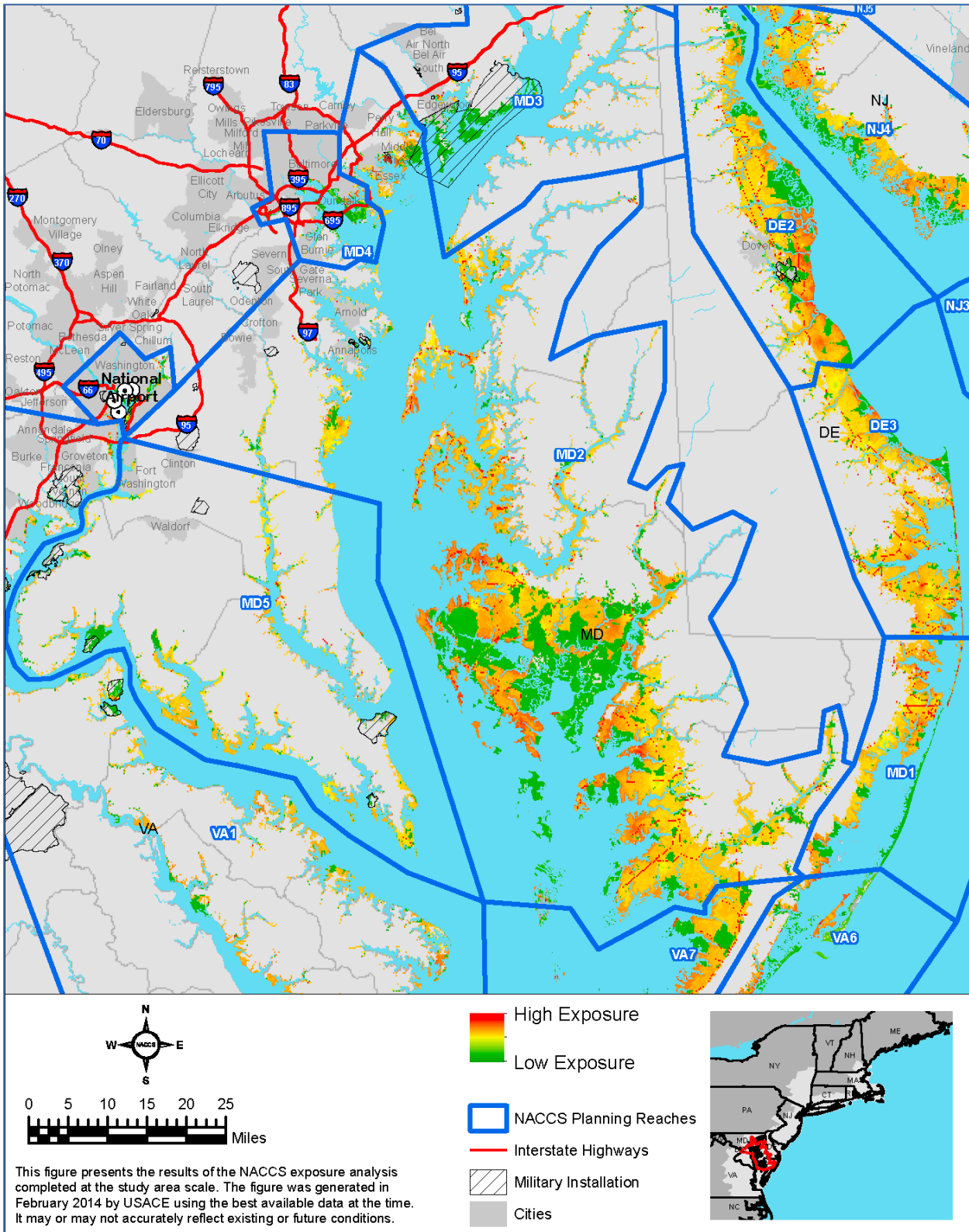


Figure 11f-53: Composite Exposure Index (MD2)

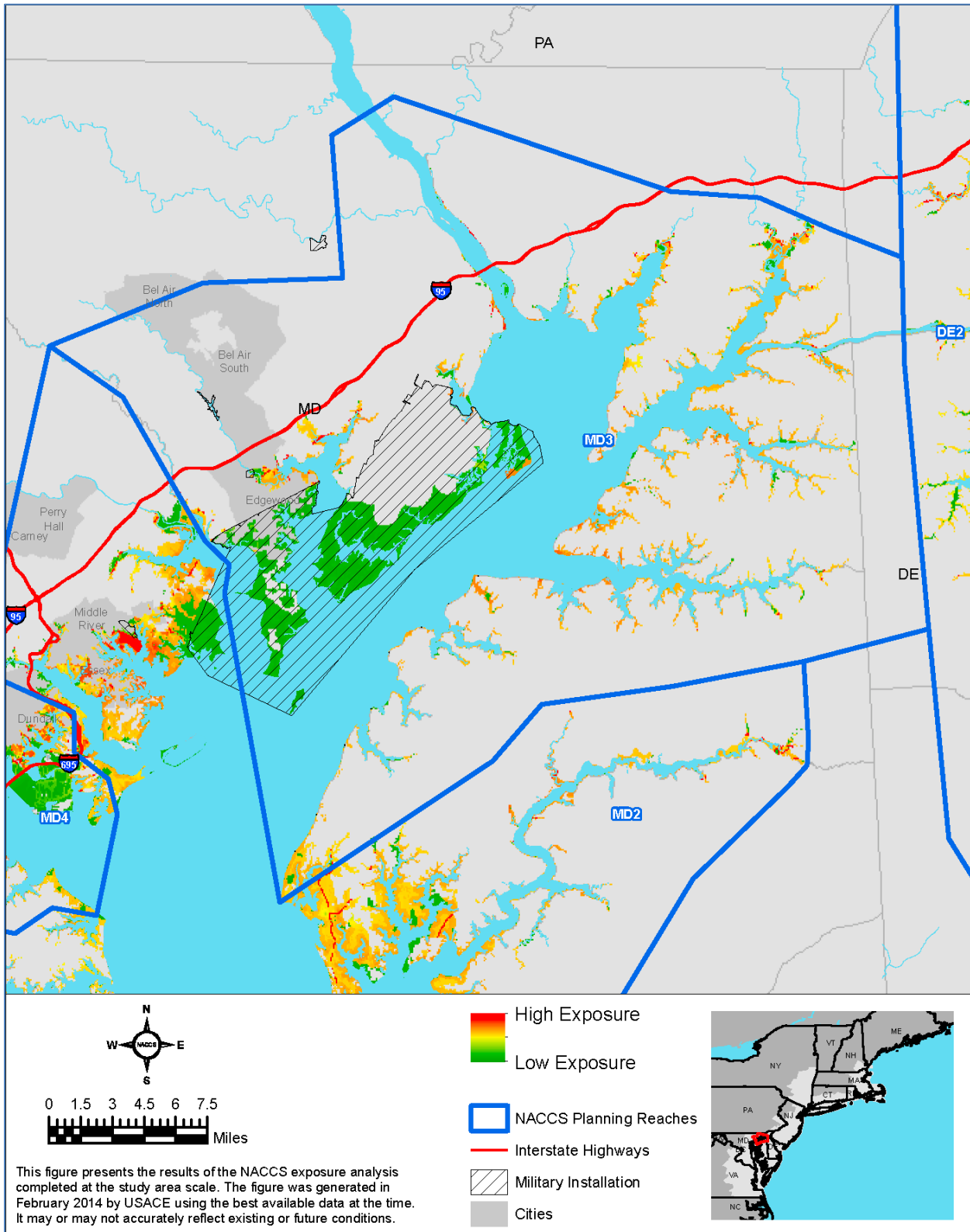


Figure If-54: Composite Exposure Index (MD3)



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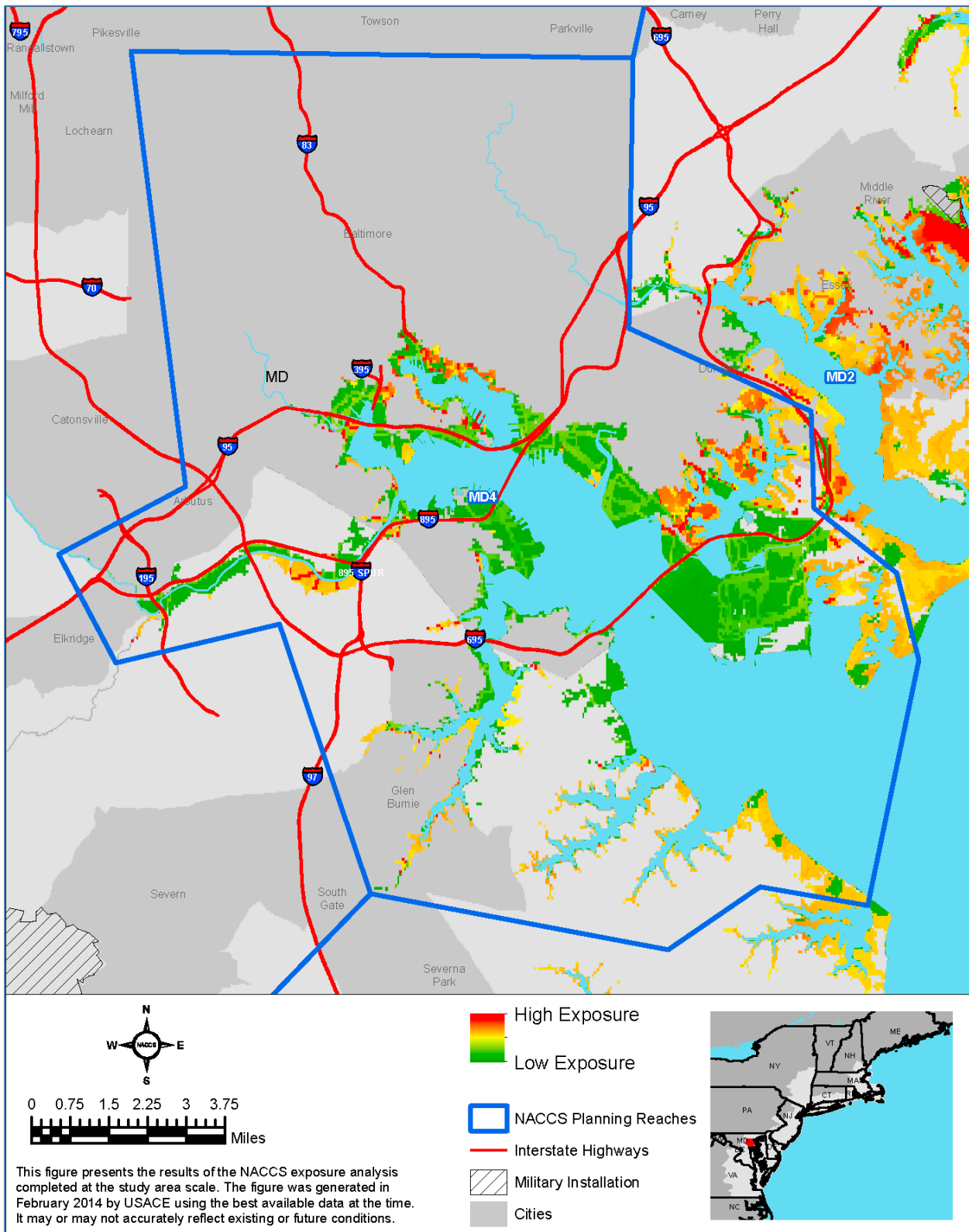


Figure 11f-55: Composite Exposure Index (MD4)

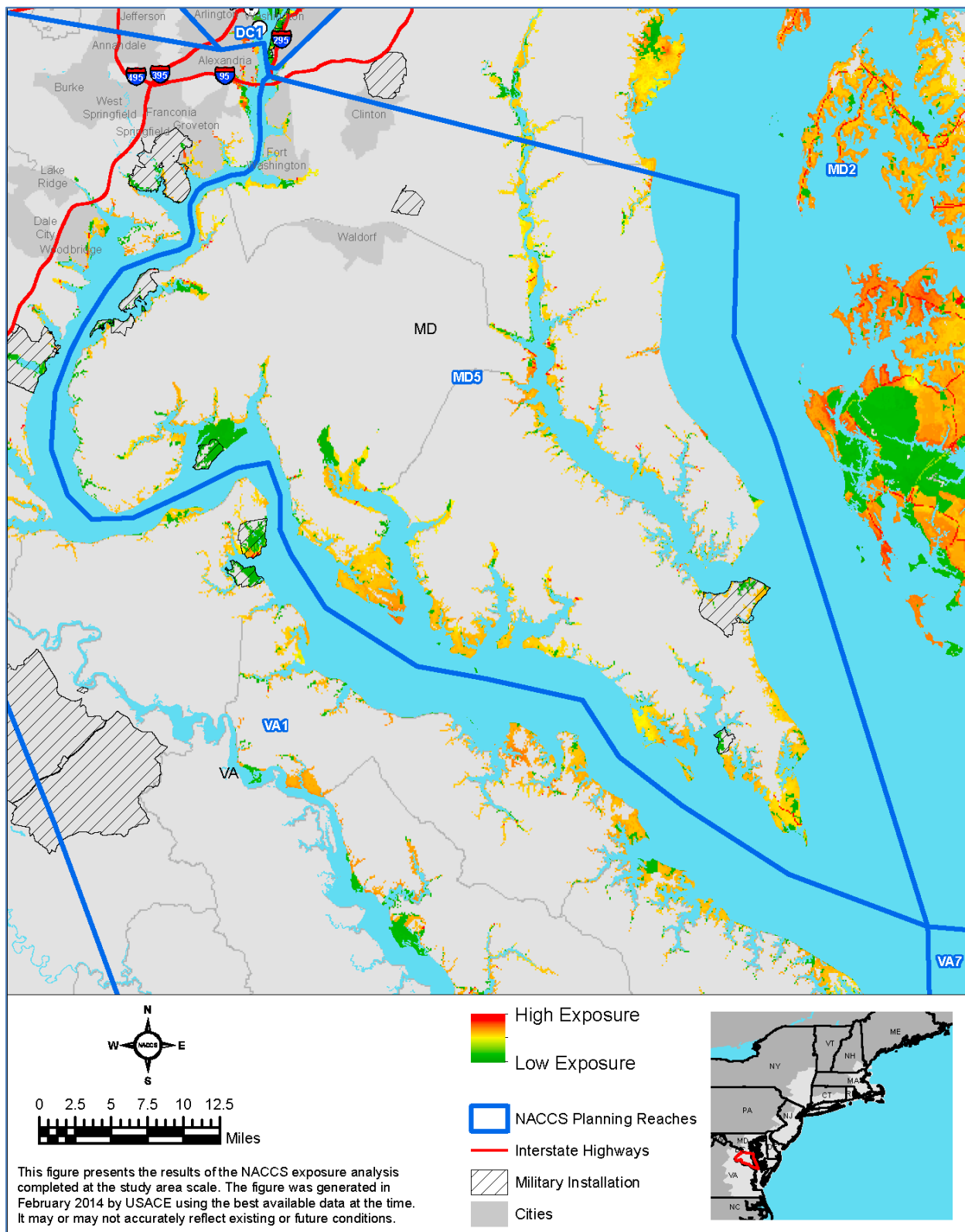


Figure If-56: Composite Exposure Index (MD5)

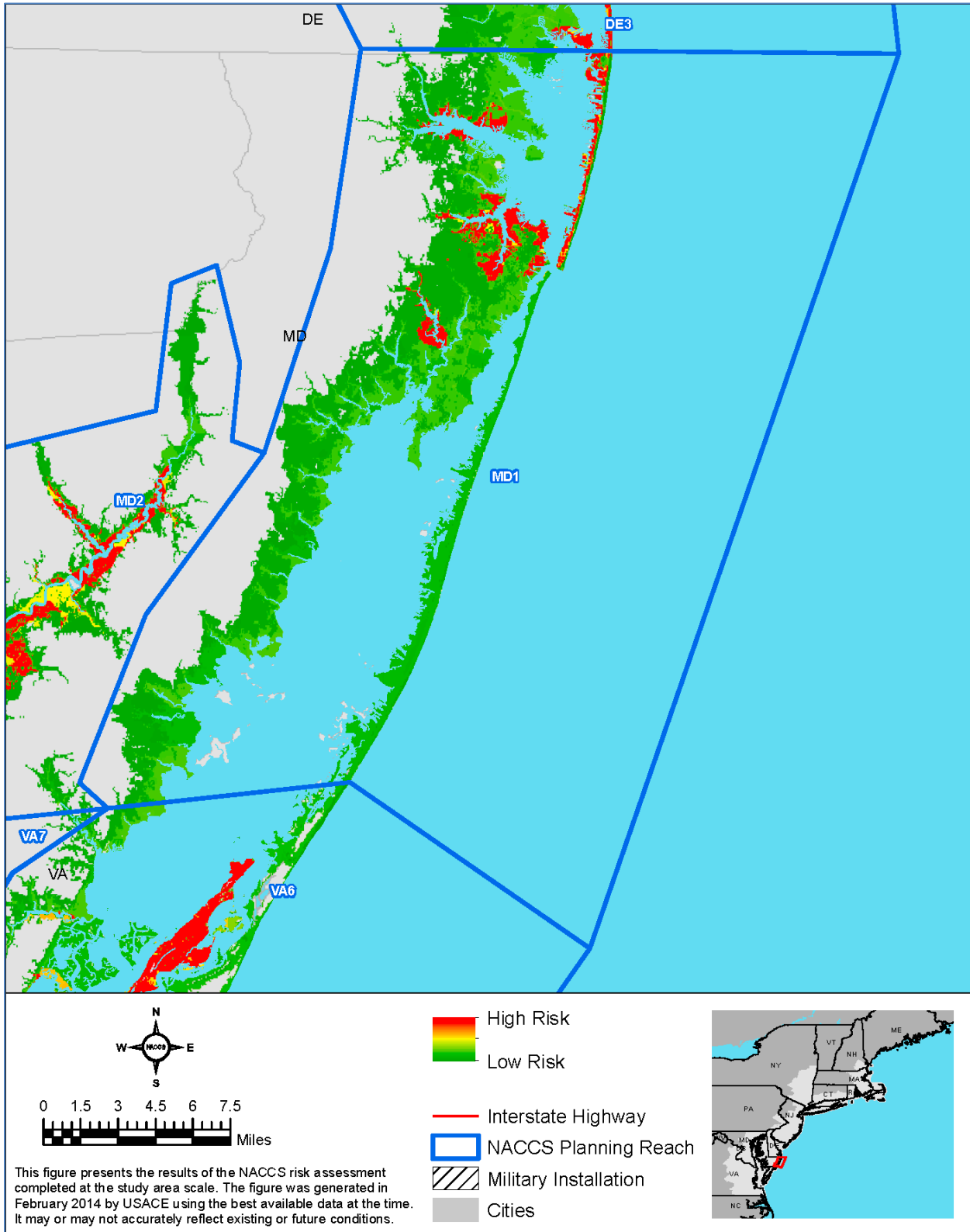


Figure IIf-57: Risk Assessment (MD1)

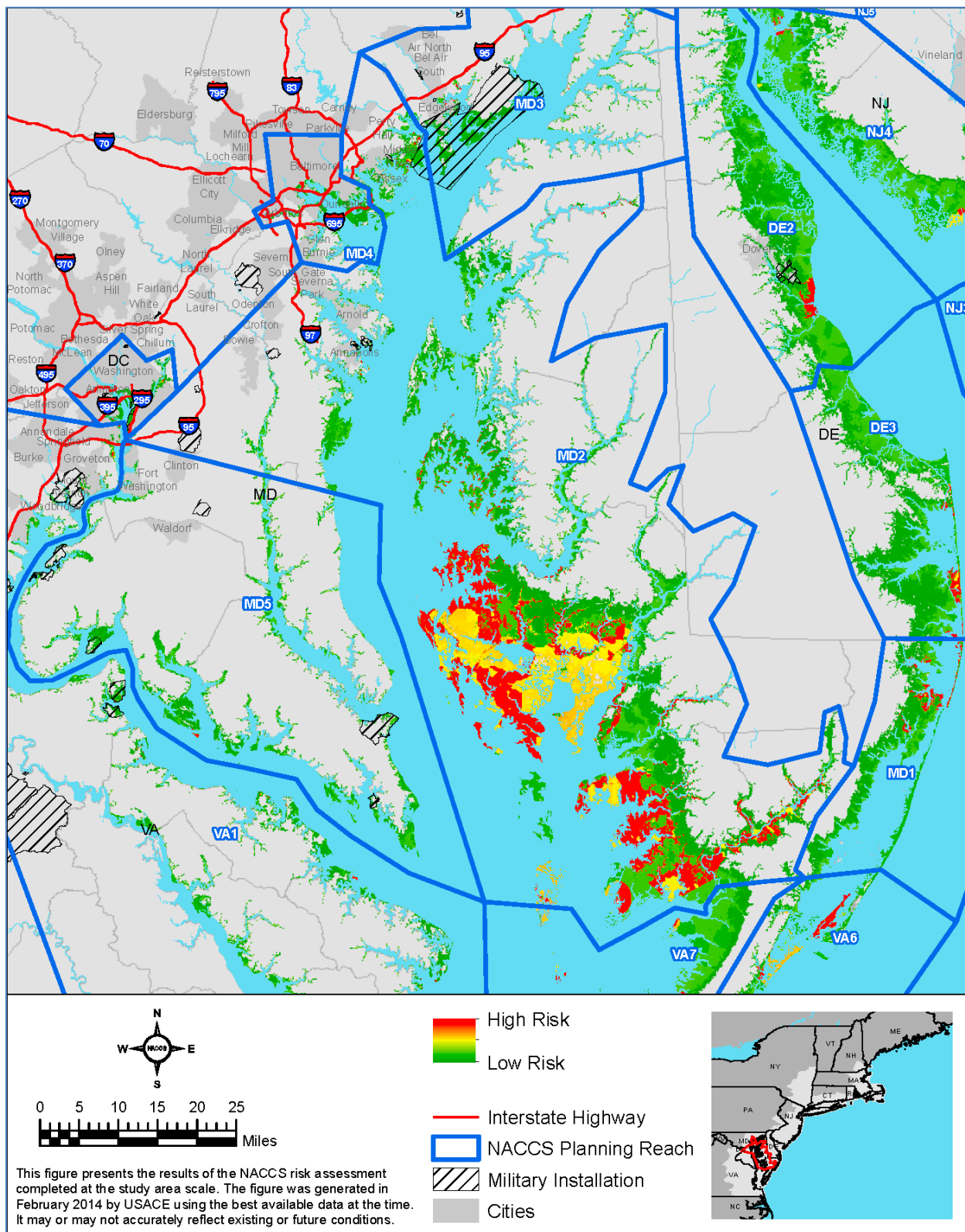


Figure If-58: Risk Assessment (MD2)



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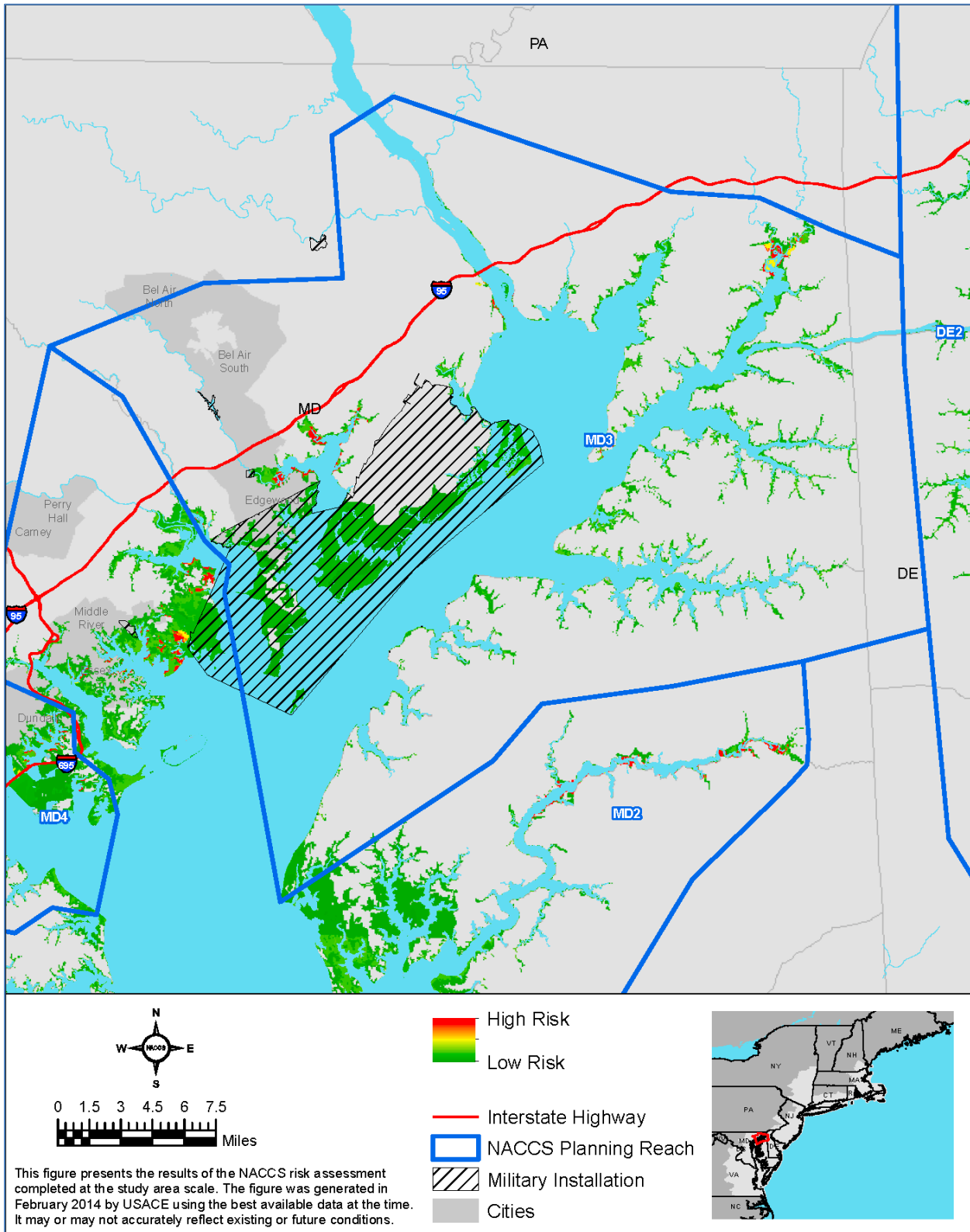


Figure If-59: Risk Assessment (MD3)

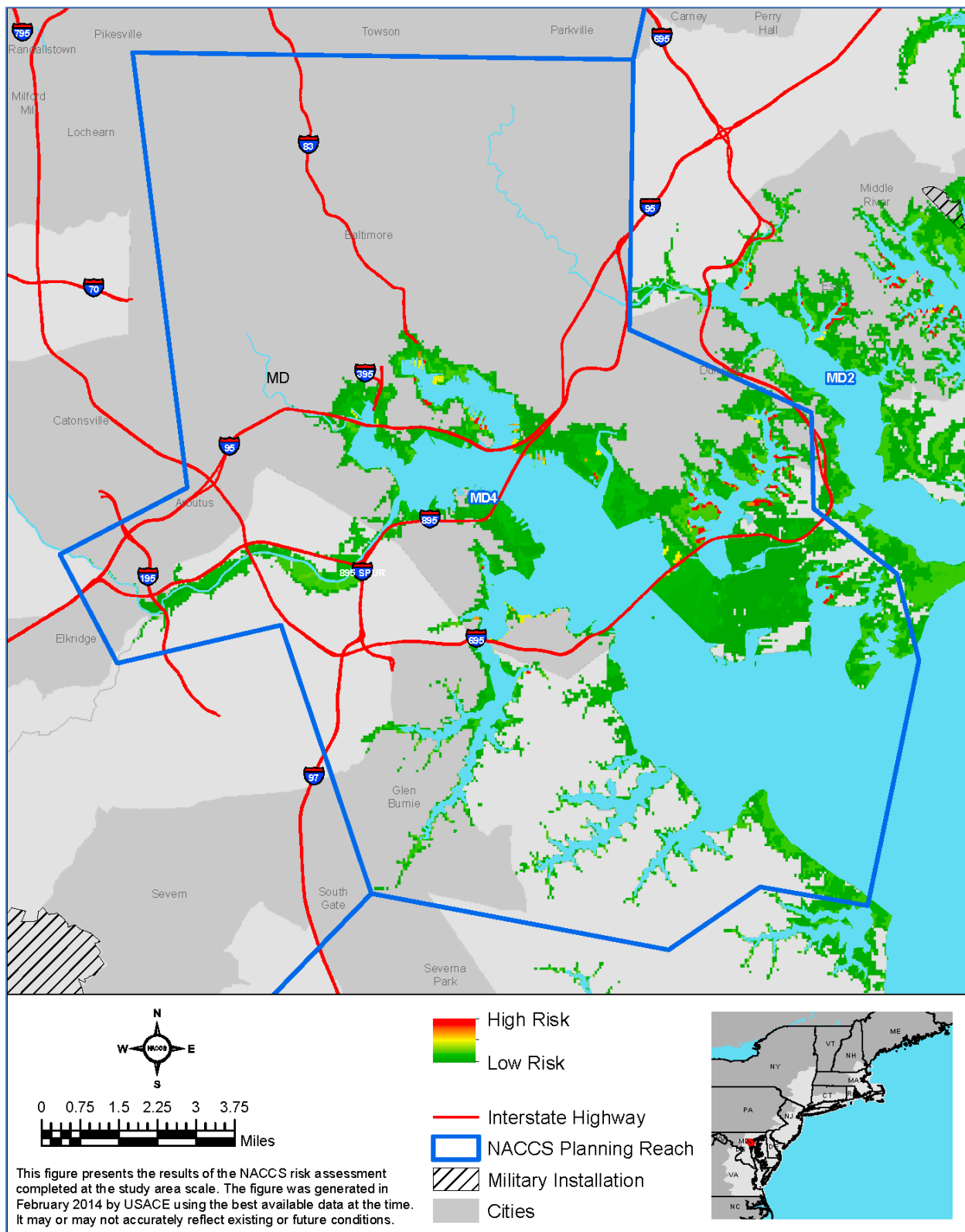


Figure 11f-60: Risk Assessment (MD4)



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United States Army Corps of Engineers

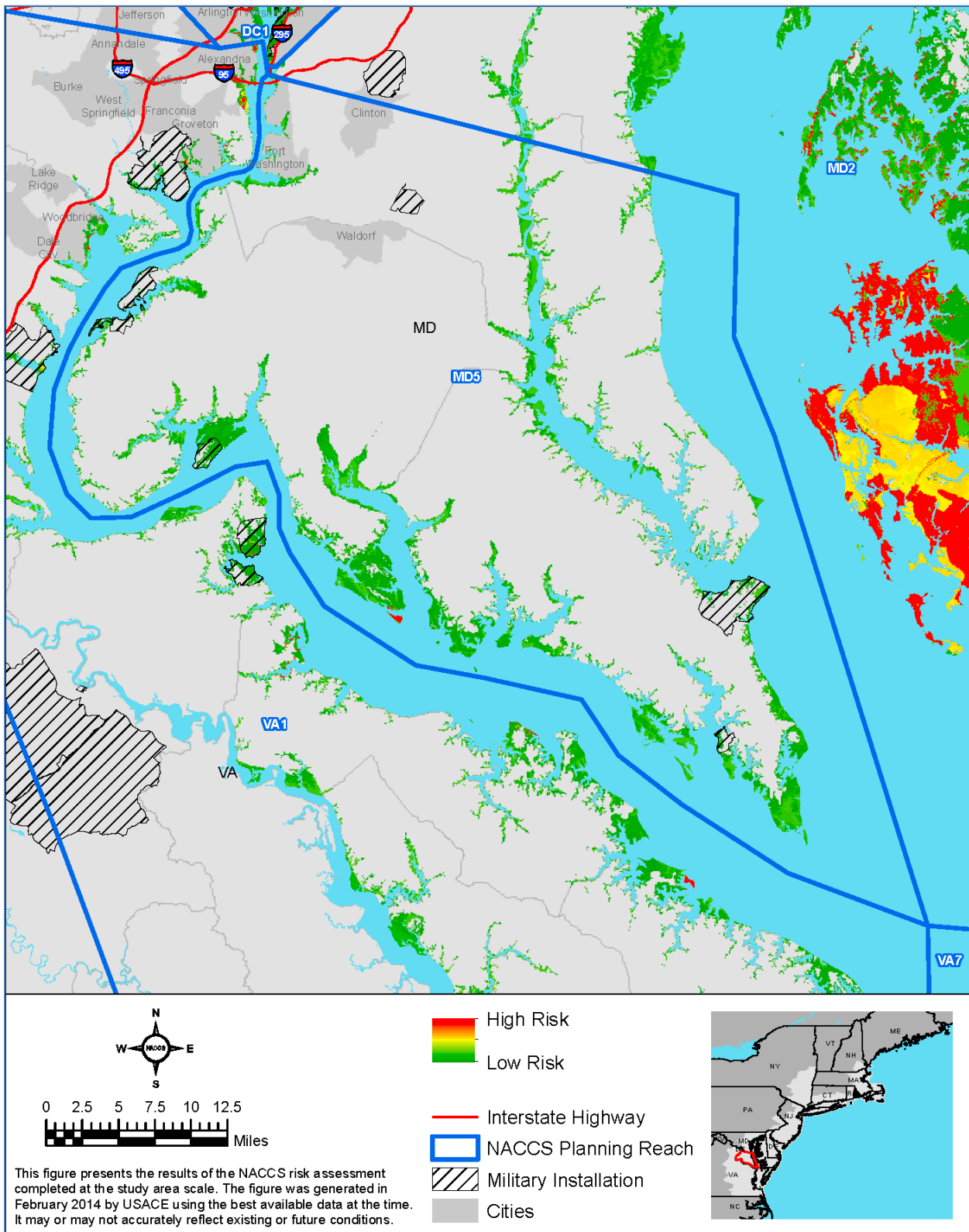


Figure If-61: Risk Assessment (MD5)

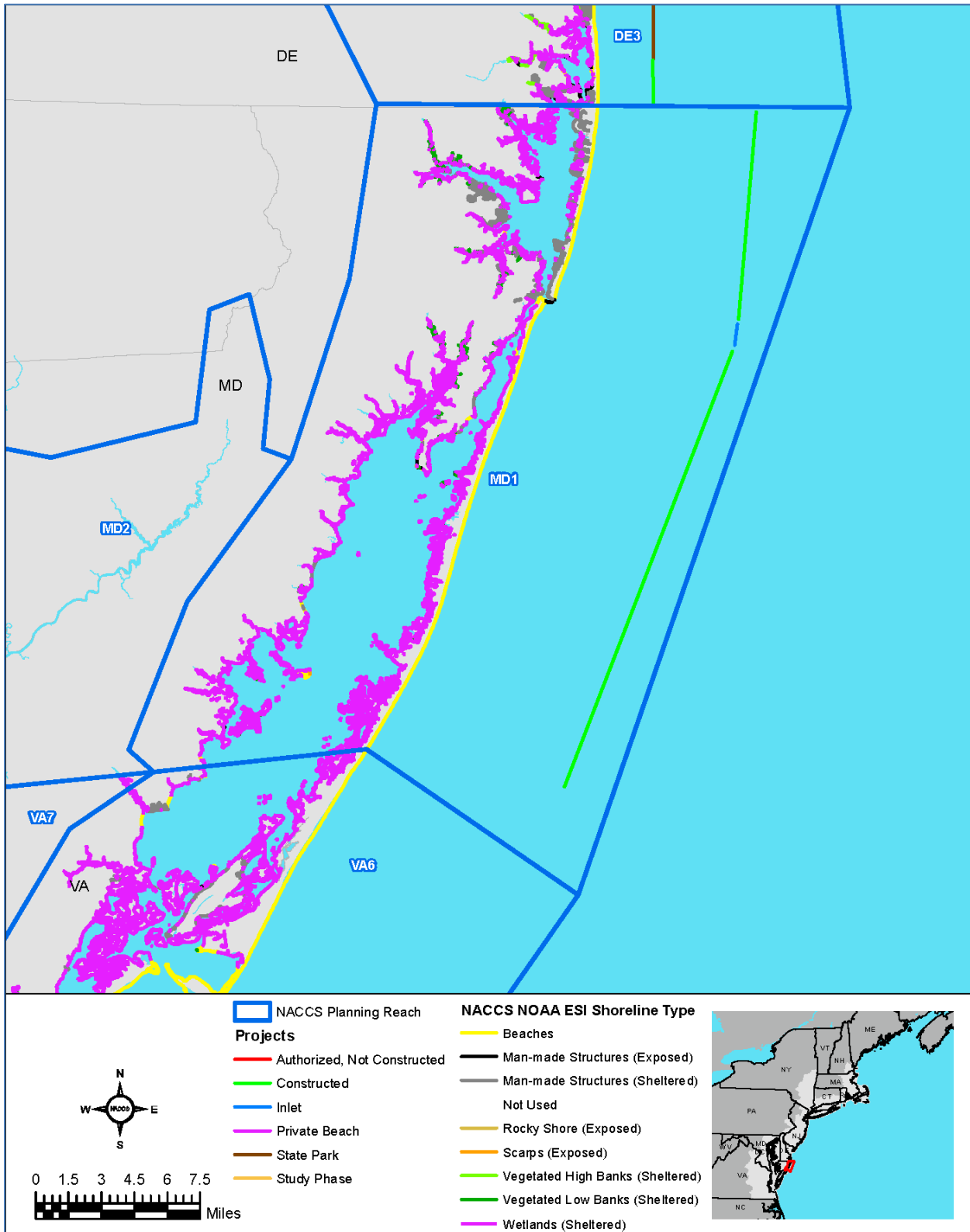


Figure If-62: Shoreline Types (MD1)

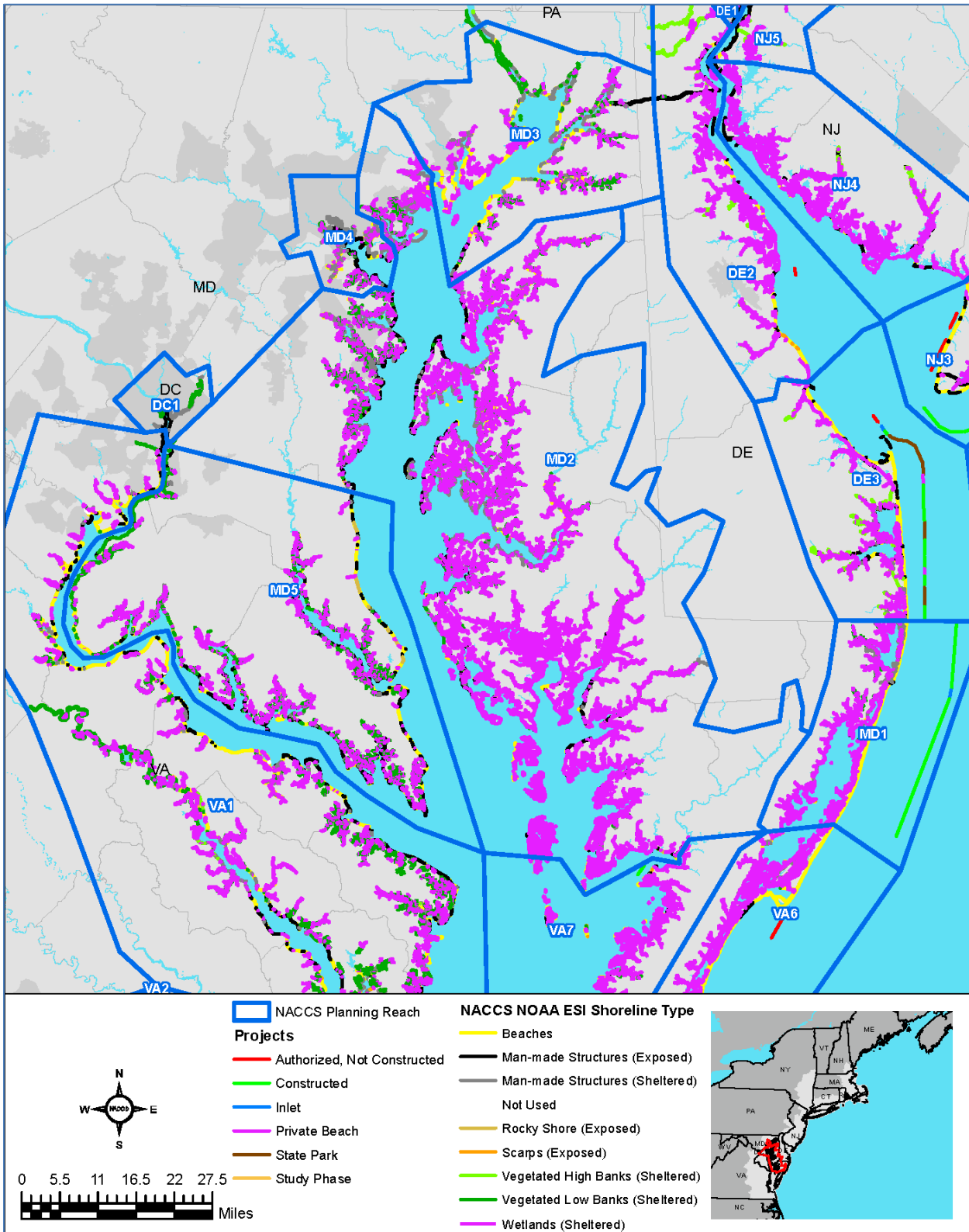


Figure If-63: Shoreline Types (MD2)

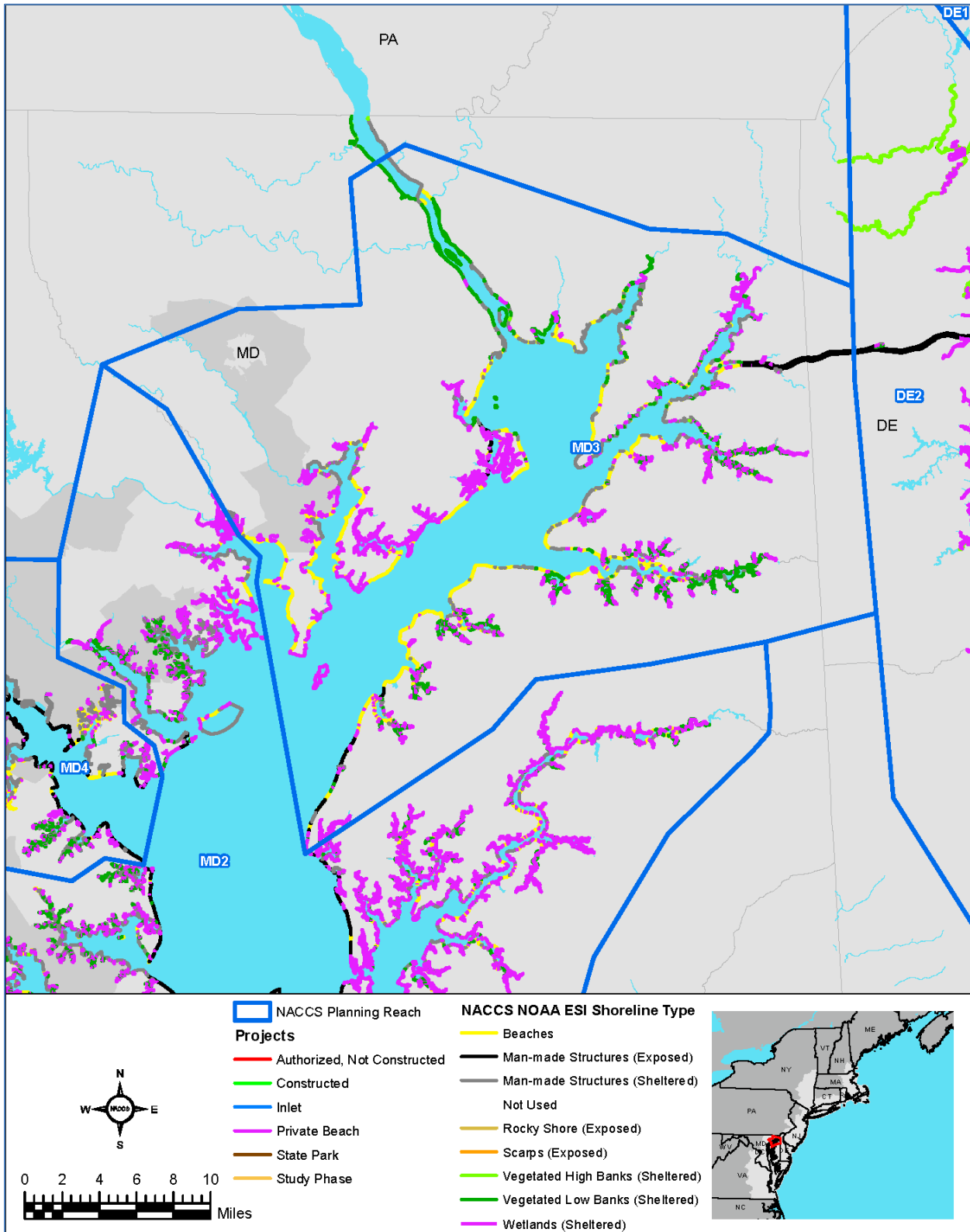


Figure If-64: Shoreline Types (MD3)

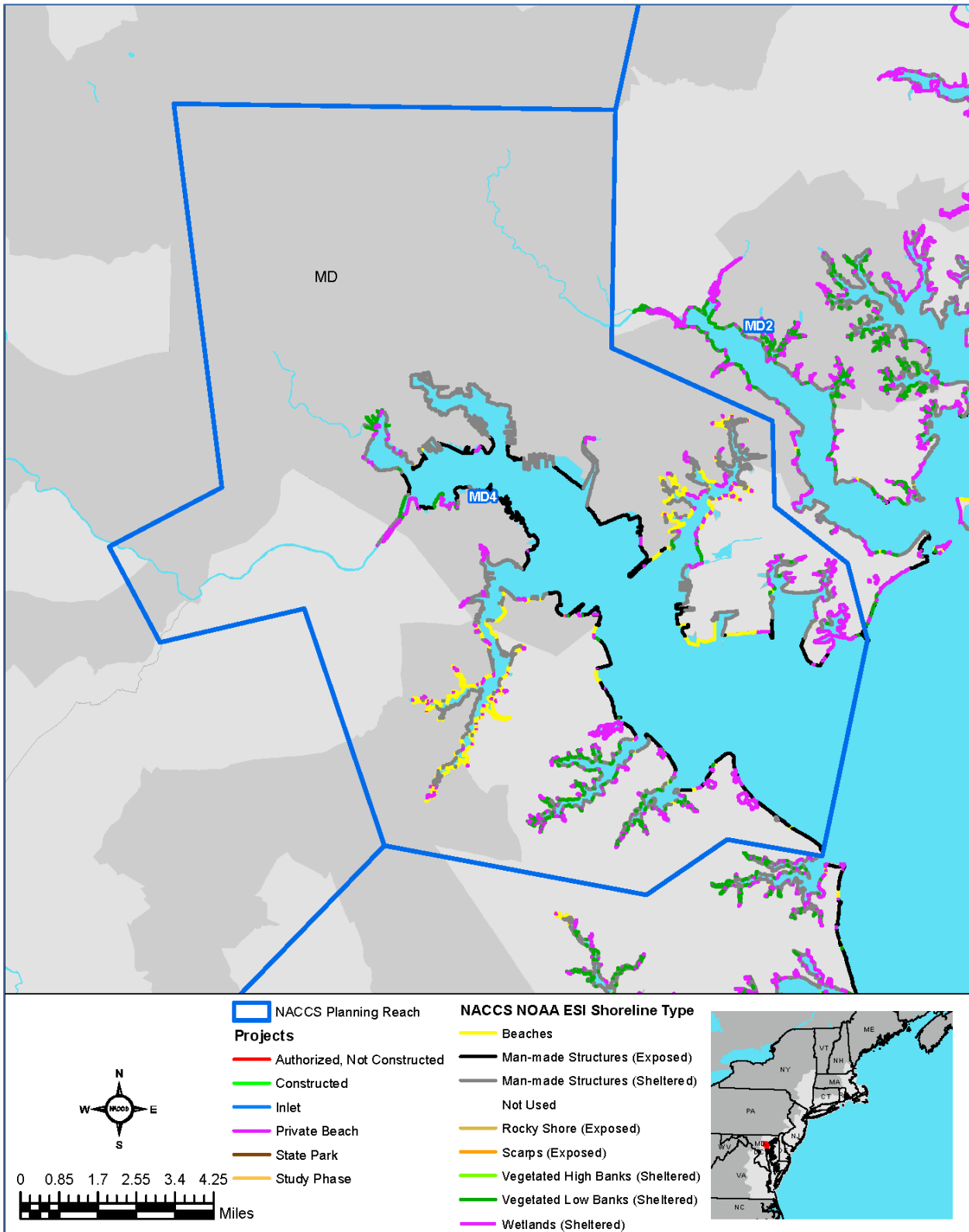


Figure If-65: Shoreline Types (MD4)

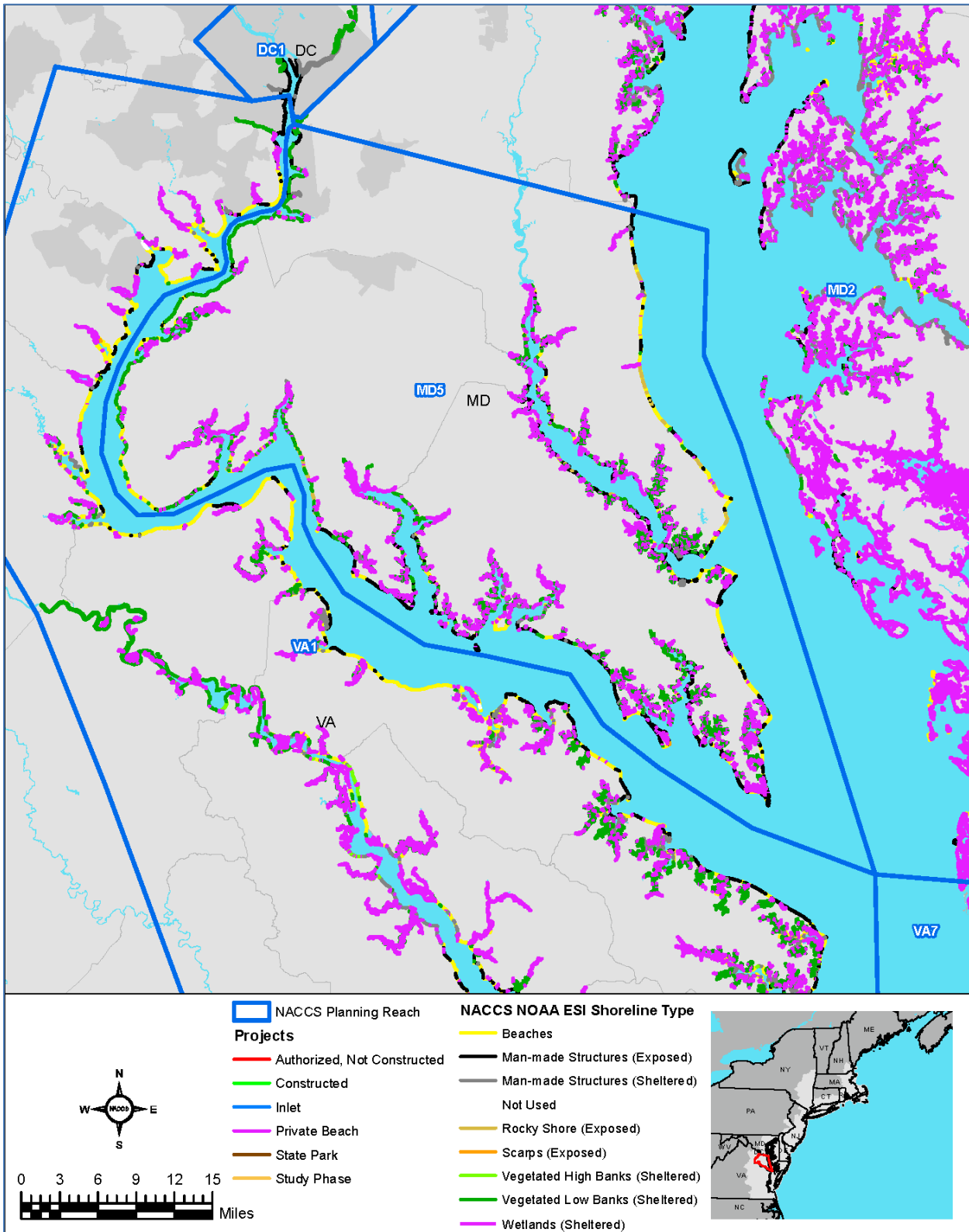


Figure If-66: Shoreline Types (MD5)

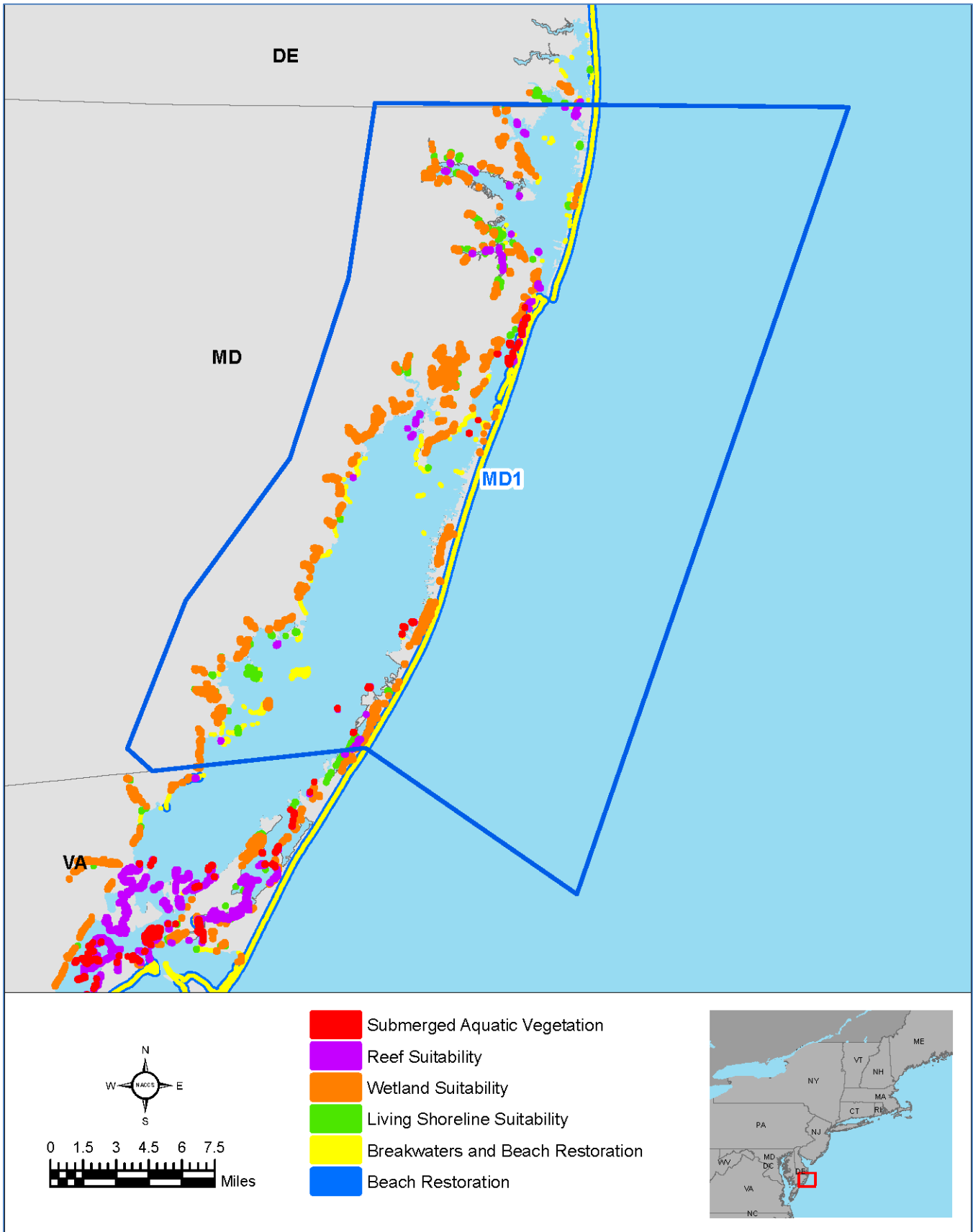


Figure If-67: NNBF Measures Screening (MD1)

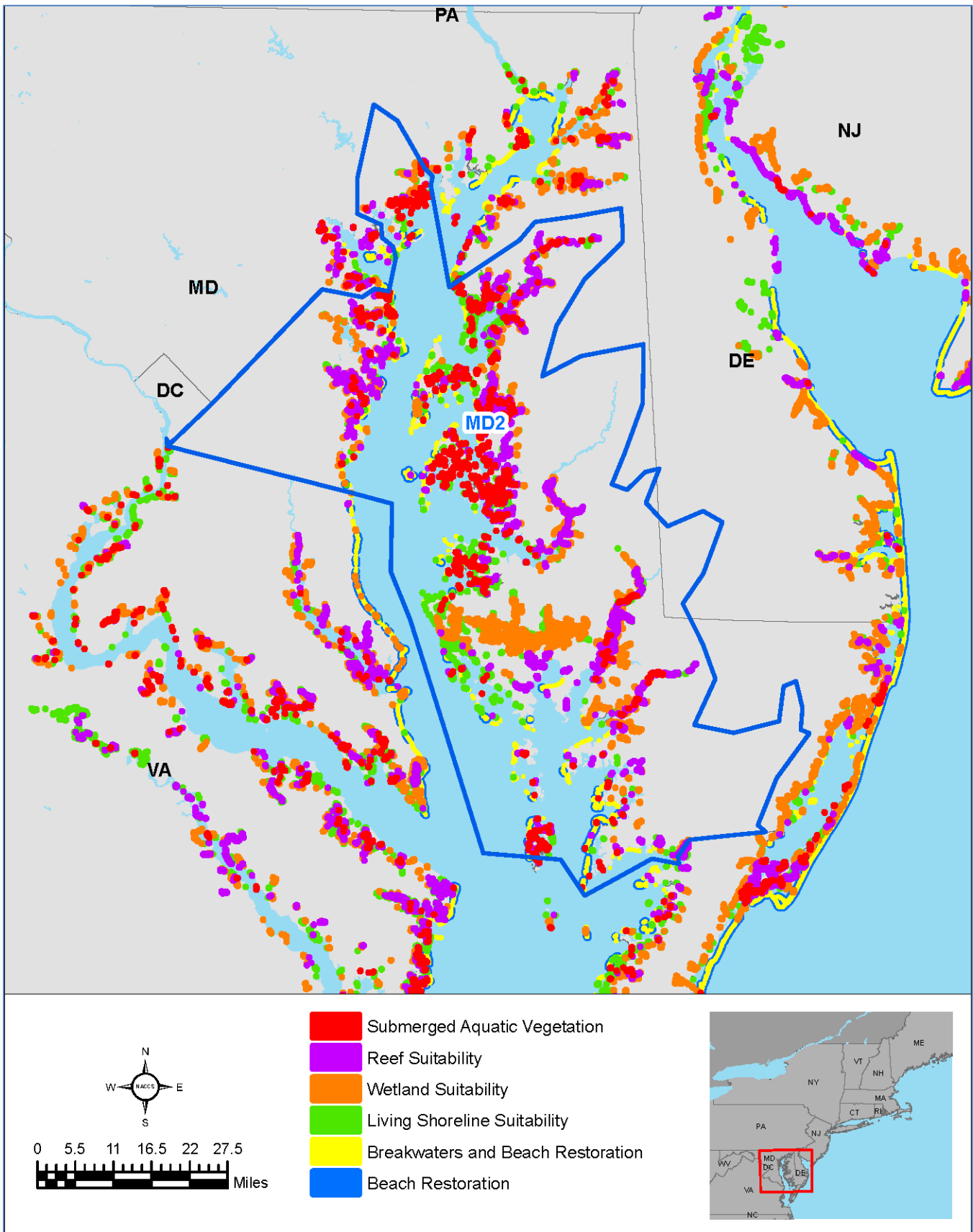


Figure If-68: NNBF Measures Screening (MD2)

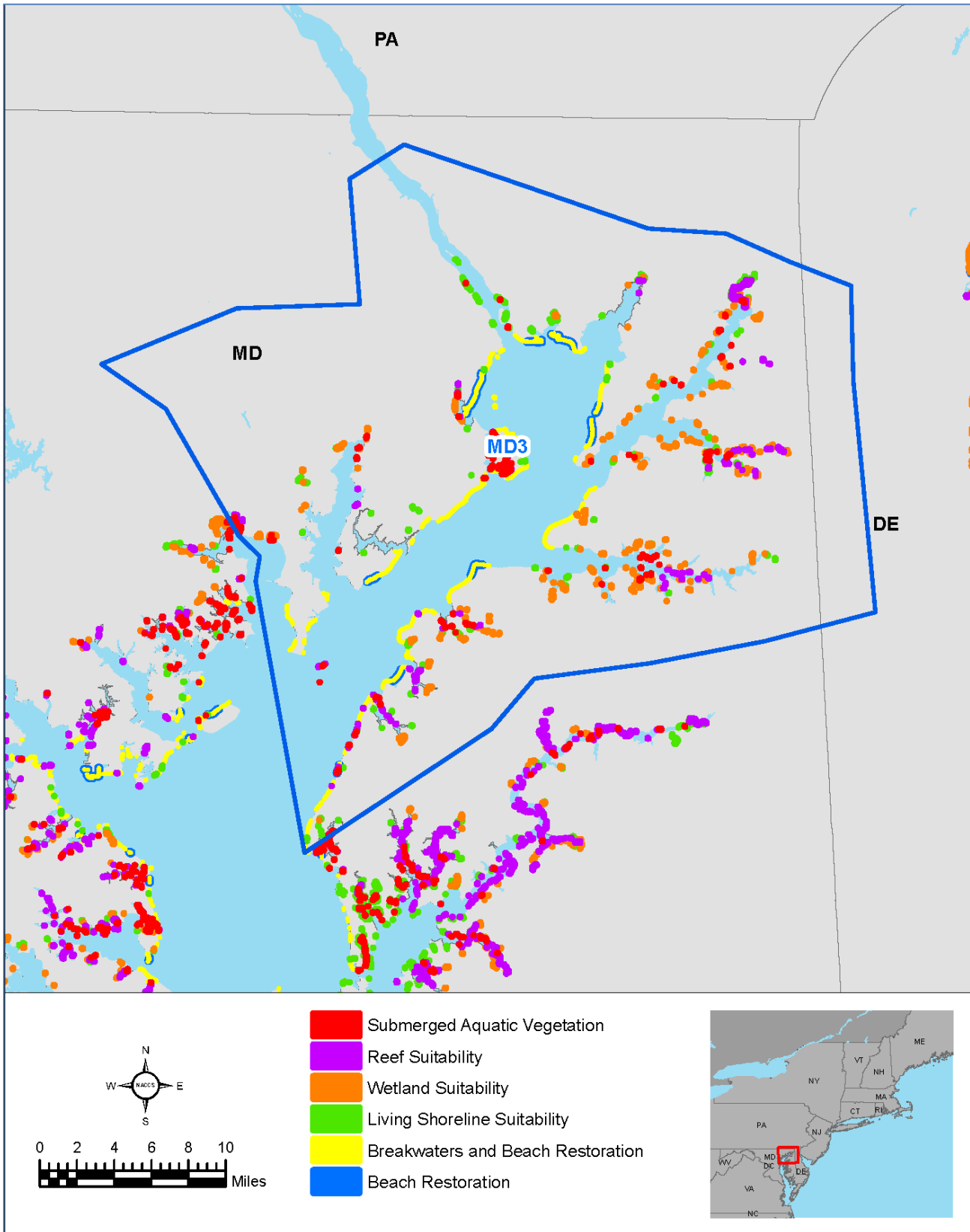


Figure IIf-69: NNBF Measures Screening (MD3)

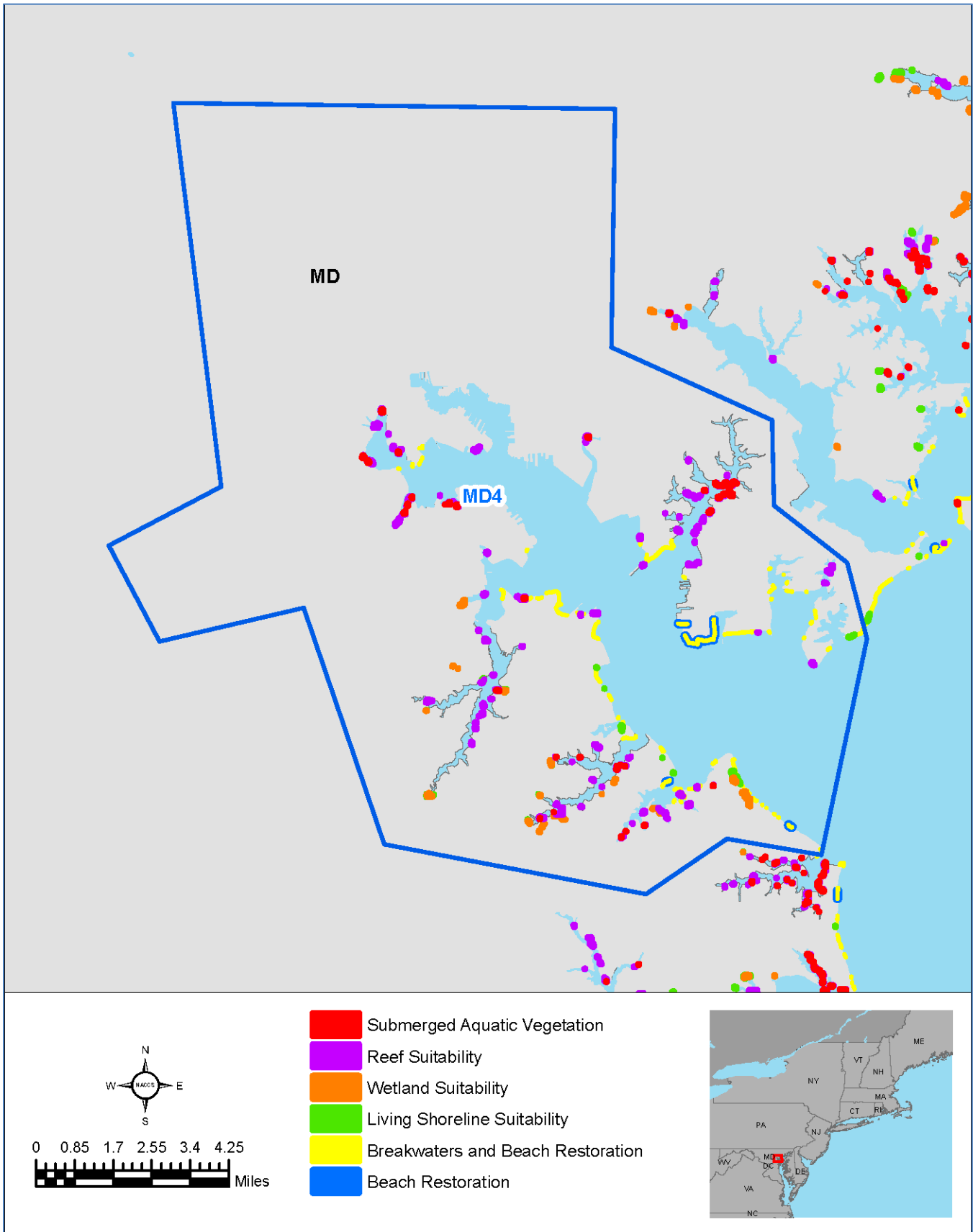


Figure IIf-70: NNBF Measures Screening (MD4)

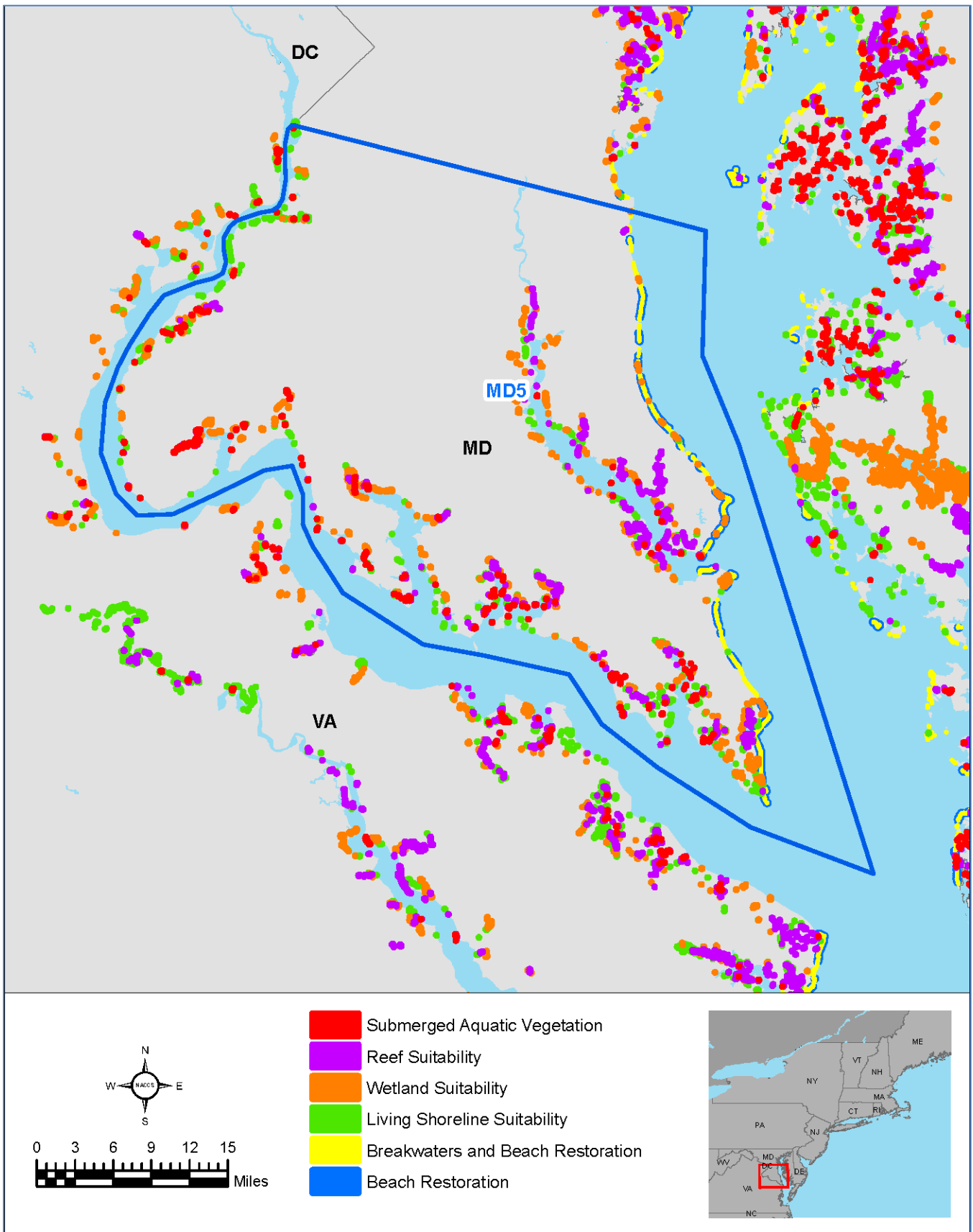


Figure If-71: NNBF Measures Screening (MD5)



g. Commonwealth of Virginia



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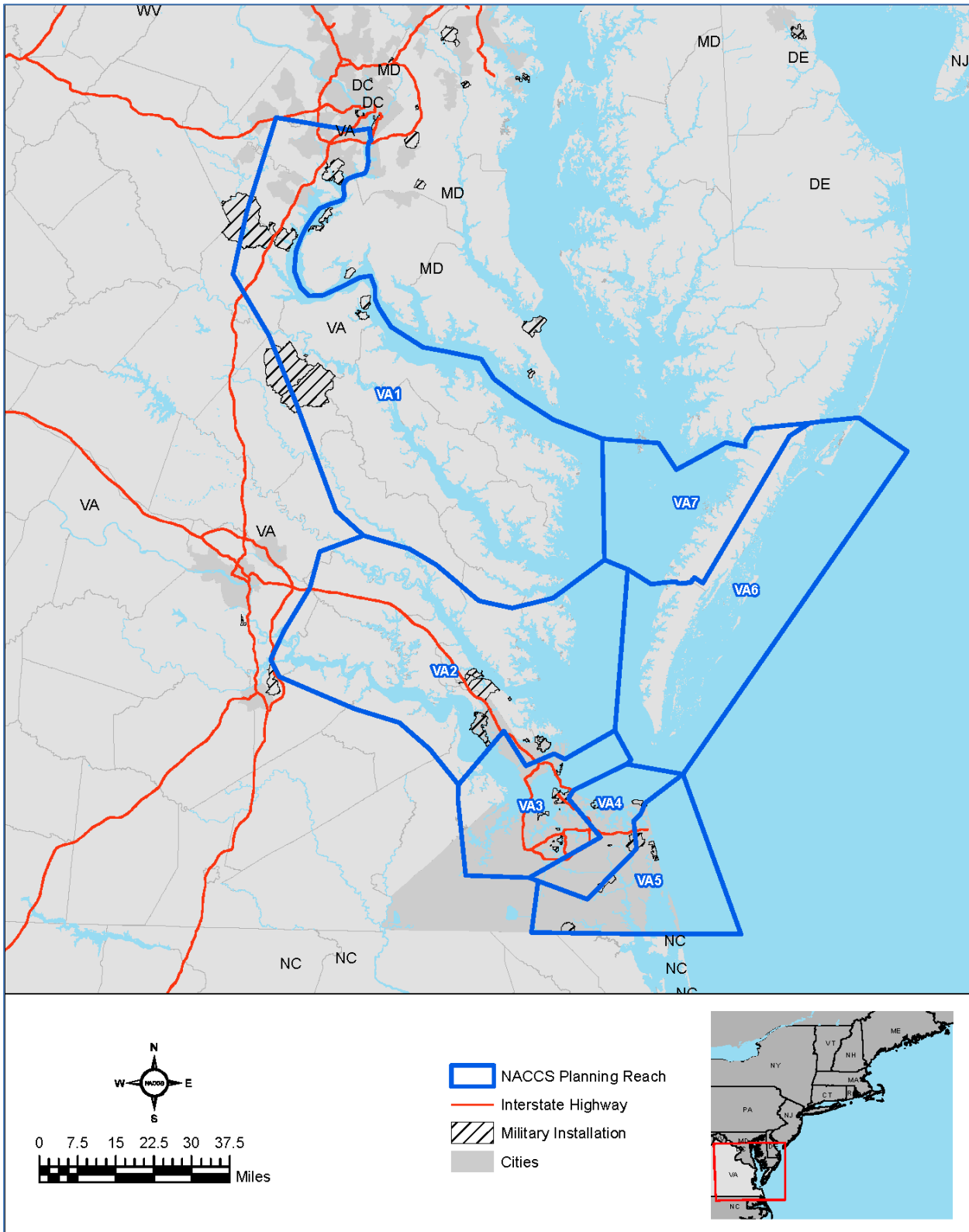


Figure IIg-1: Planning Reaches for the Commonwealth of Virginia

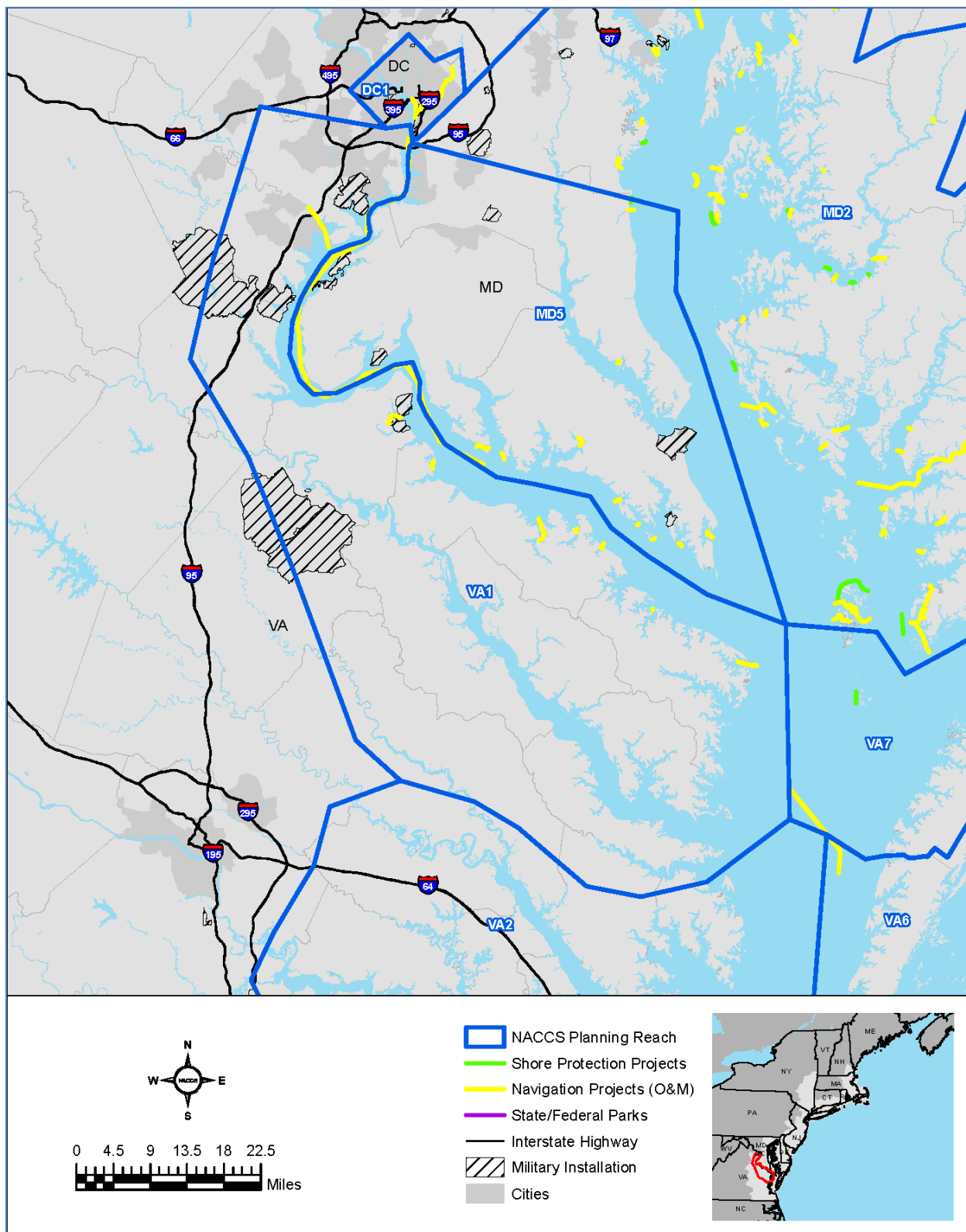


Figure IIg-2: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (VA1)



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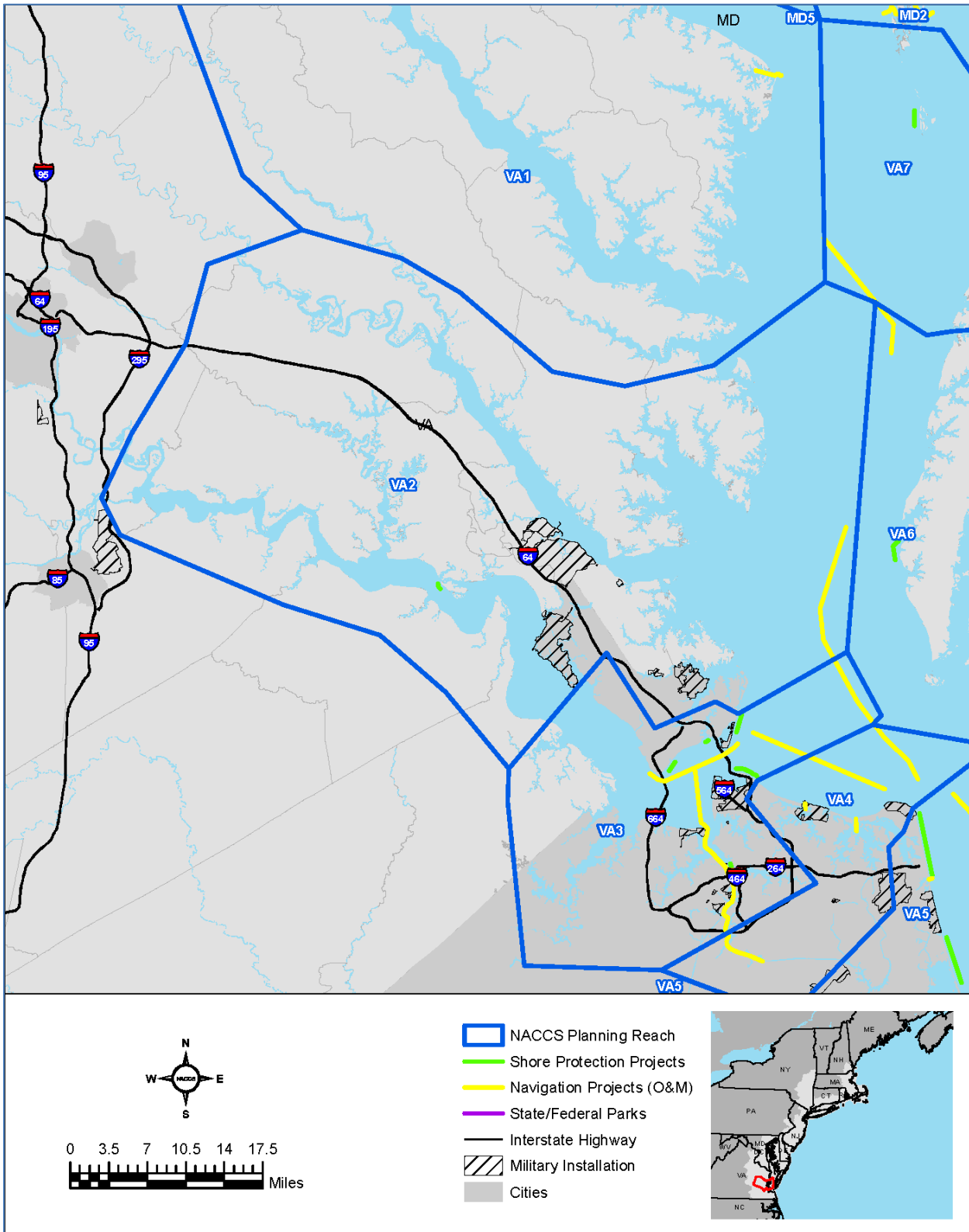


Figure 11g-3: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (VA2)

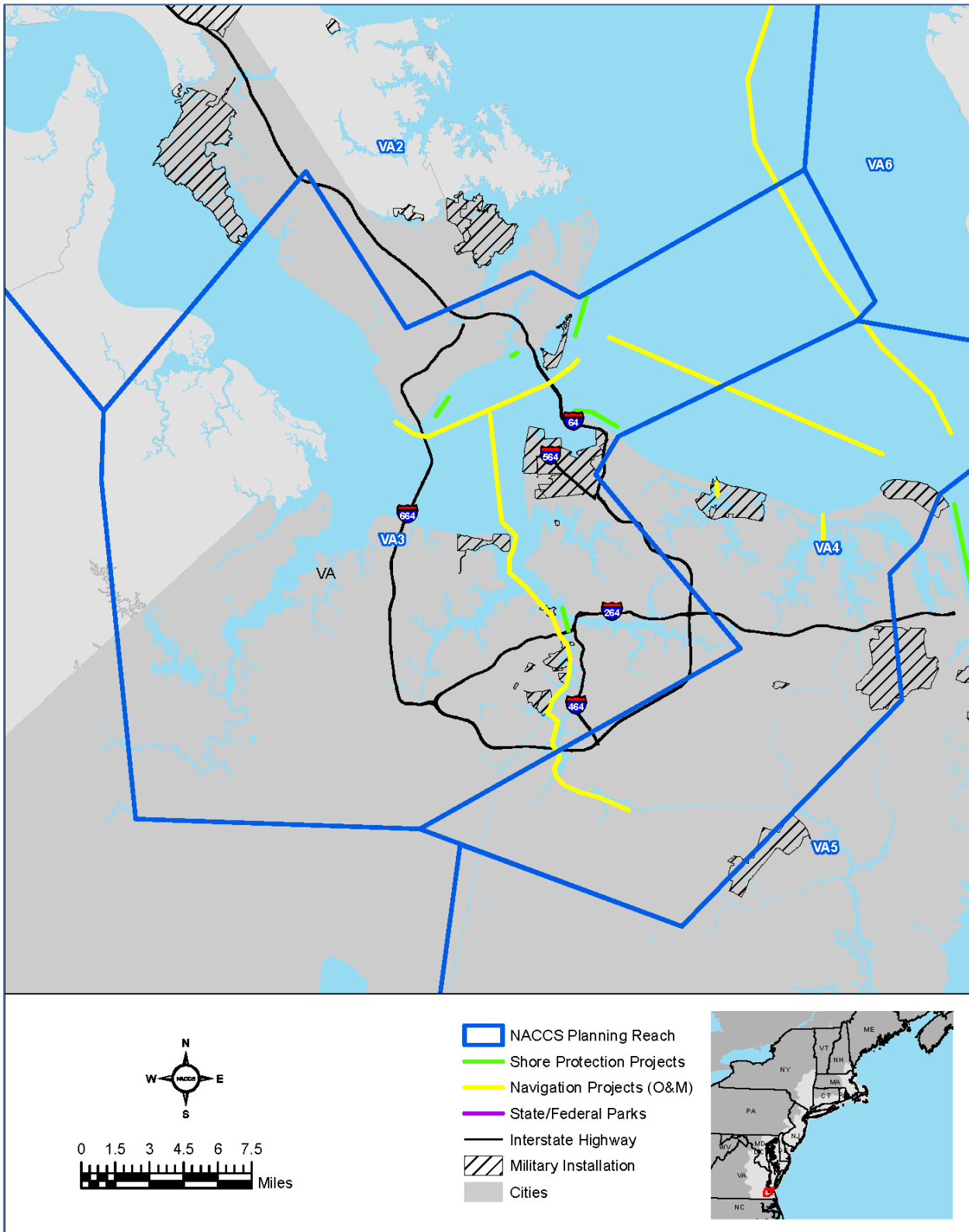


Figure 11g-4: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (VA3)

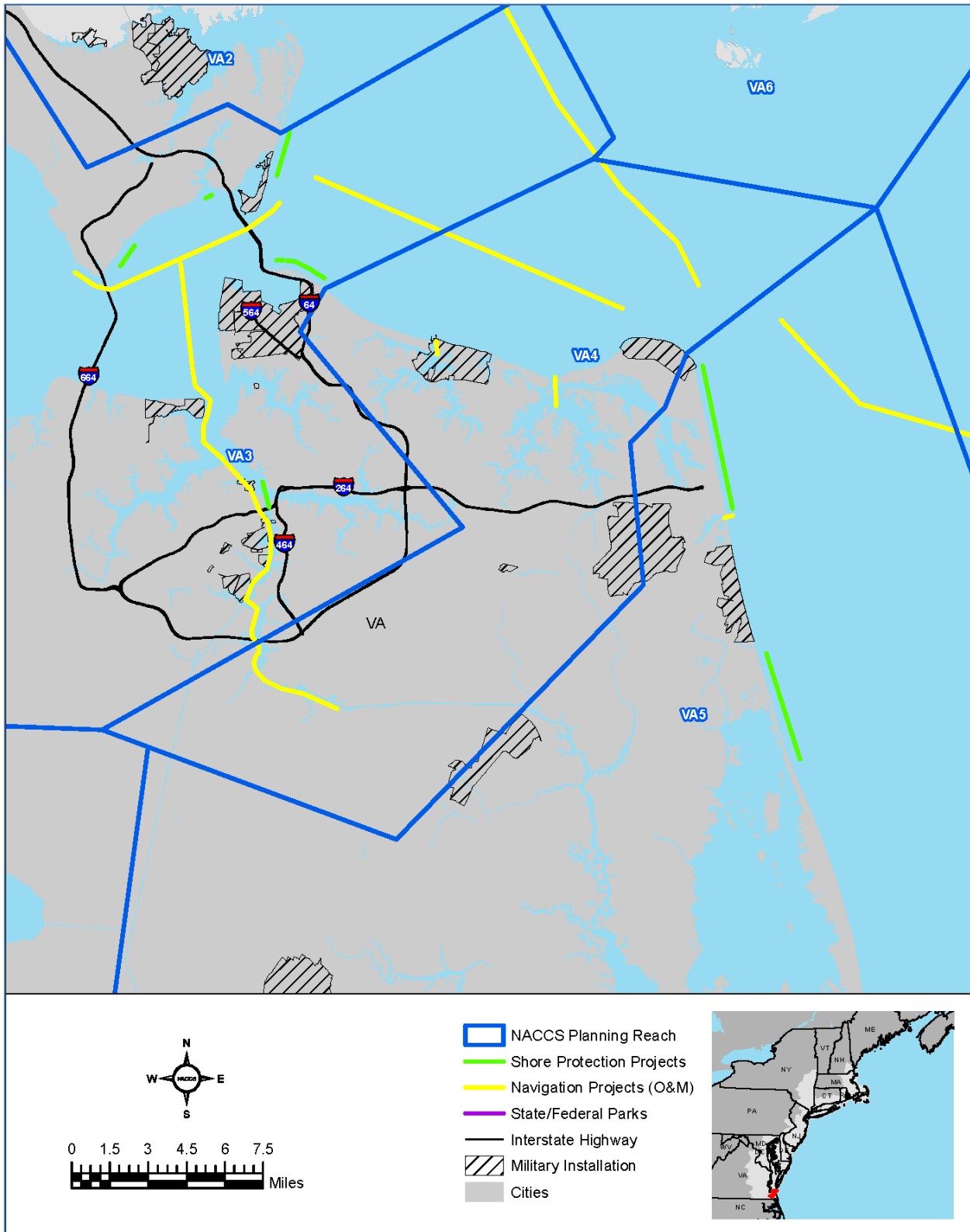


Figure 11g-5: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (VA4)

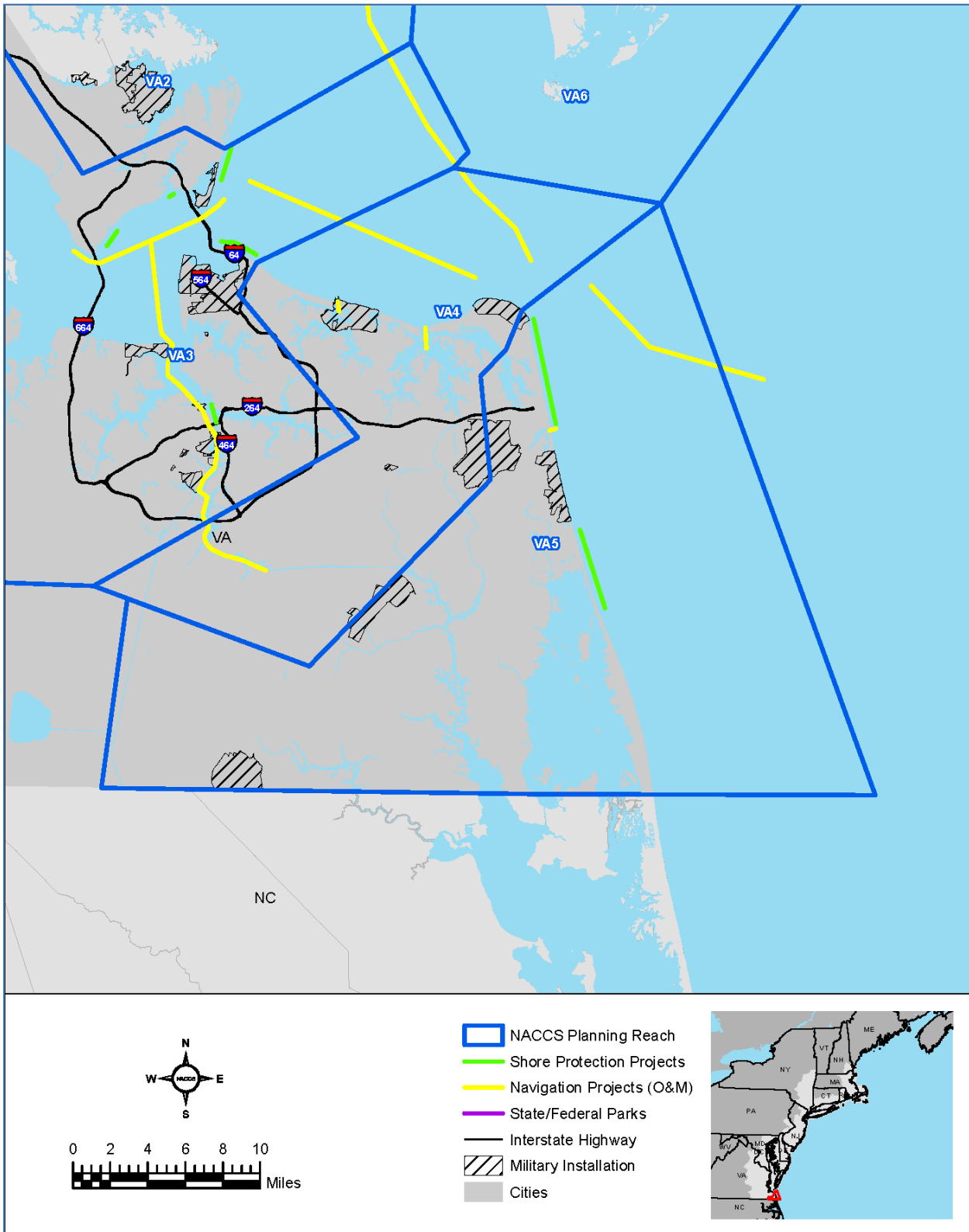


Figure 11g-6: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (VA5)

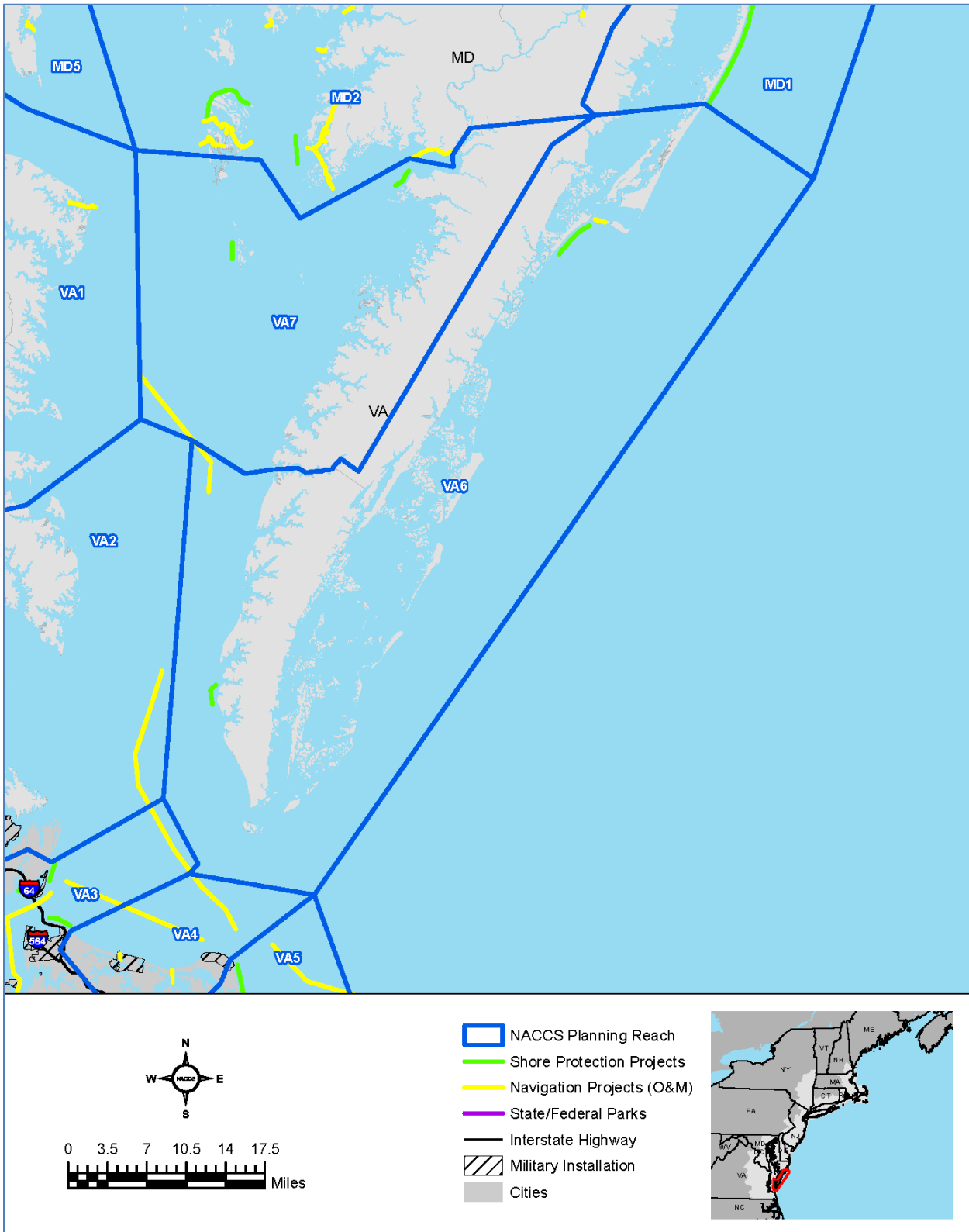


Figure 11g-7: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (VA6)

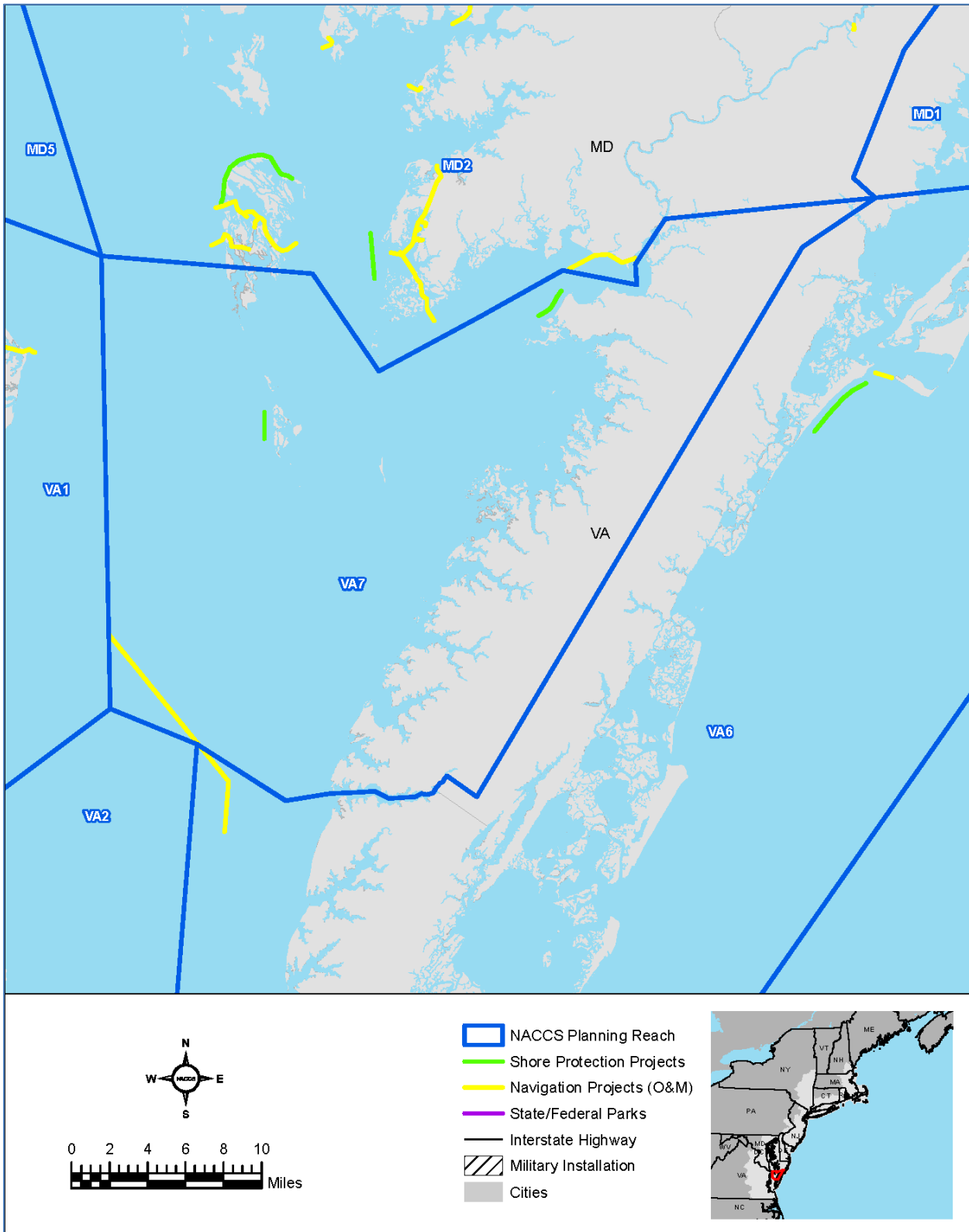


Figure 11g-8: Federal Projects Included in the Post-Hurricane Sandy Landscape Condition (VA7)

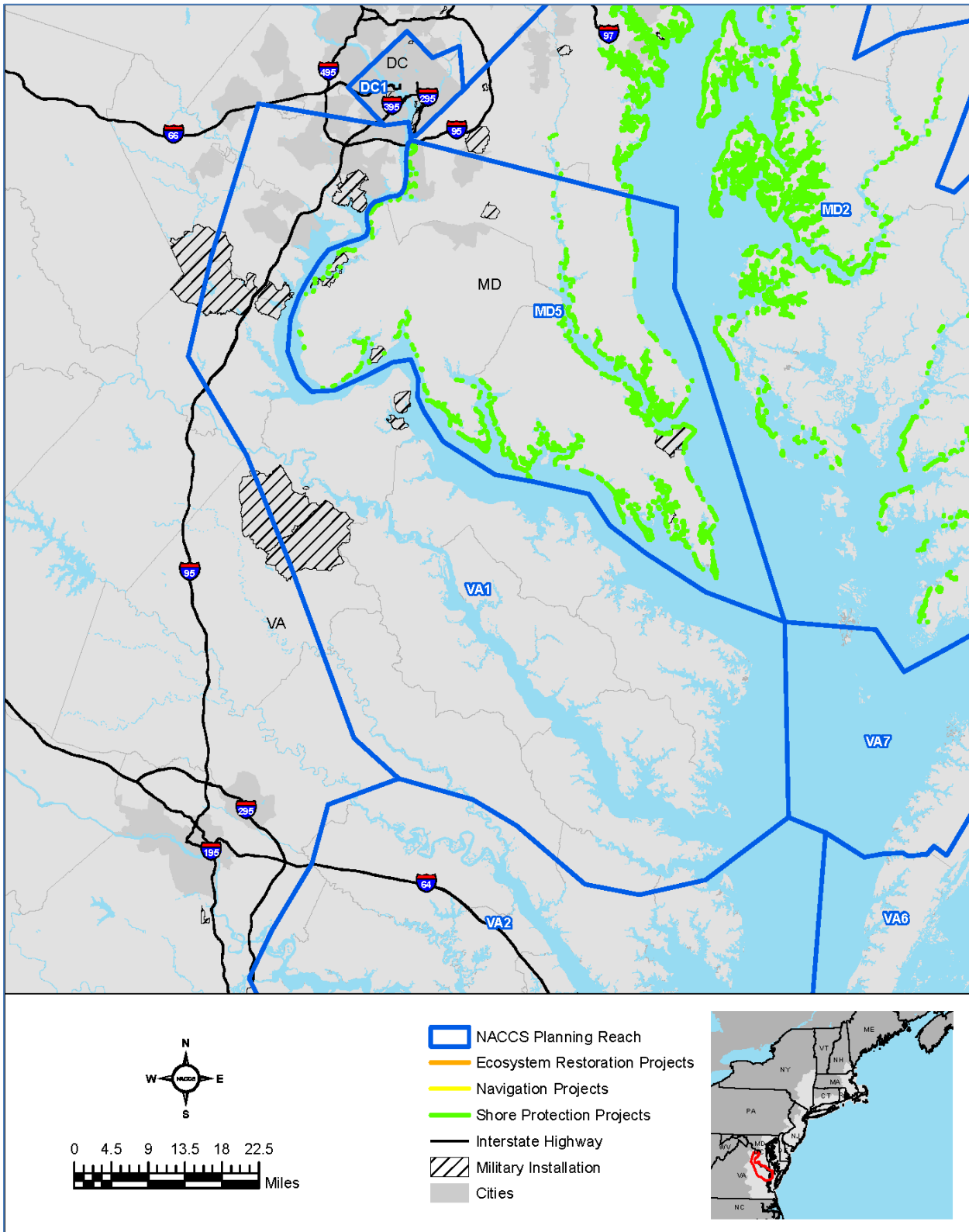


Figure 11g-9: State Projects Included in the Post-Hurricane Sandy Landscape Condition (VA1)

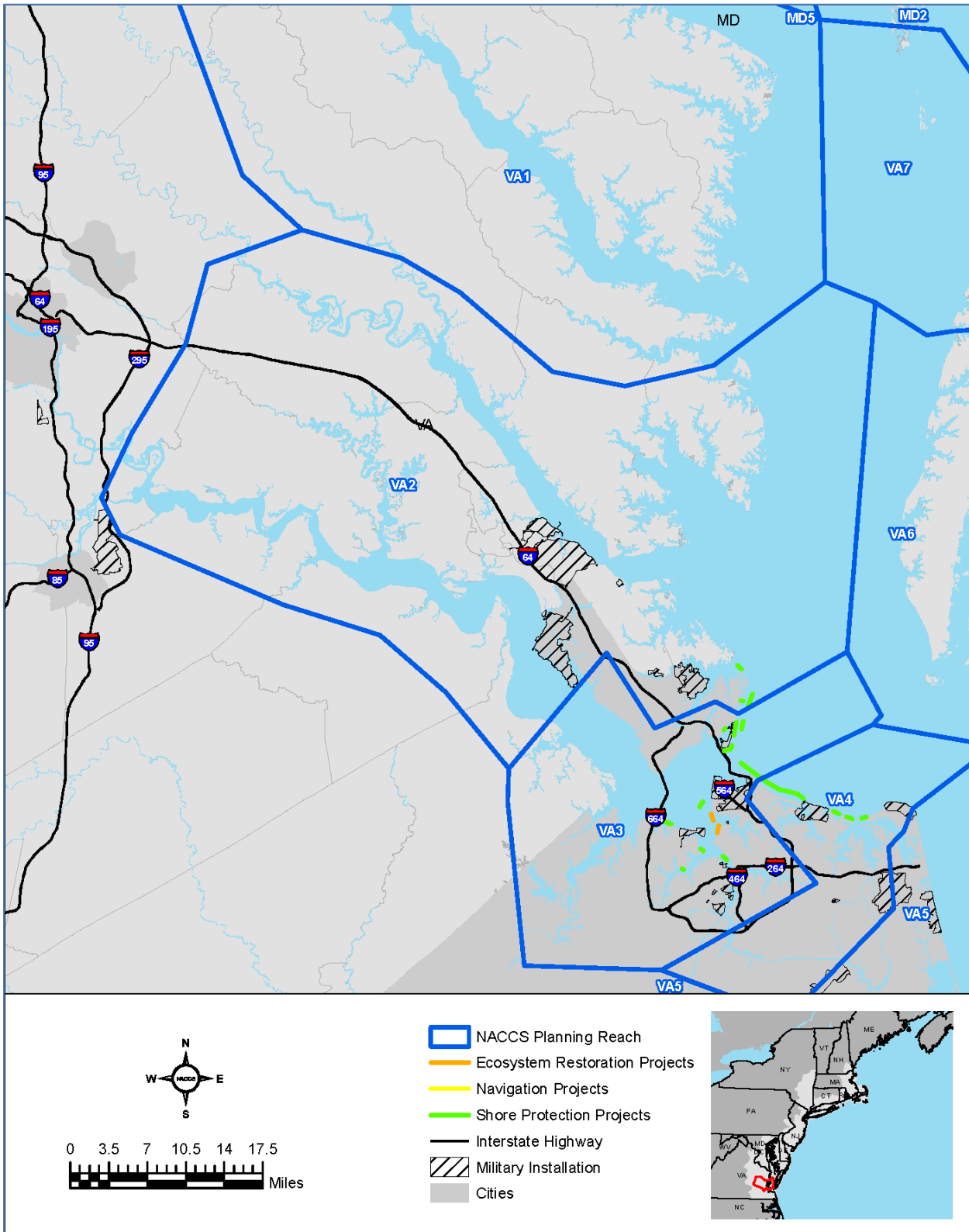


Figure IIg-10: State Projects Included in the Post-Hurricane Sandy Landscape Condition (VA2)

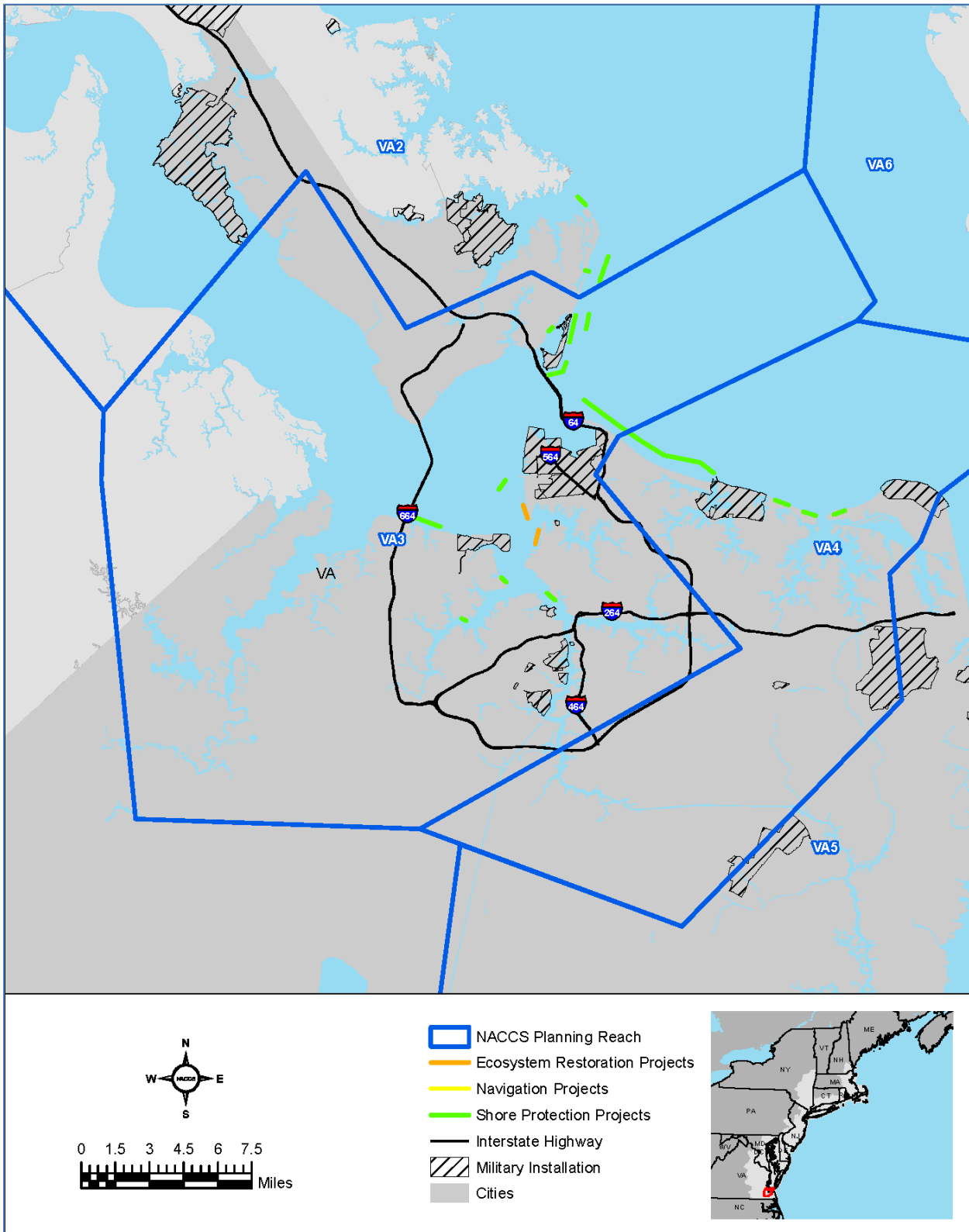


Figure IIg-11: State Projects Included in the Post-Hurricane Sandy Landscape Condition (VA3)

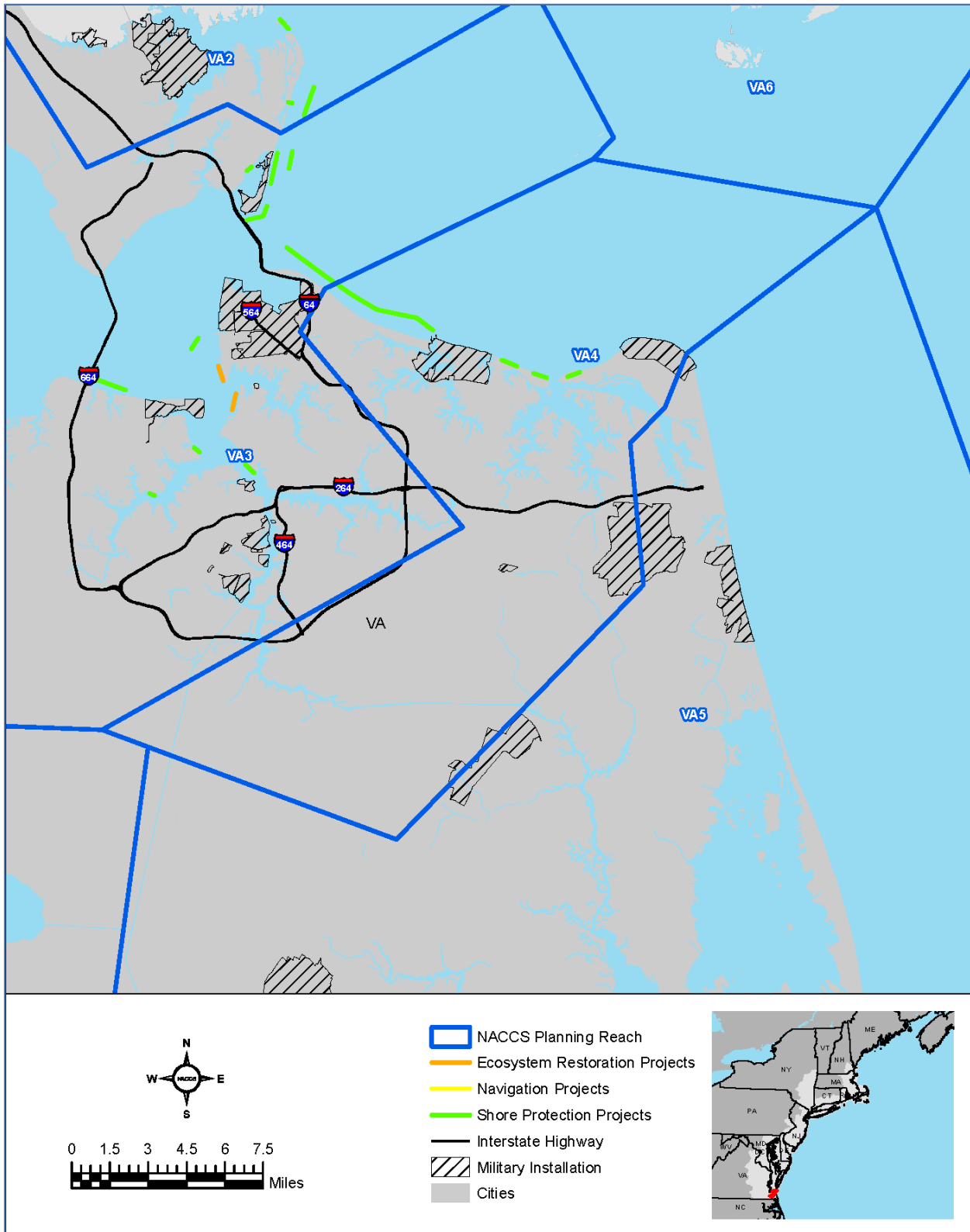


Figure IIg-12: State Projects Included in the Post-Hurricane Sandy Landscape Condition (VA4)

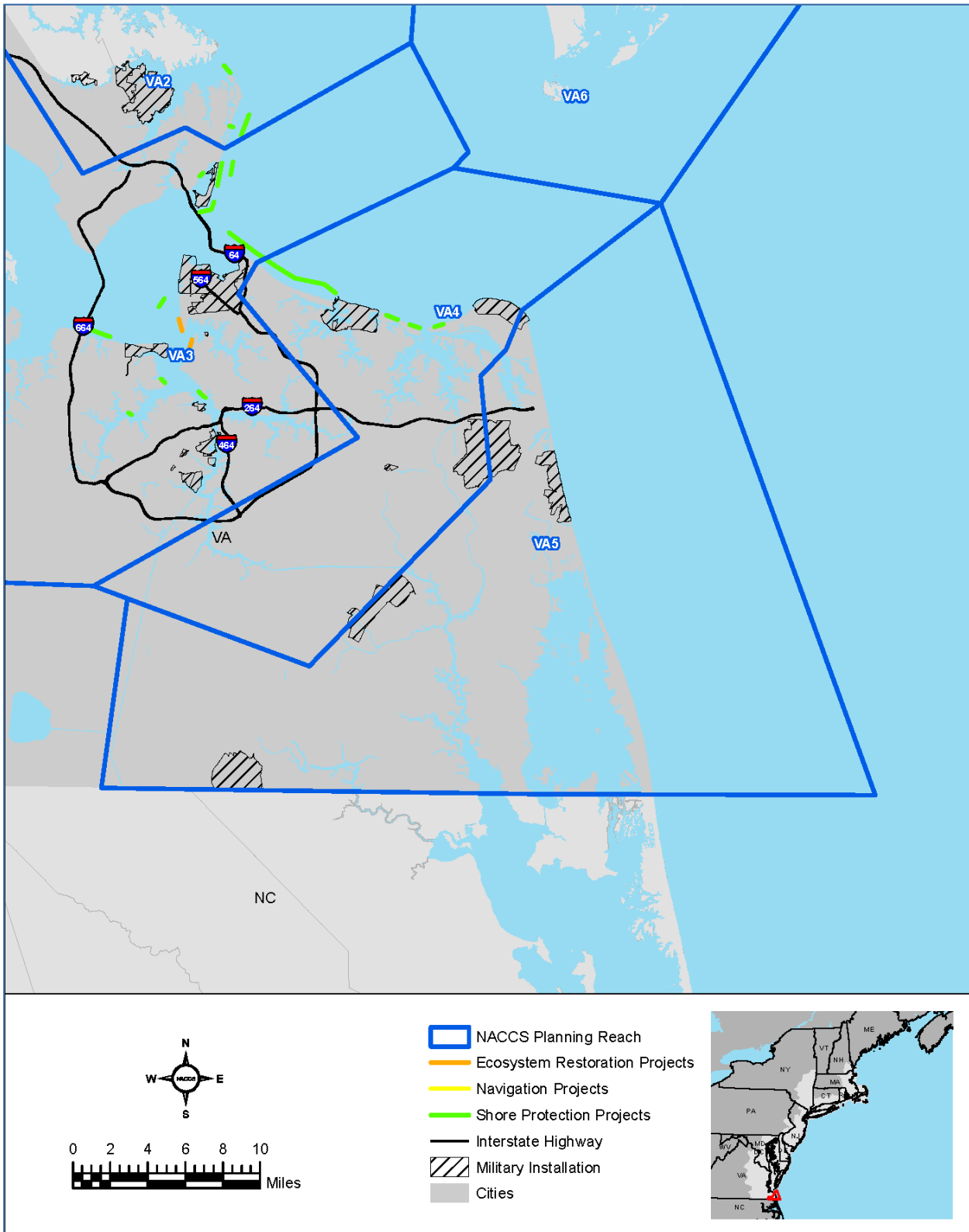


Figure IIg-13: State Projects Included in the Post-Hurricane Sandy Landscape Condition (VA5)

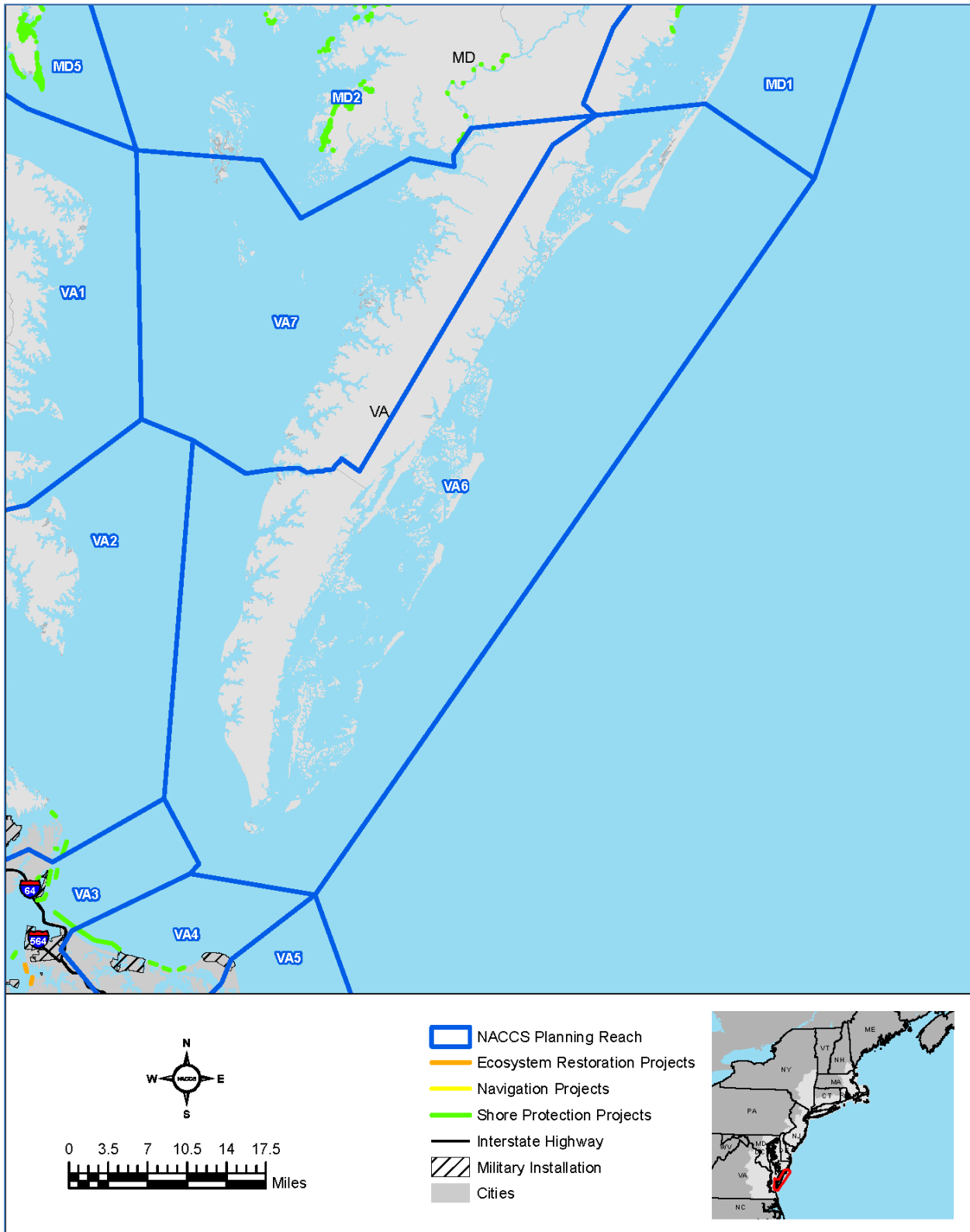


Figure IIg-14: State Projects Included in the Post-Hurricane Sandy Landscape Condition (VA6)

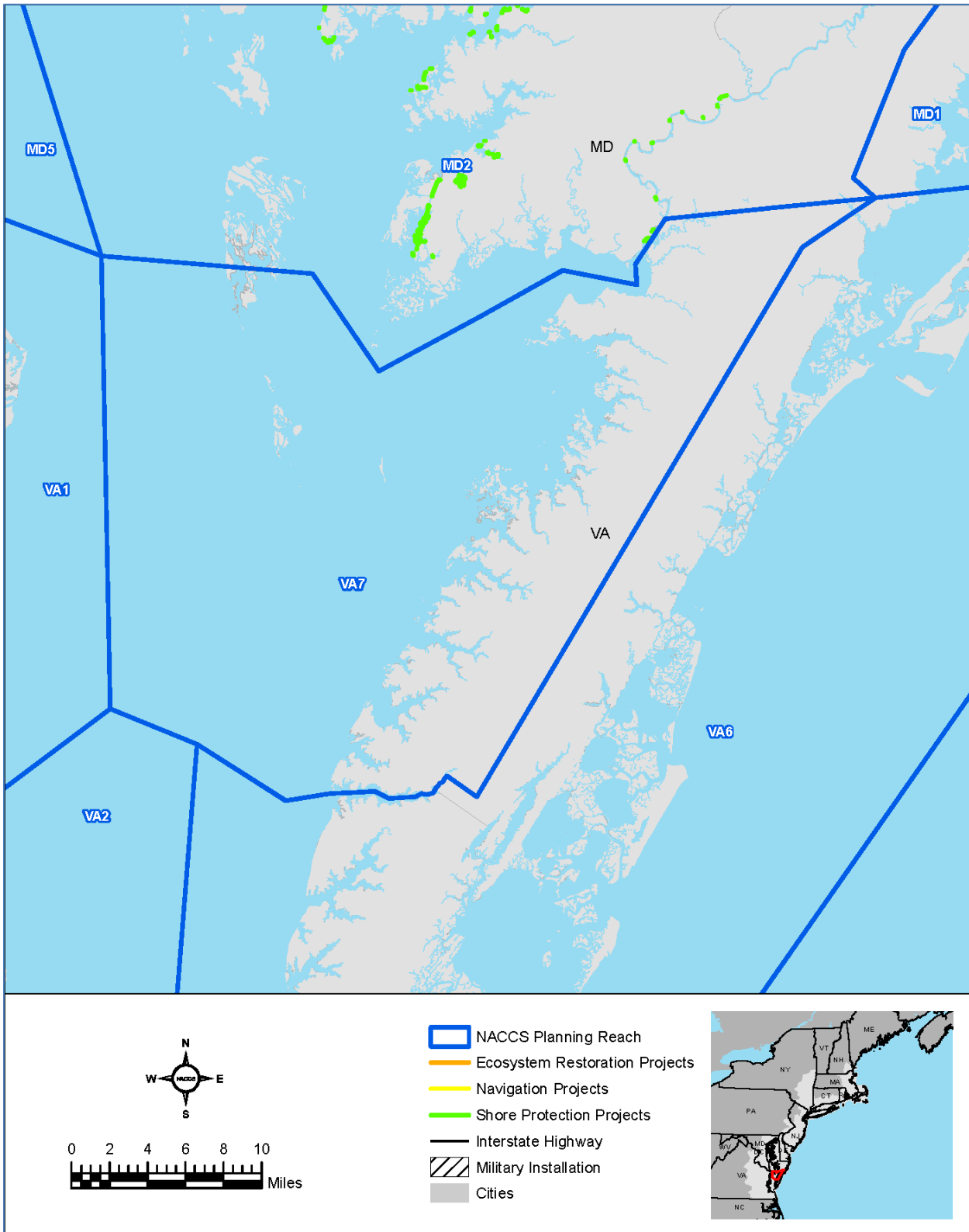


Figure IIg-15: State Projects Included in the Post-Hurricane Sandy Landscape Condition (VA7)

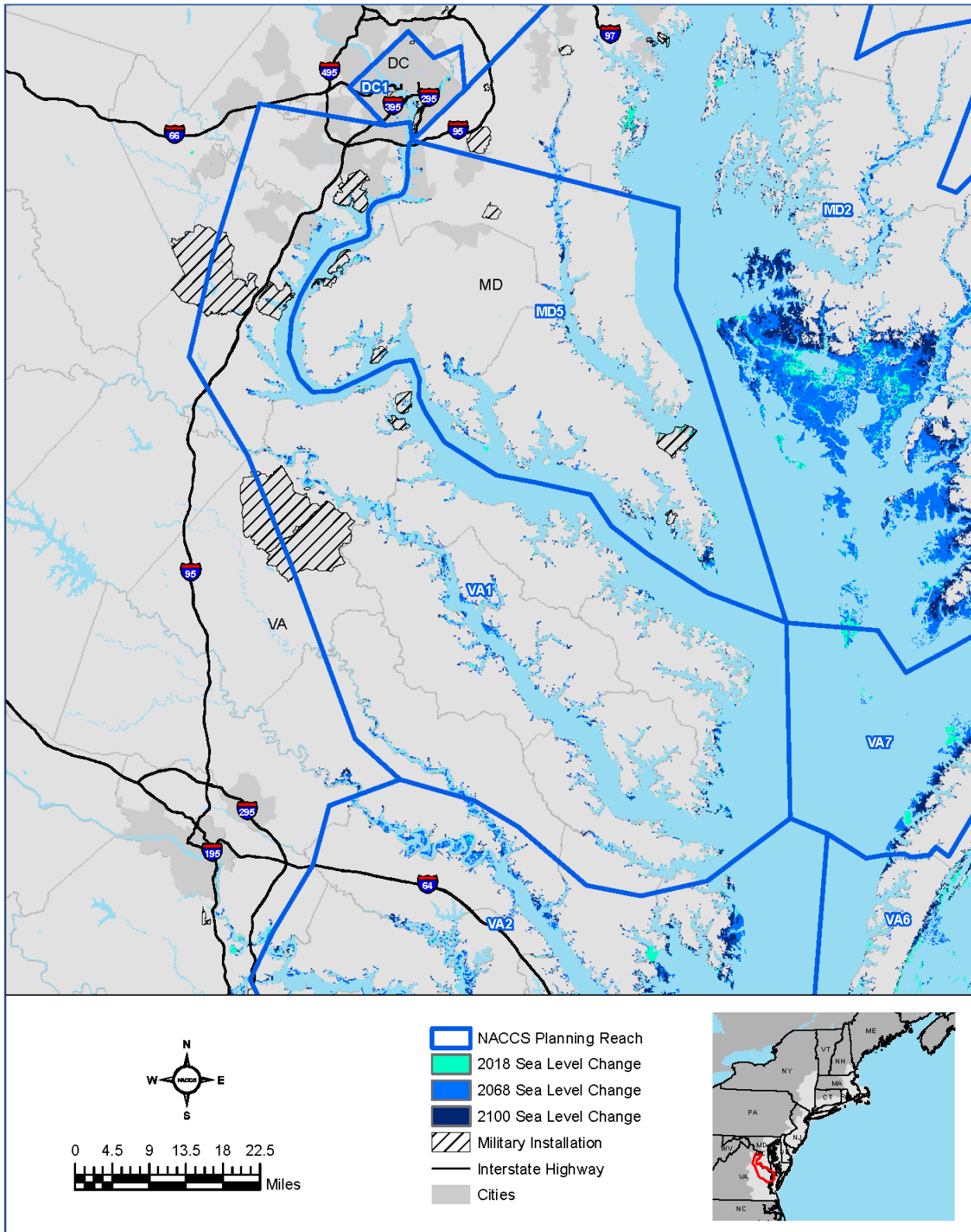


Figure IIg-16: USACE High Scenario Future Mean Sea Level Change Inundation (VA1)

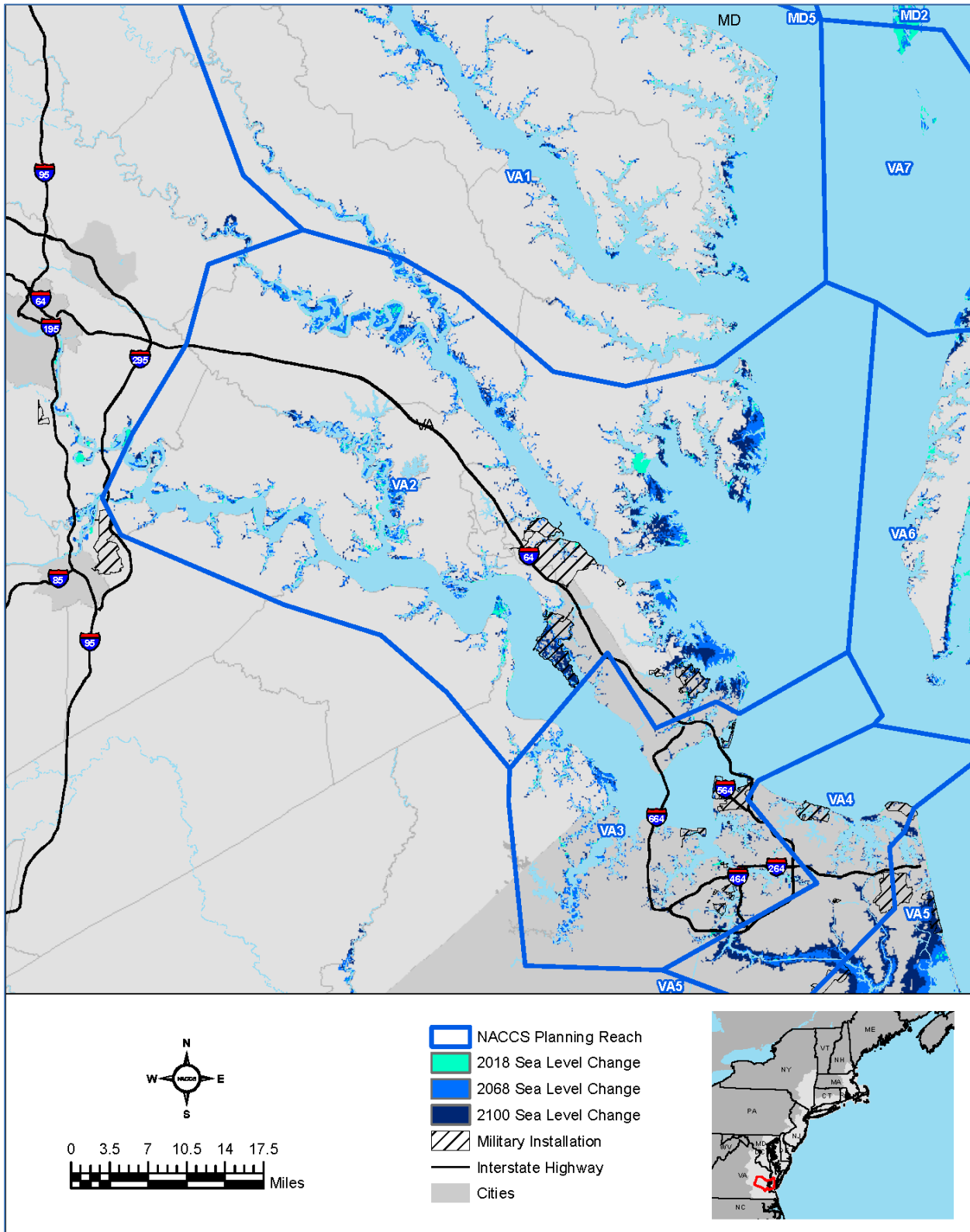


Figure 11g-17: USACE High Scenario Future Mean Sea Level Change Inundation (VA2)

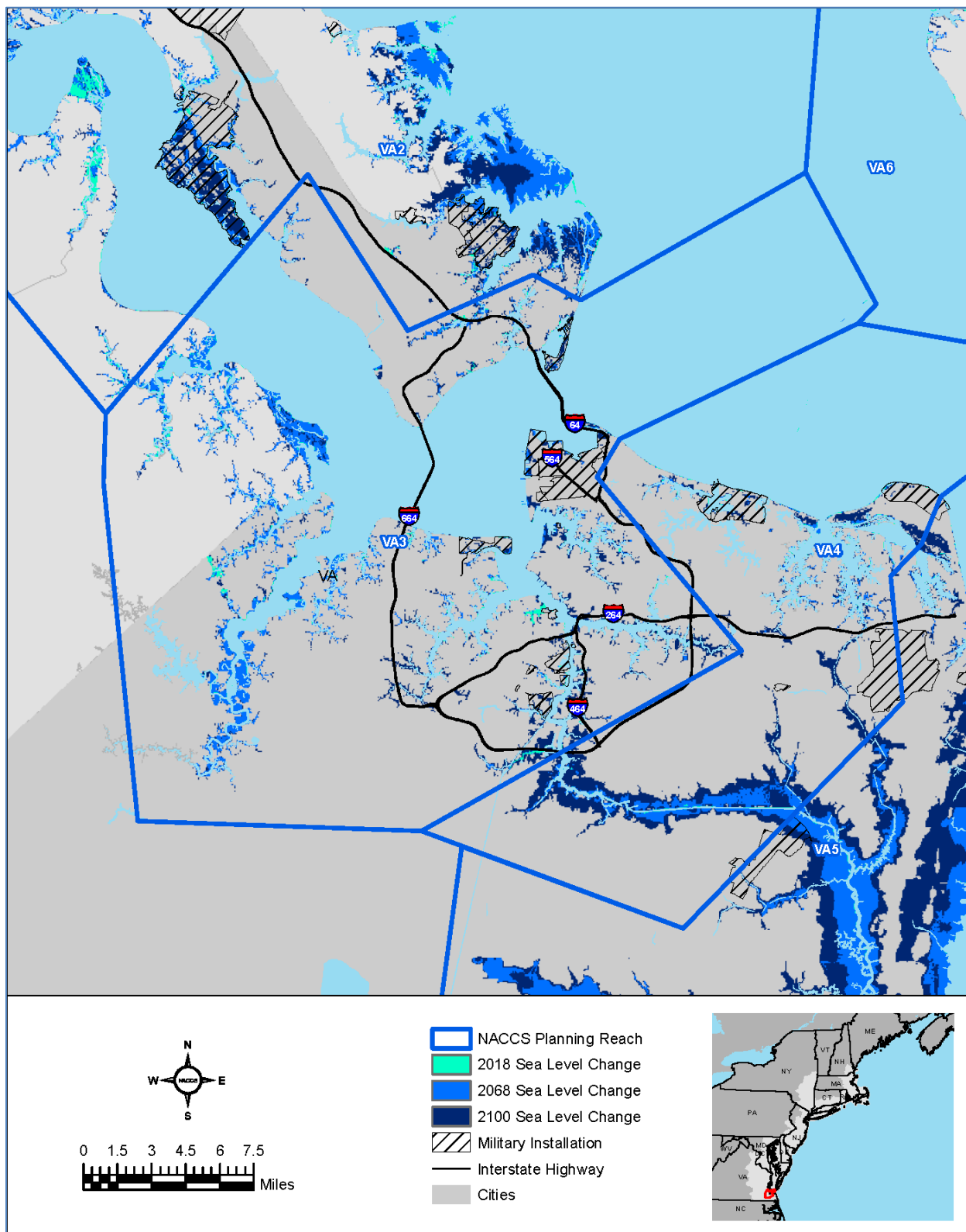


Figure IIg-18: USACE High Scenario Future Mean Sea Level Change Inundation (VA3)

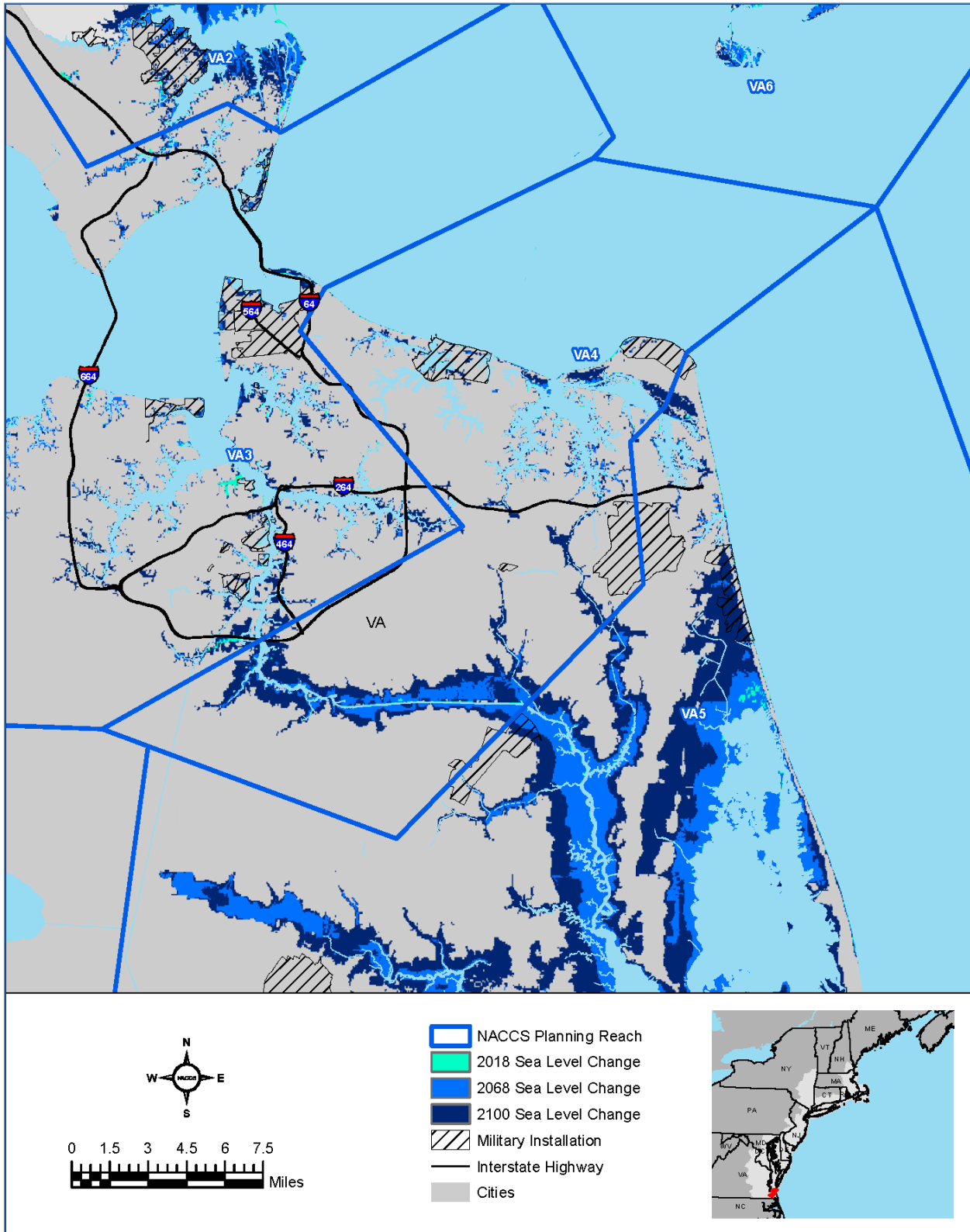


Figure IIg-19: USACE High Scenario Future Mean Sea Level Change Inundation (VA4)

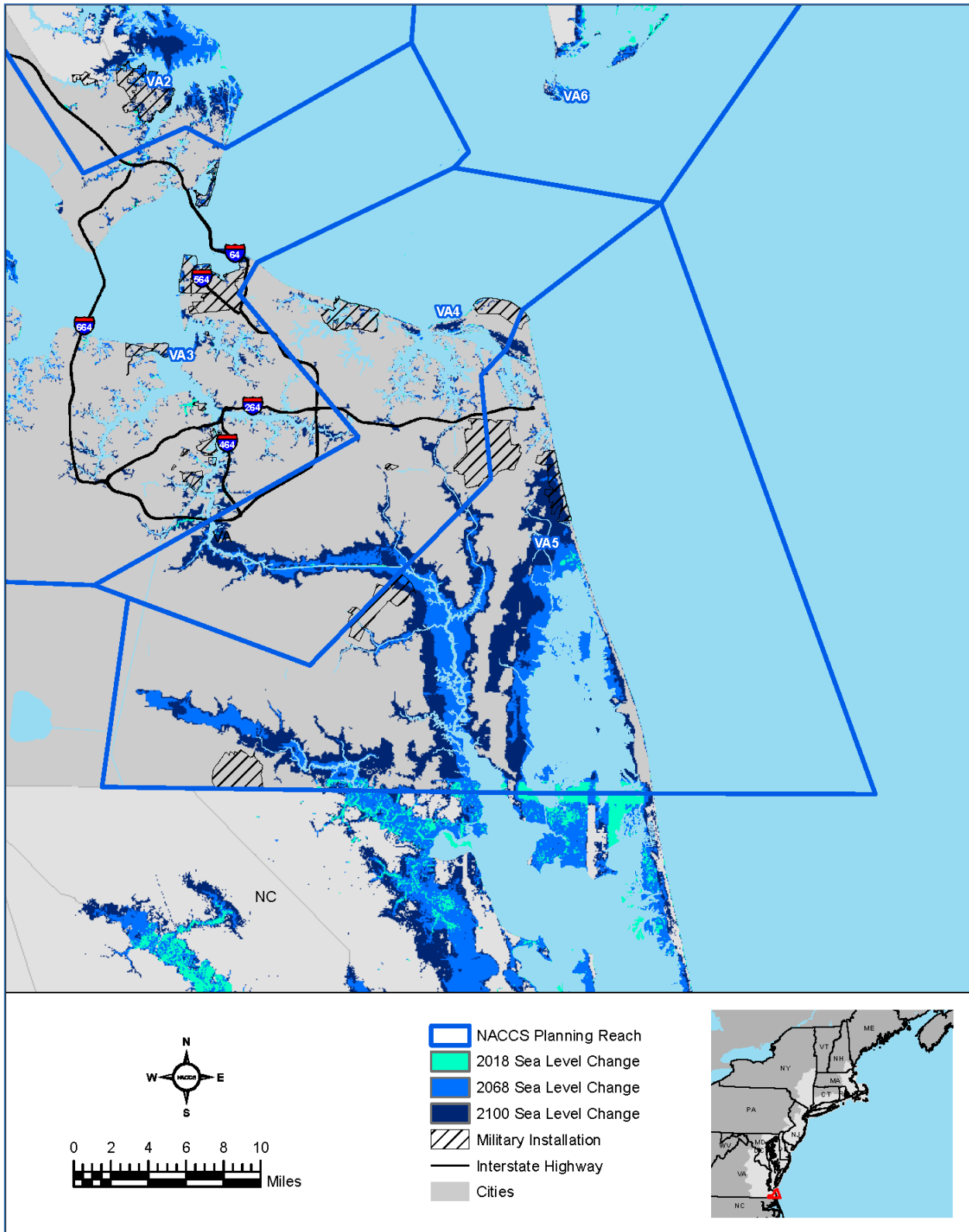


Figure IIg-20: USACE High Scenario Future Mean Sea Level Change Inundation (VA5)

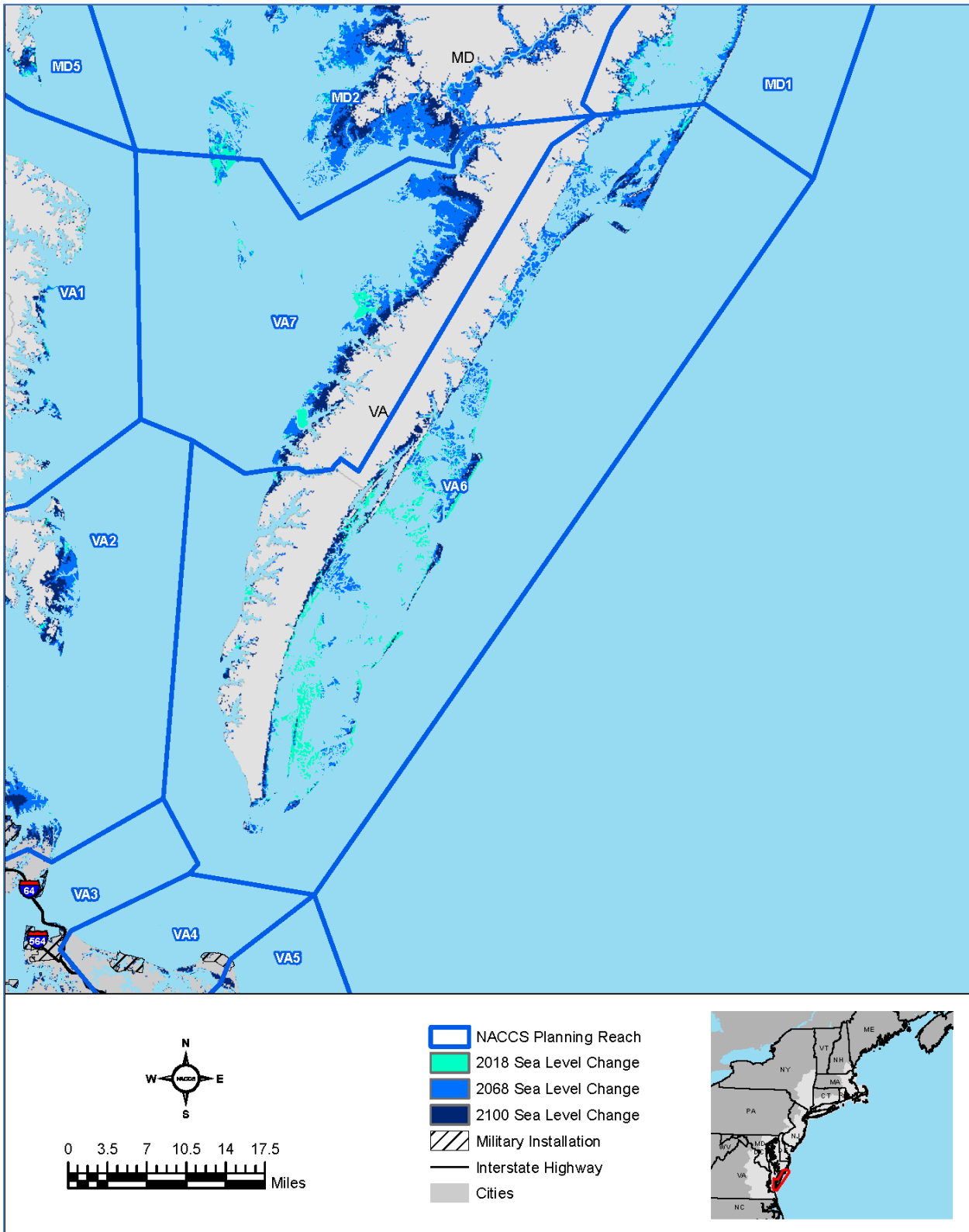


Figure IIg-21: USACE High Scenario Future Mean Sea Level Change Inundation (VA6)

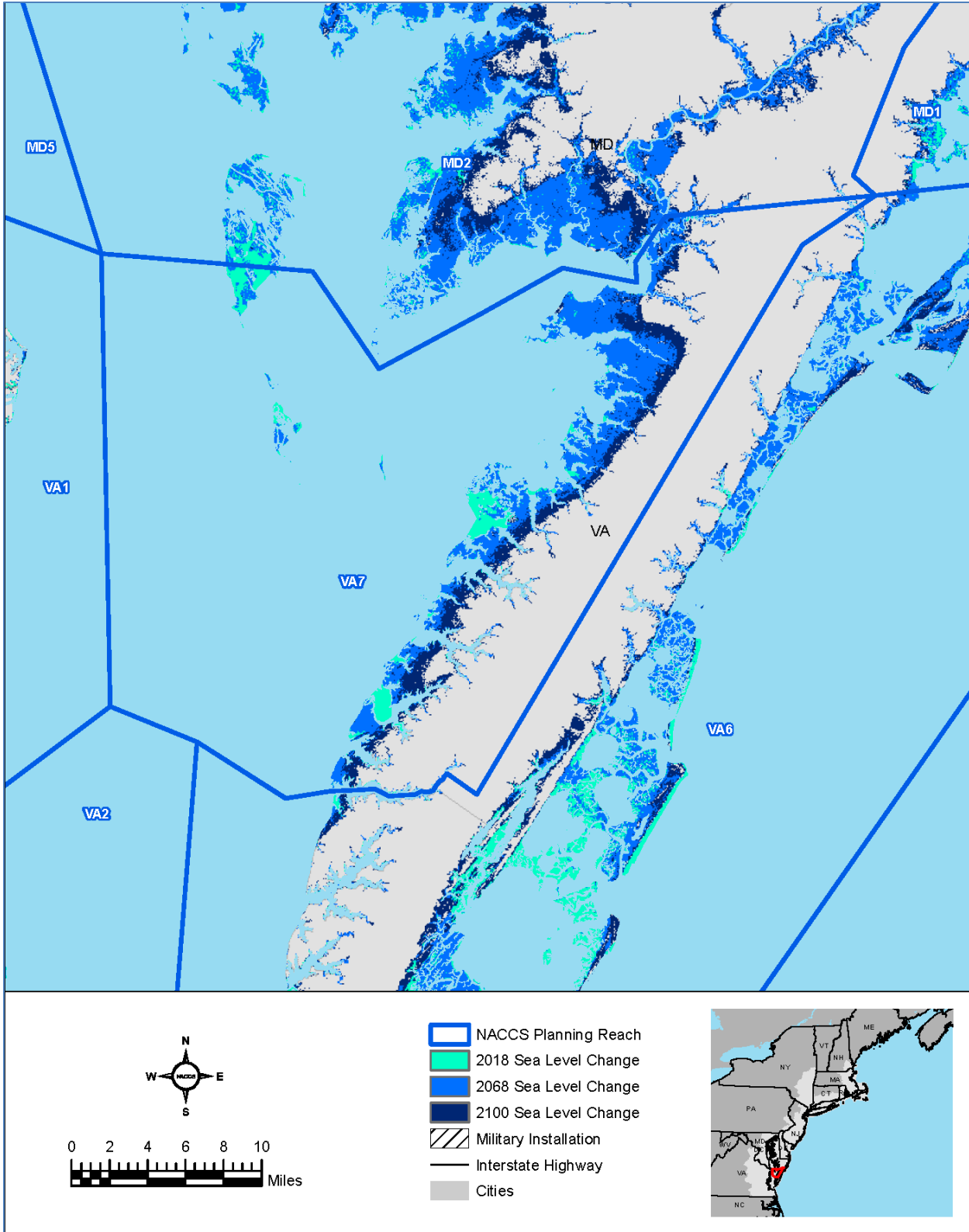


Figure IIg-22: USACE High Scenario Future Mean Sea Level Change Inundation (VA7)

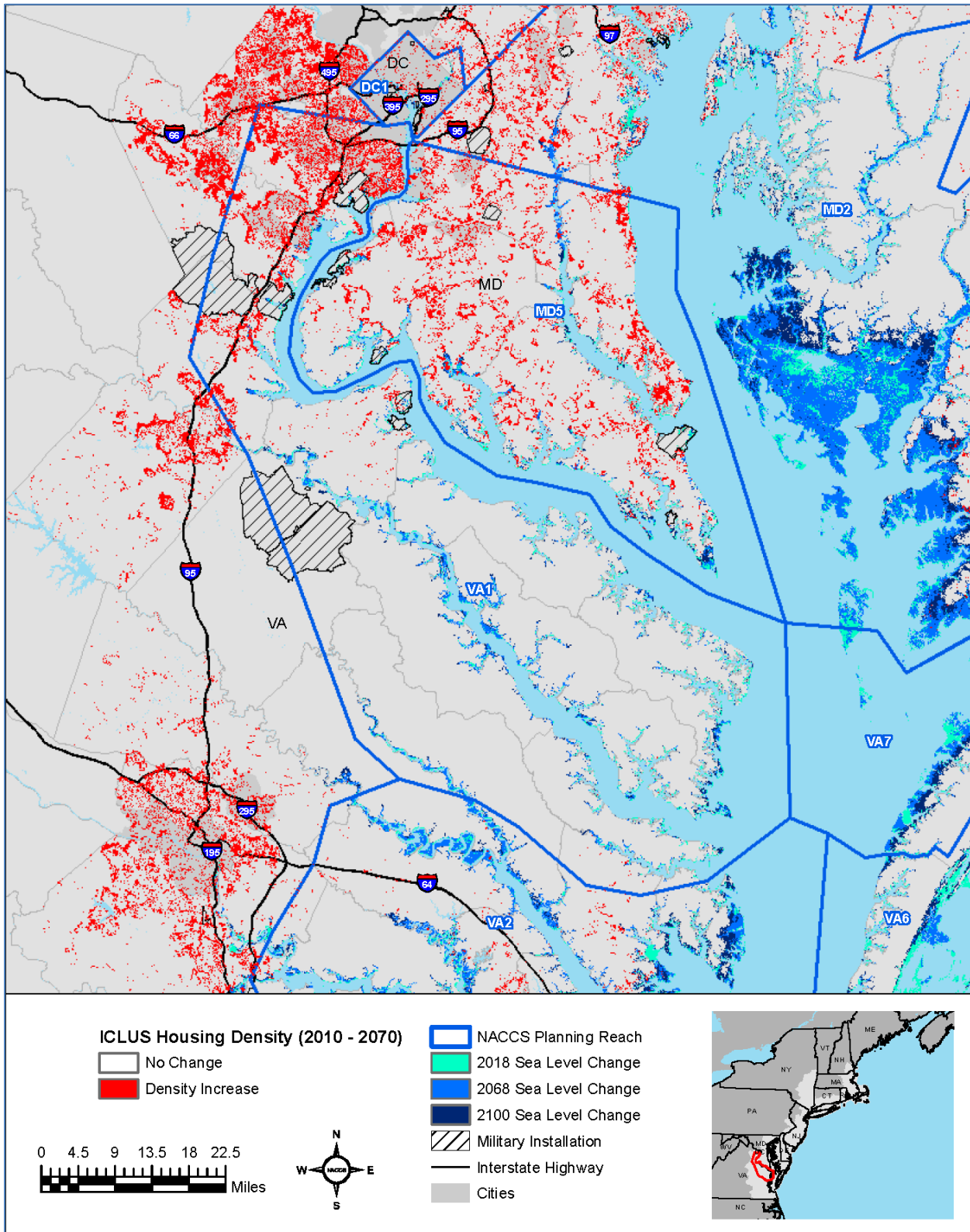


Figure 11g-23: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (VA1)

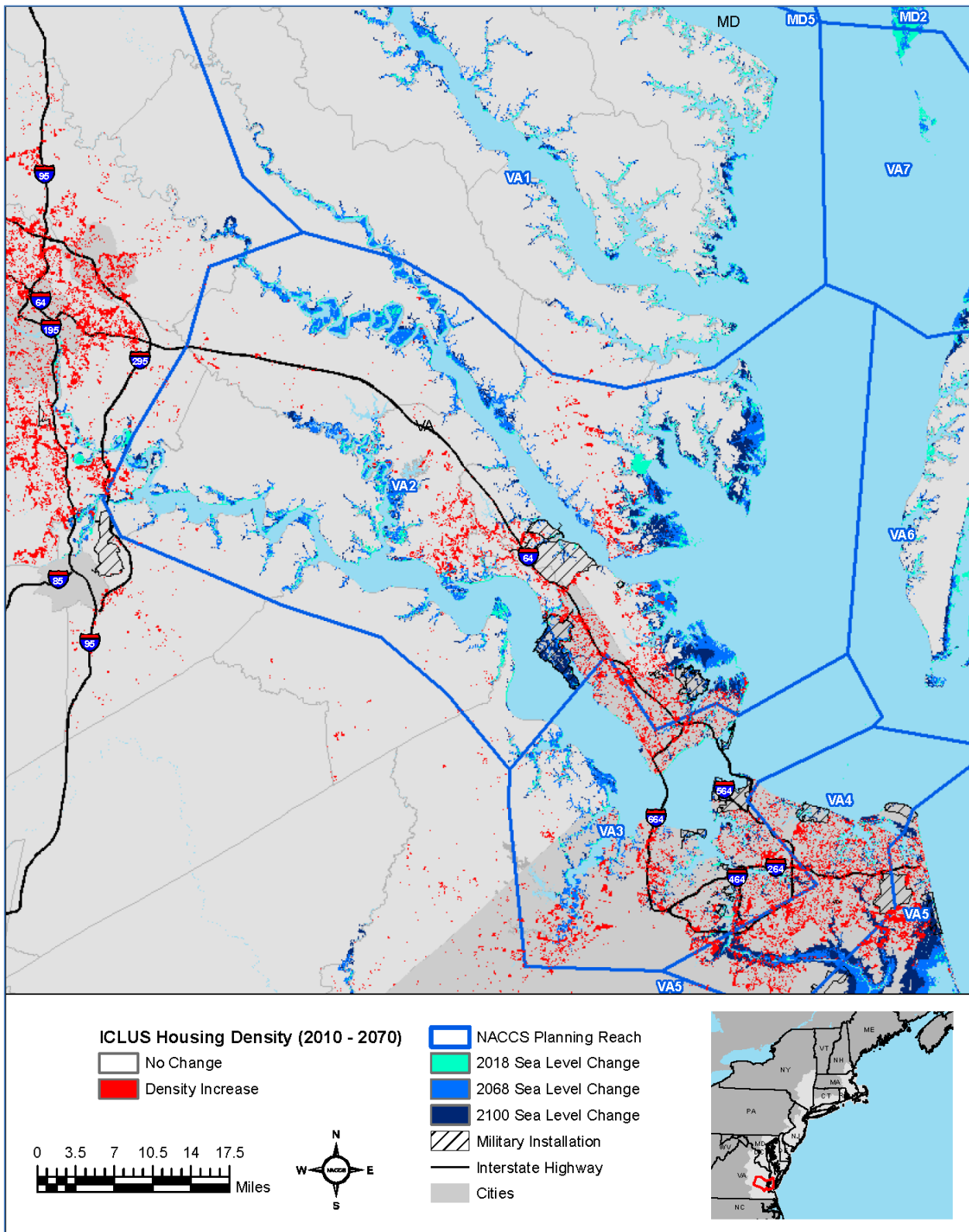


Figure 11g-24: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (VA2)

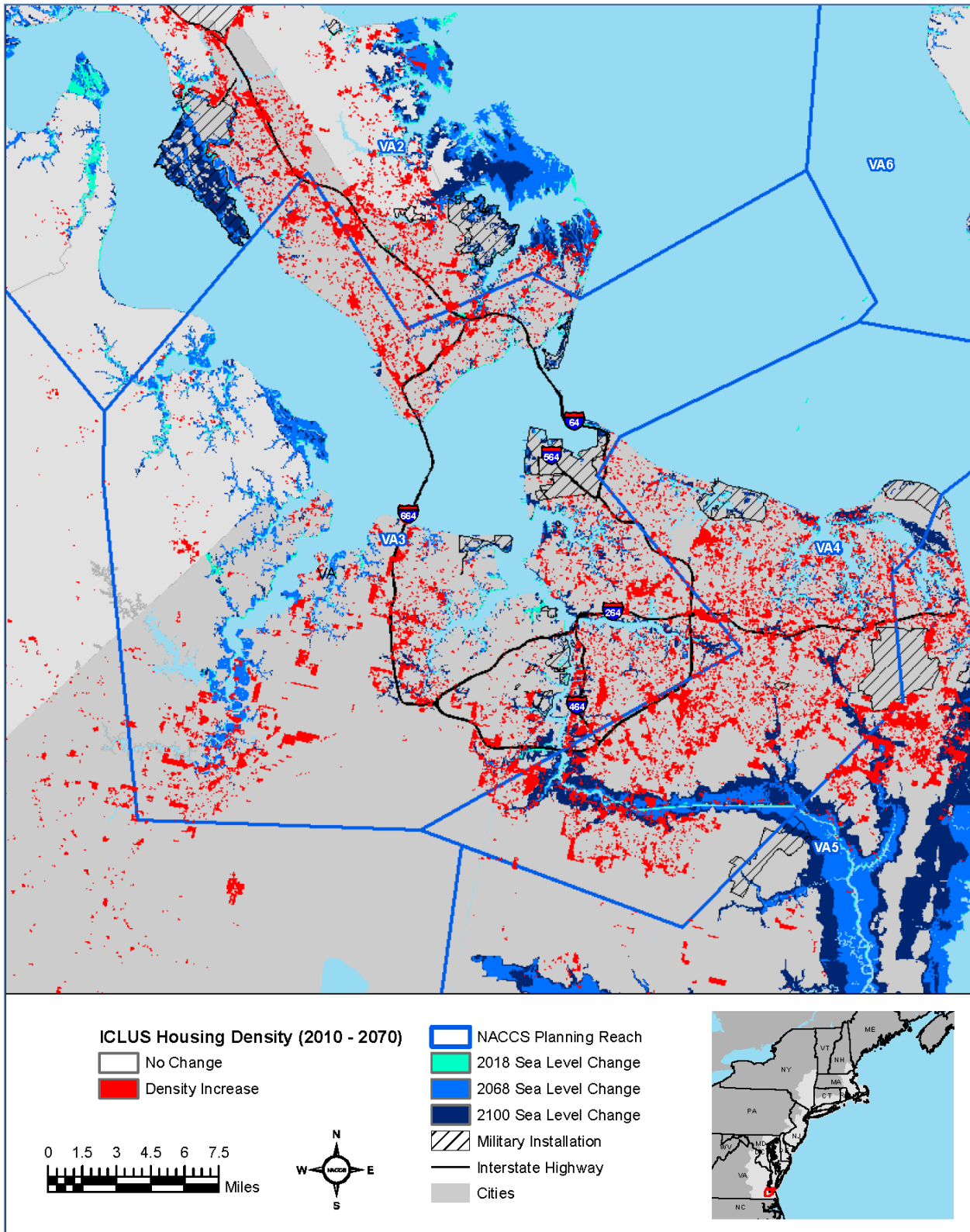


Figure 11g-25: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (VA3)

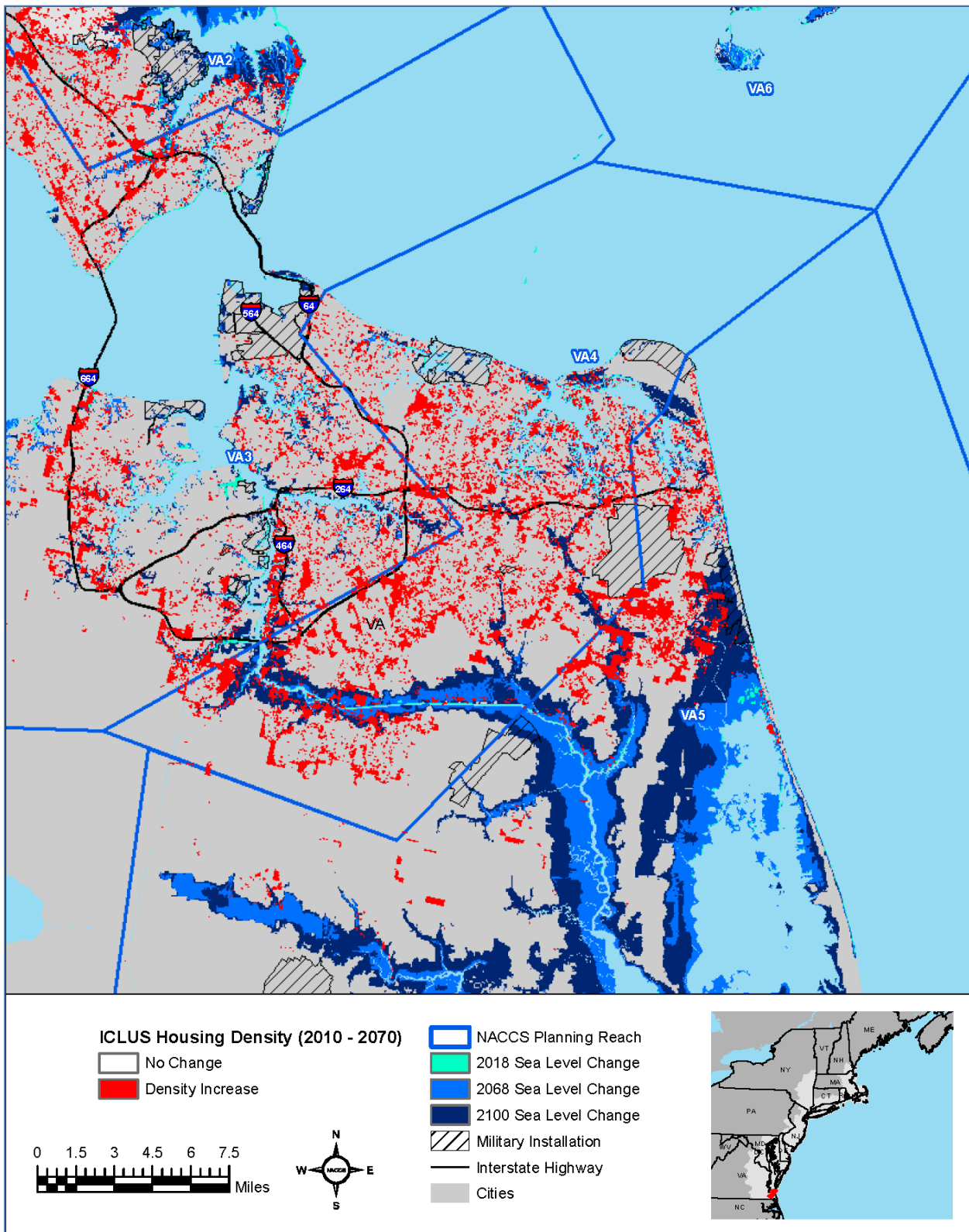


Figure 11g-26: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (VA4)

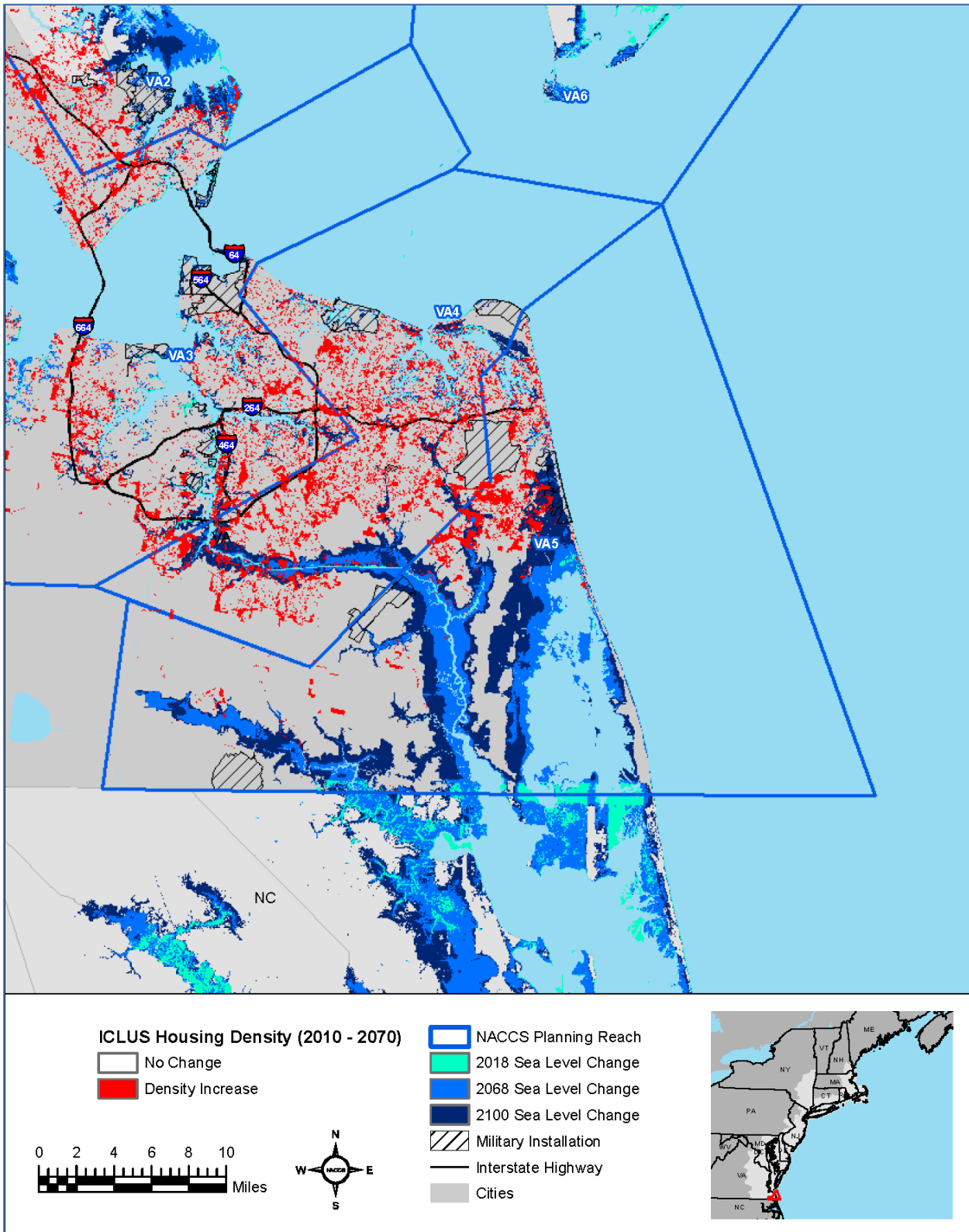


Figure 11g-27: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (VA5)

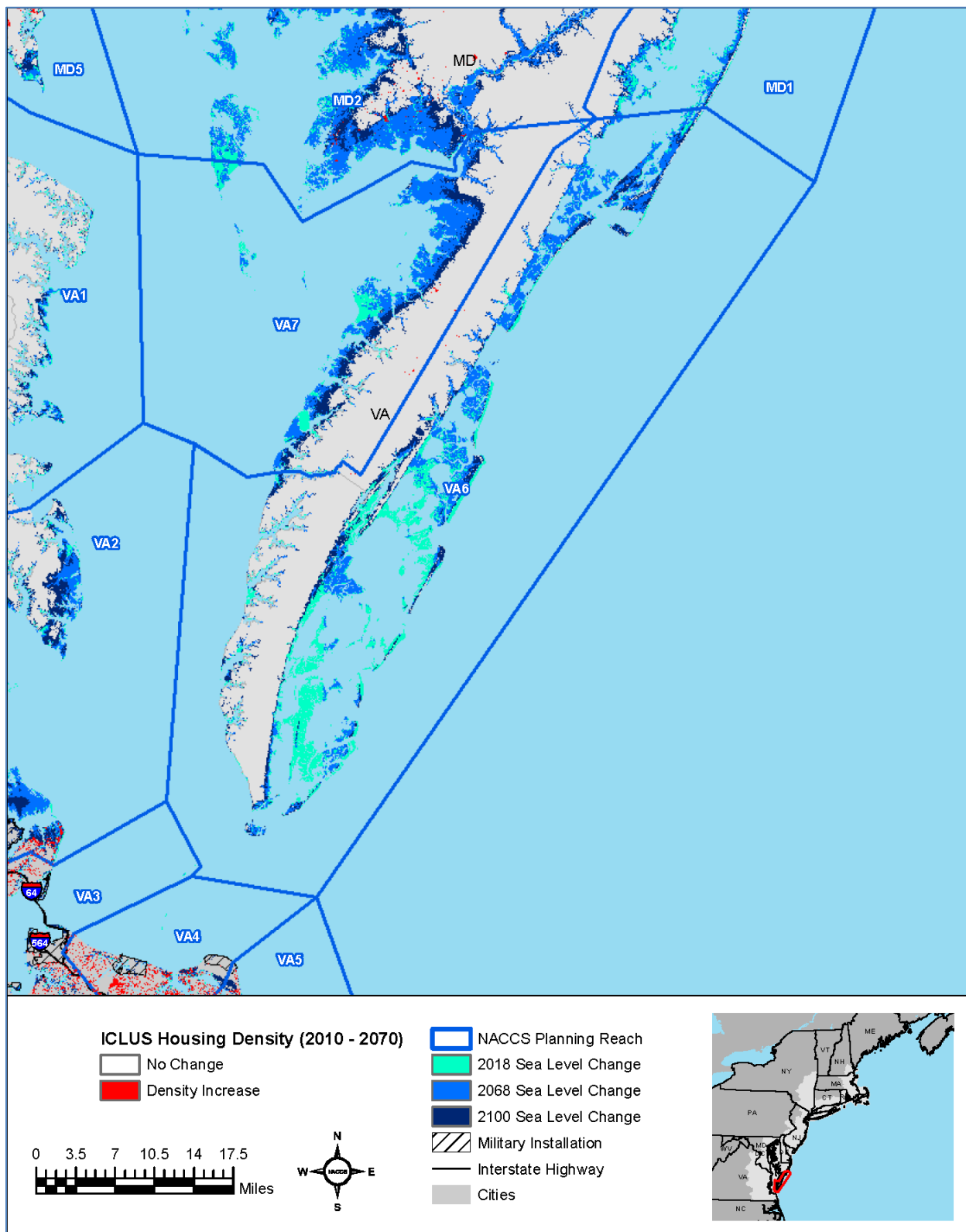


Figure 11g-28: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (VA6)

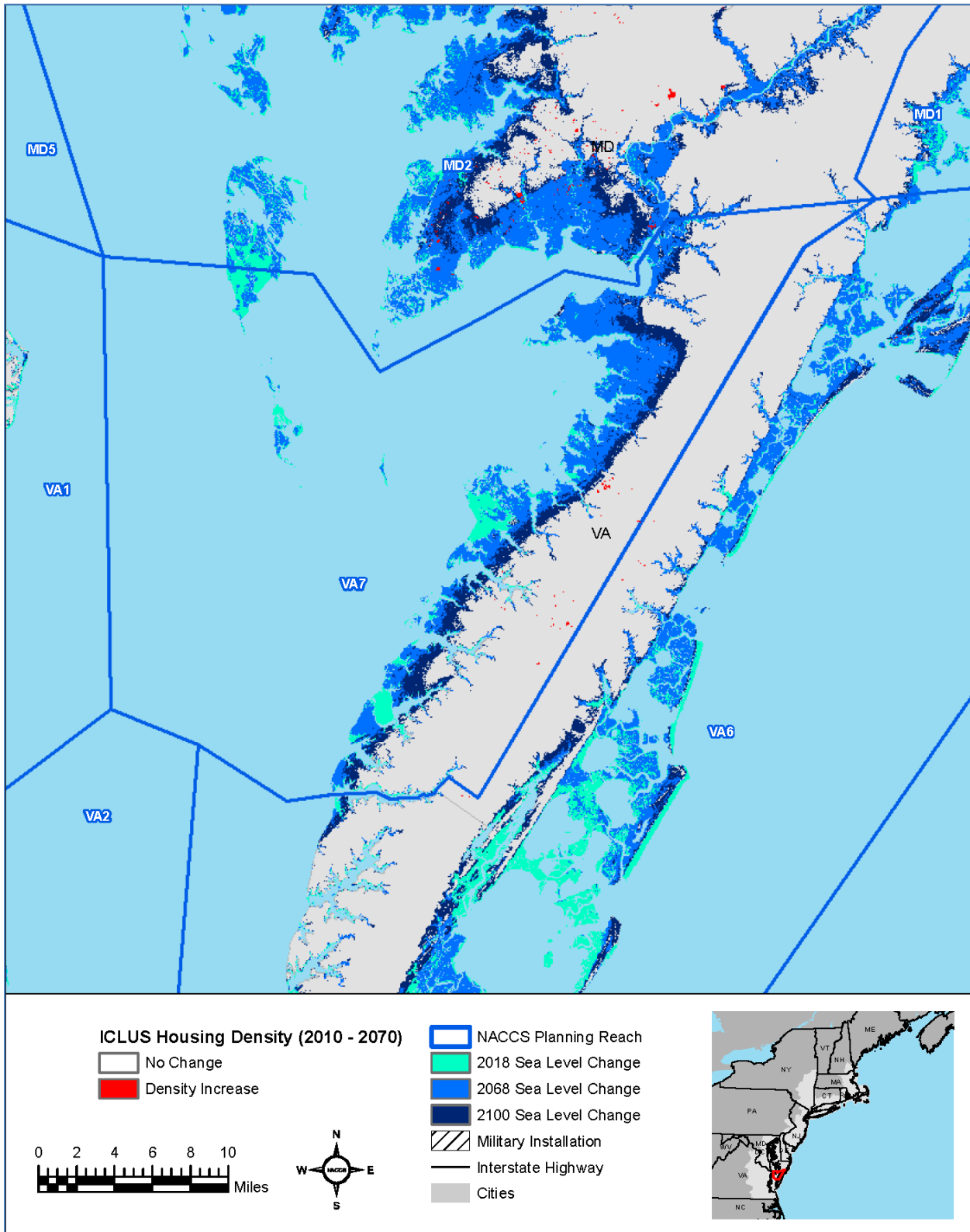


Figure 11g-29: USACE High Scenario Future Mean Sea Level Change Inundation and Forecasted Residential Development Density Increase (VA7)

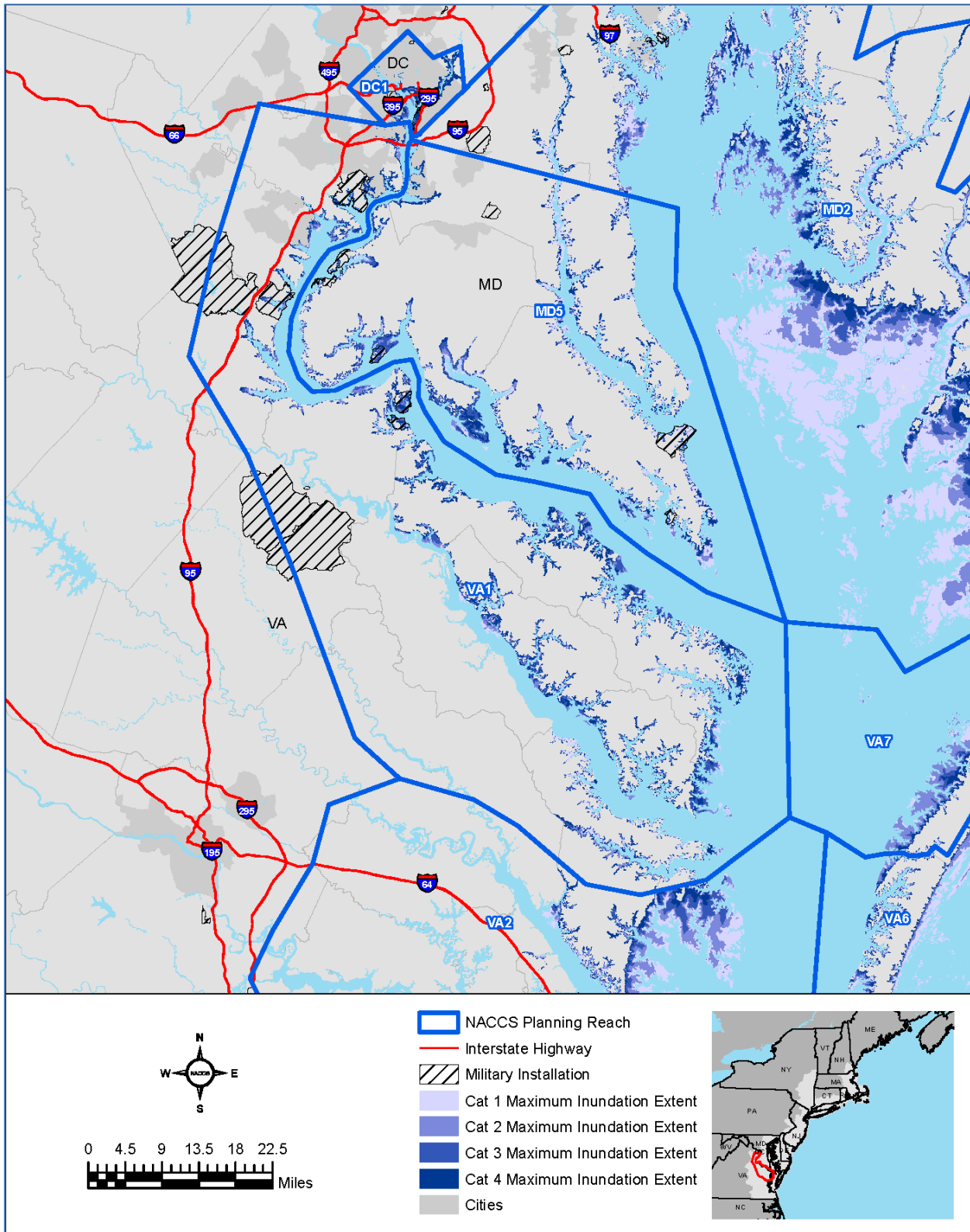


Figure IIg-30: Impacted Area Category 1-4 Water Levels (VA1)

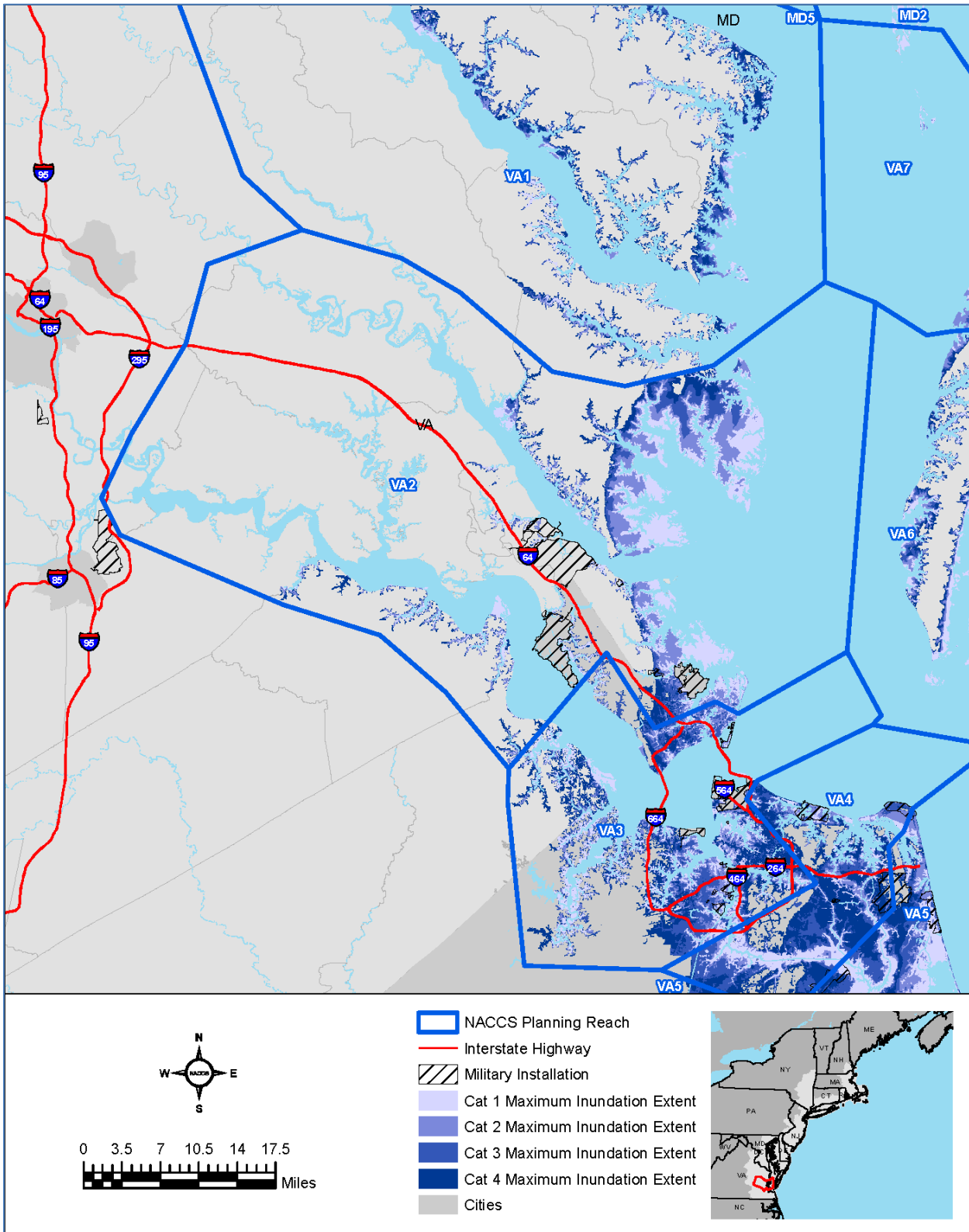


Figure IIg-31: Impacted Area Category 1-4 Water Levels (VA2)

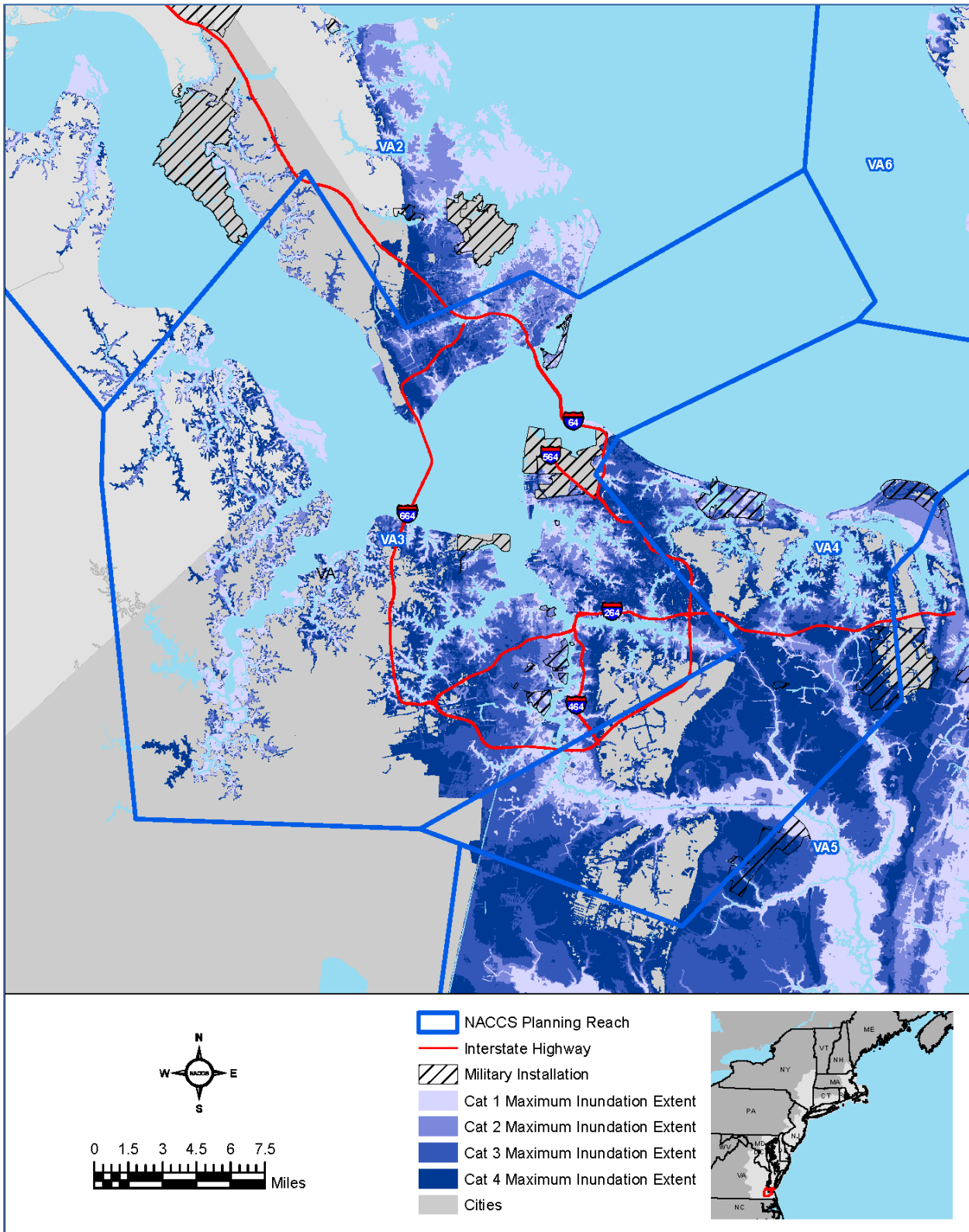


Figure IIg-32: Impacted Area Category 1-4 Water Levels (VA3)

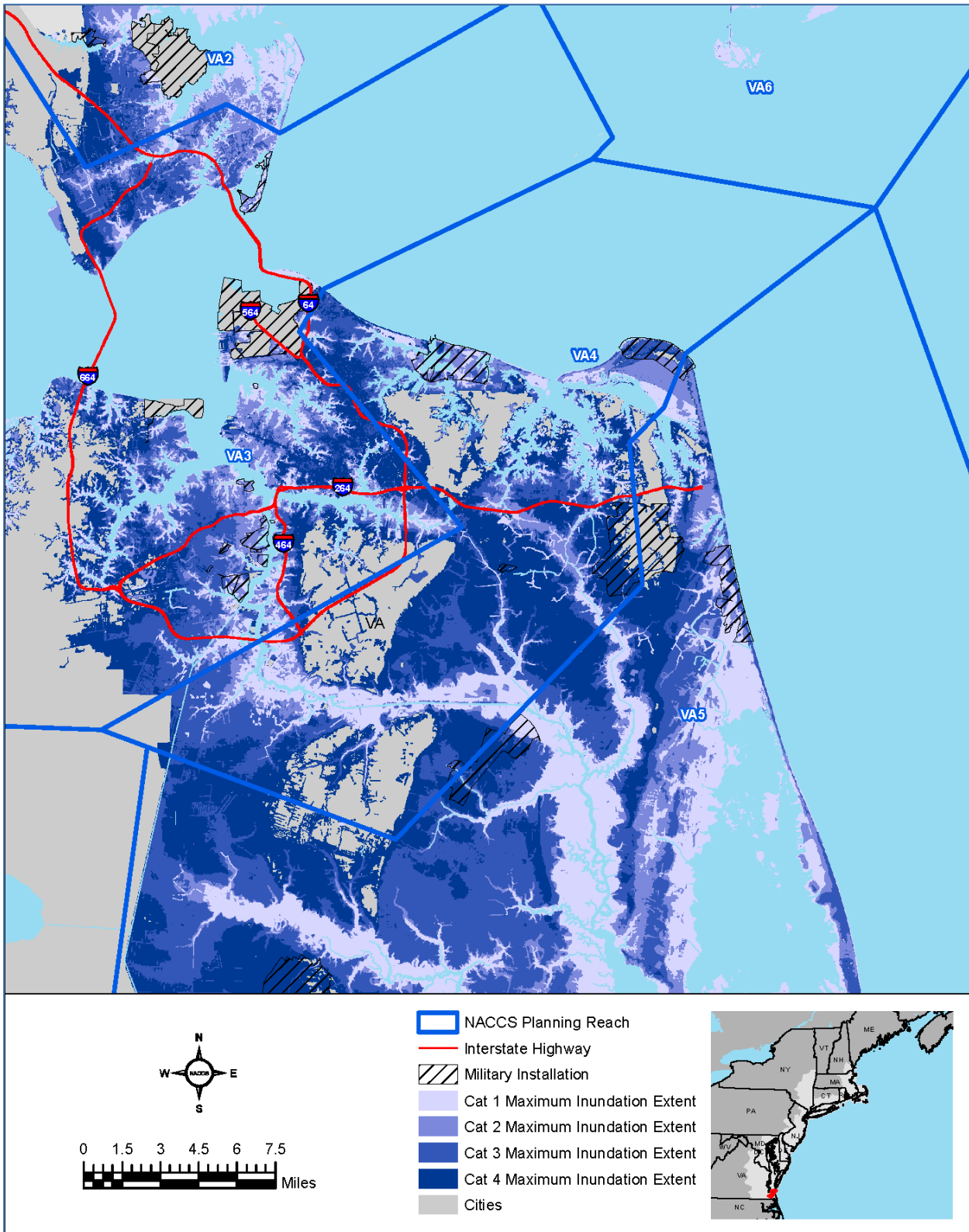


Figure IIg-33: Impacted Area Category 1-4 Water Levels (VA4)

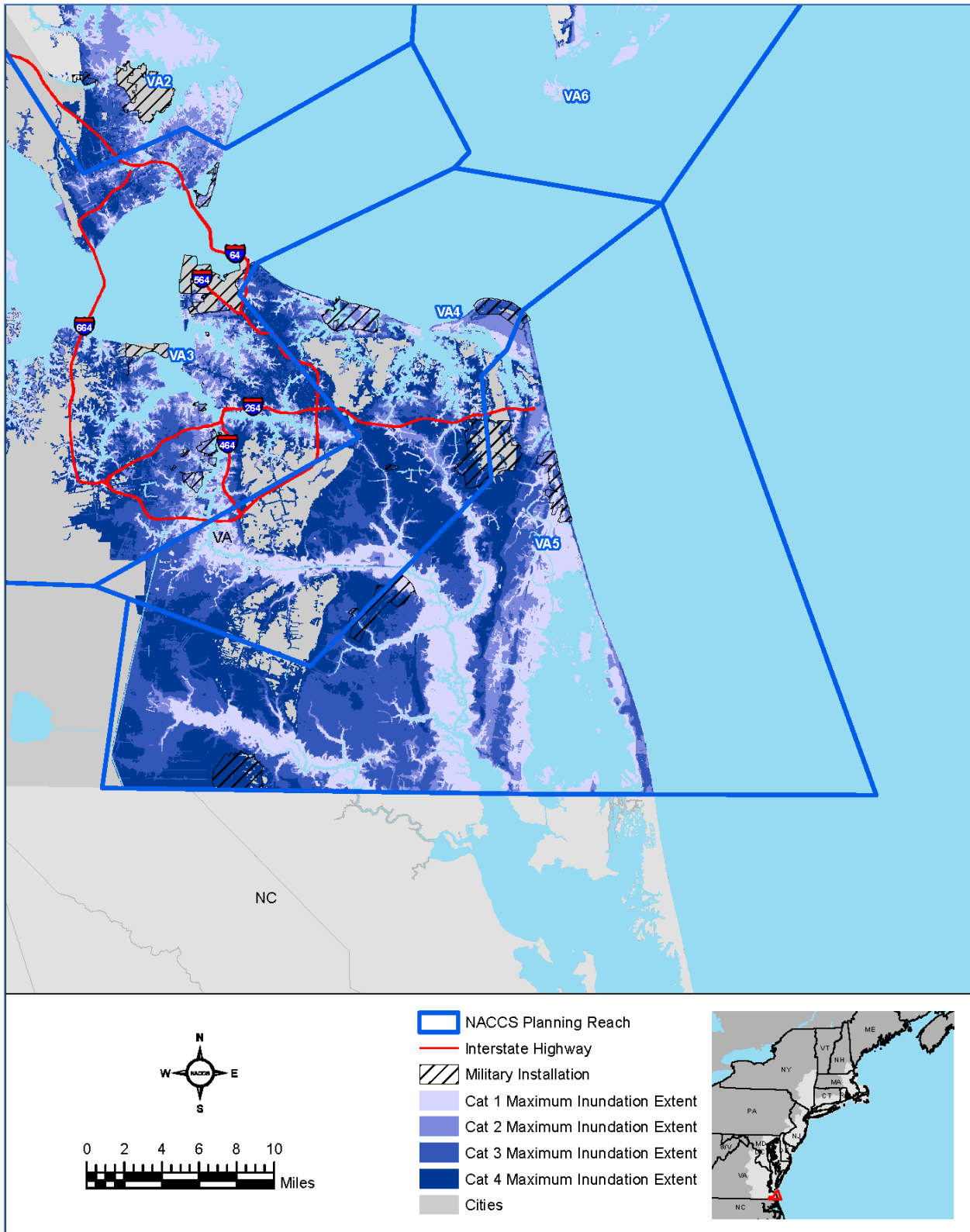


Figure IIg-34: Impacted Area Category 1-4 Water Levels (VA5)

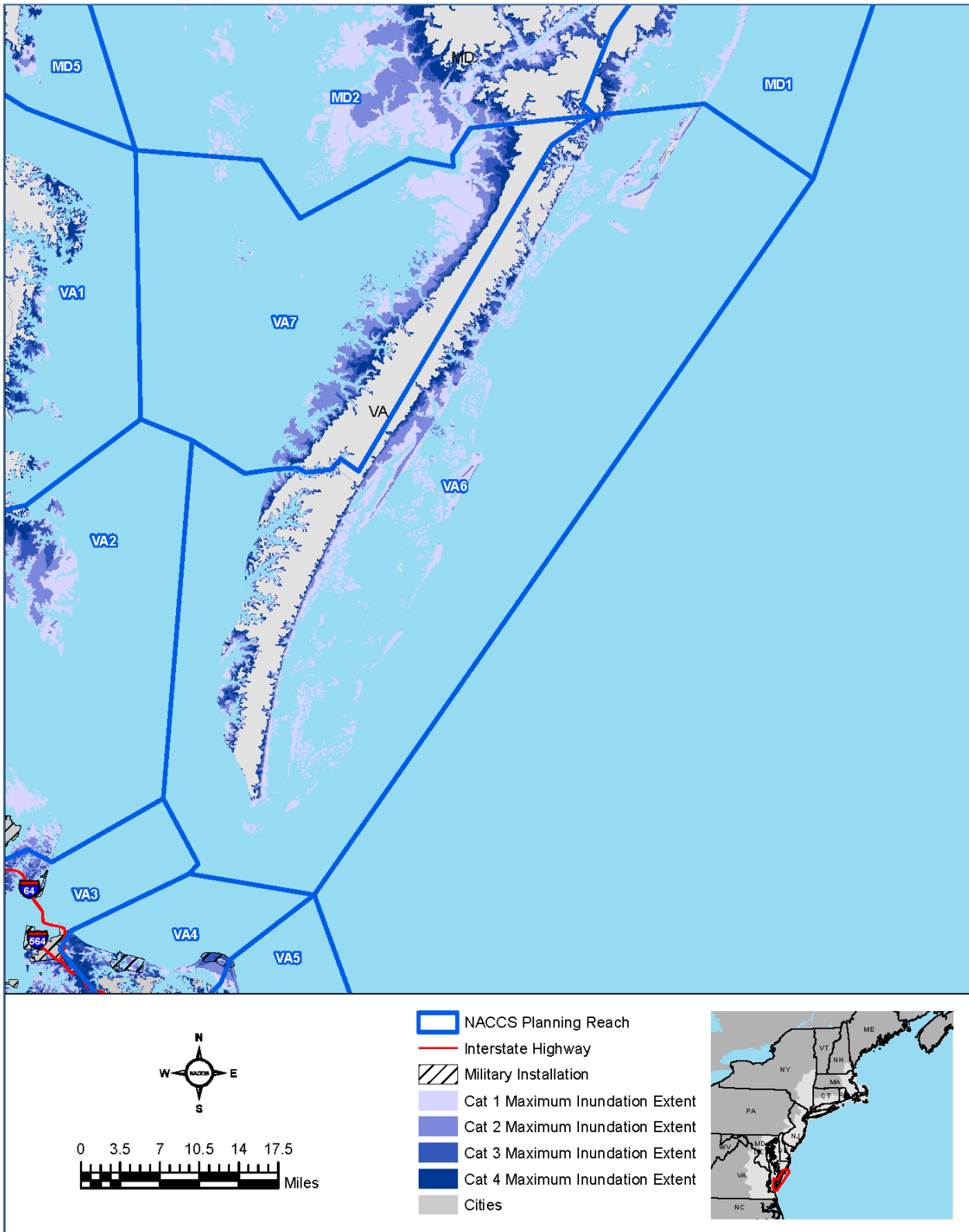


Figure 11g-35: Impacted Area Category 1-4 Water Levels (VA6)

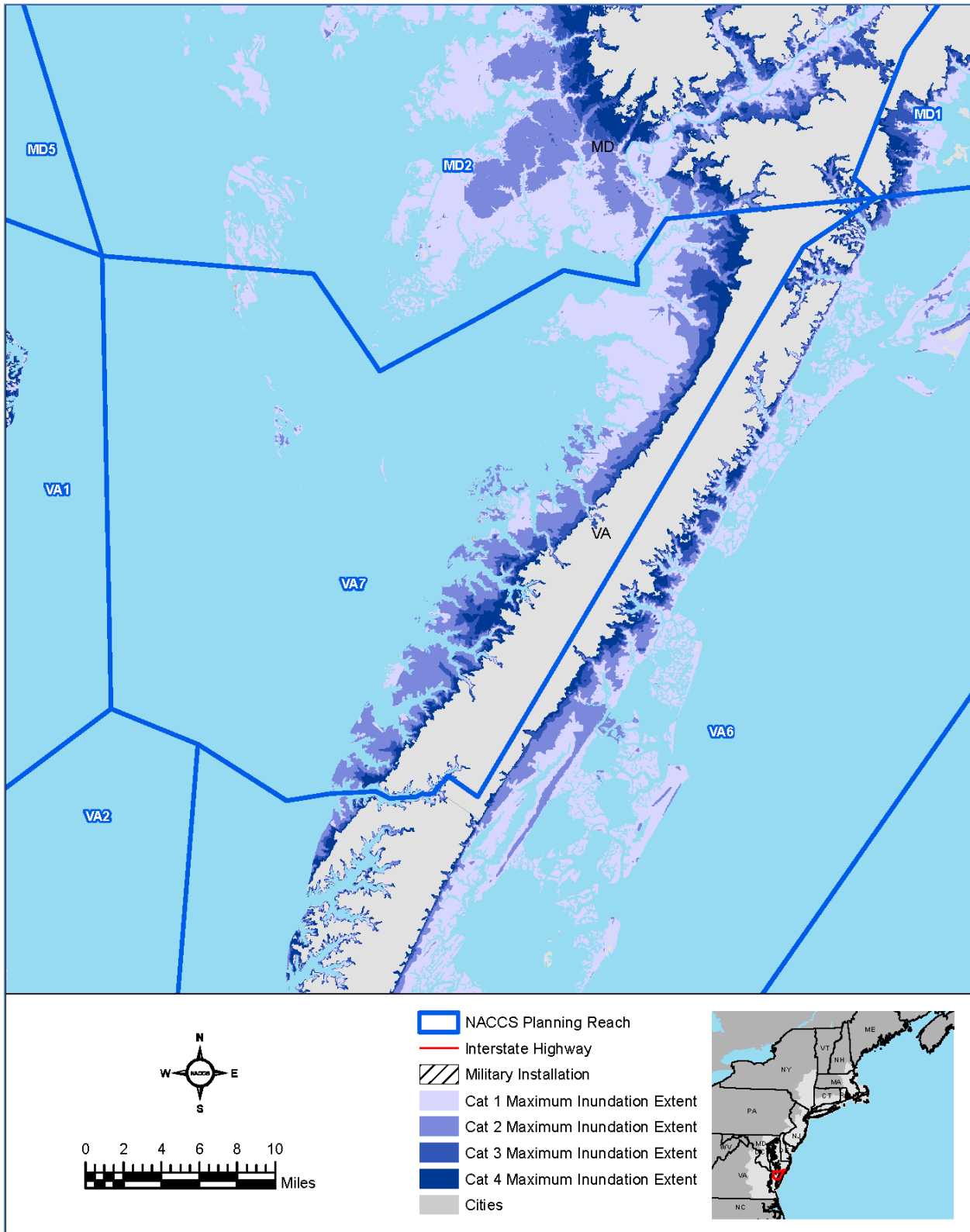


Figure IIg-36: Impacted Area Category 1-4 Water Levels (VA7)

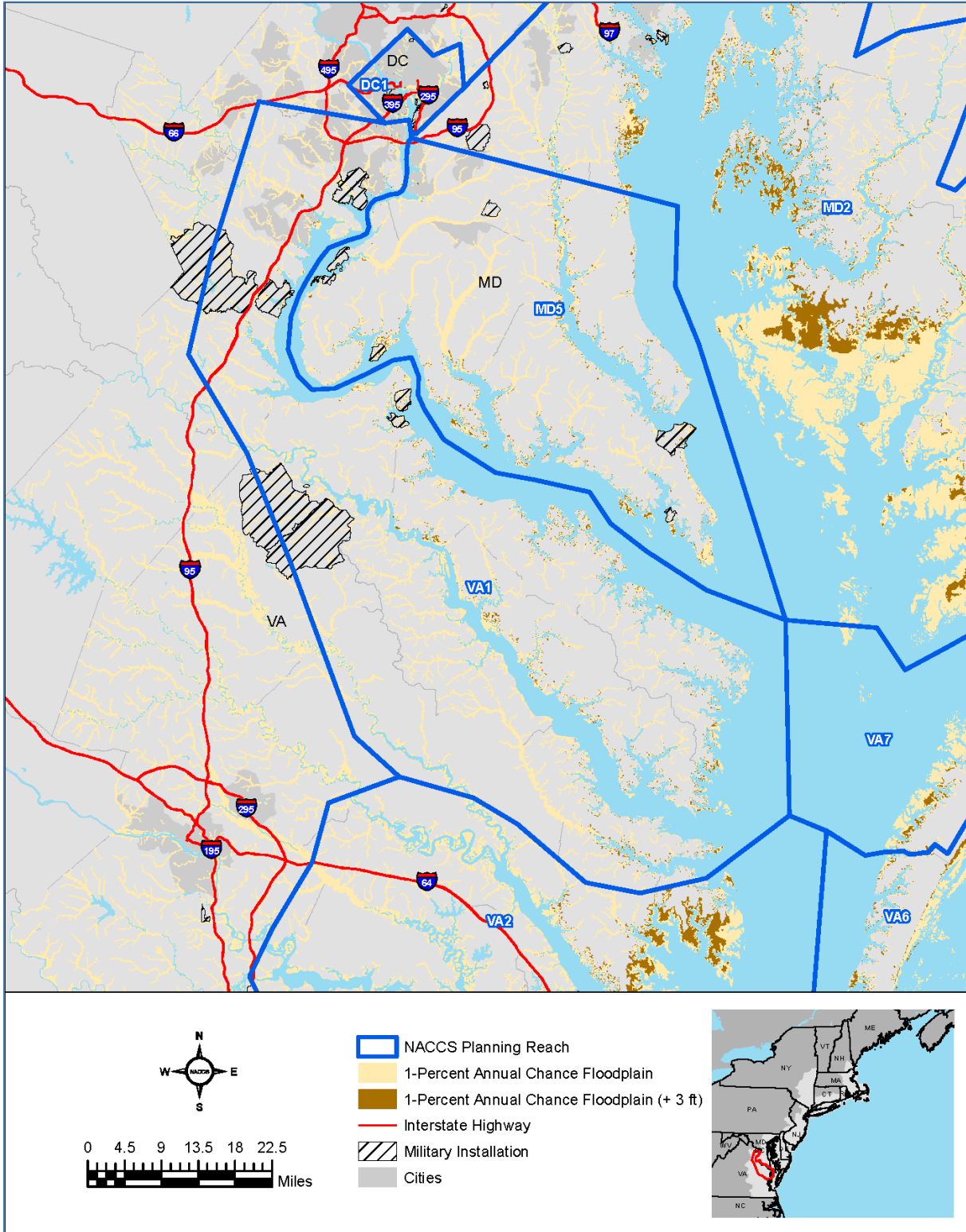


Figure IIg-37: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (VA1)

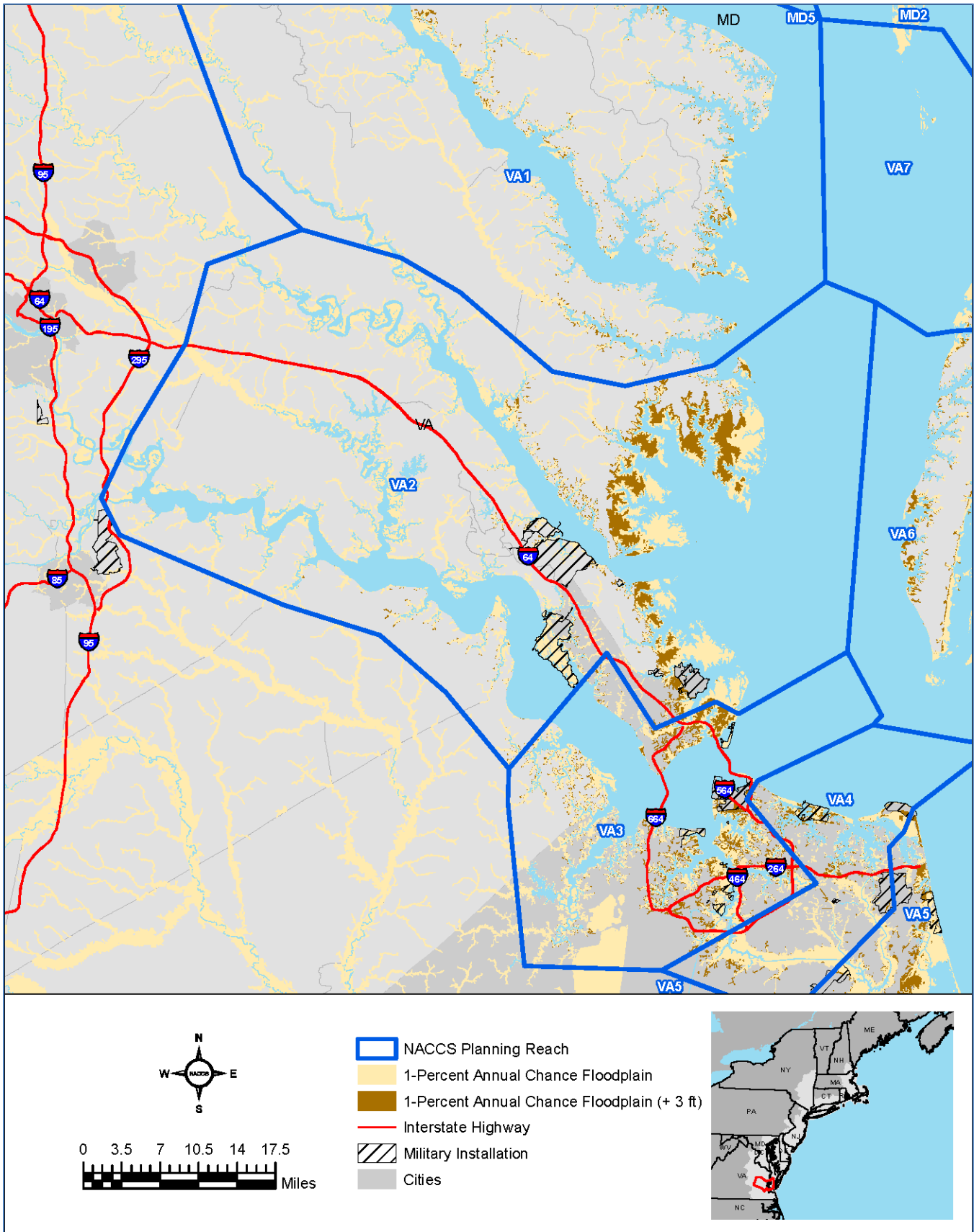


Figure IIg-38: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (VA2)

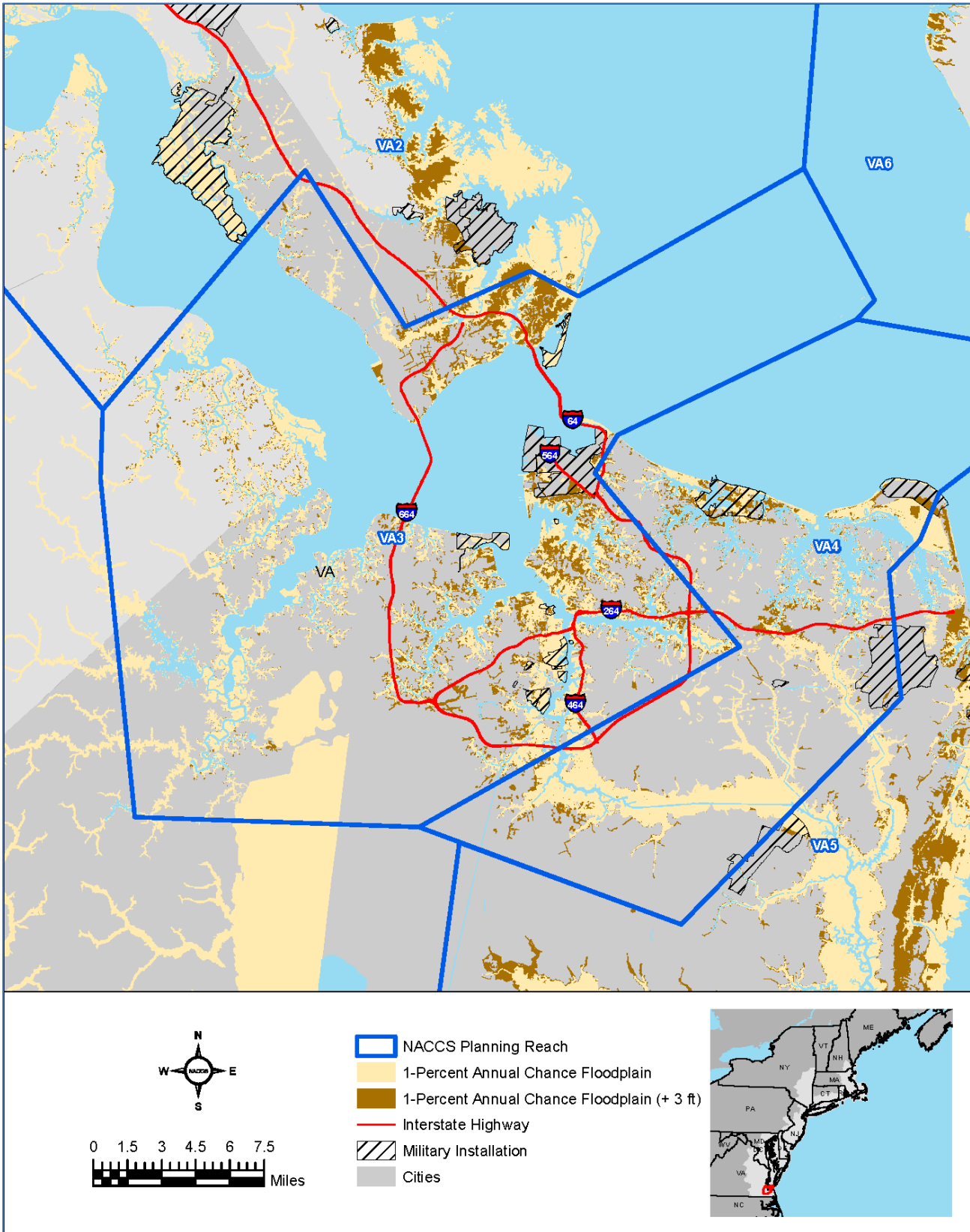


Figure 11g-39: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (VA3)

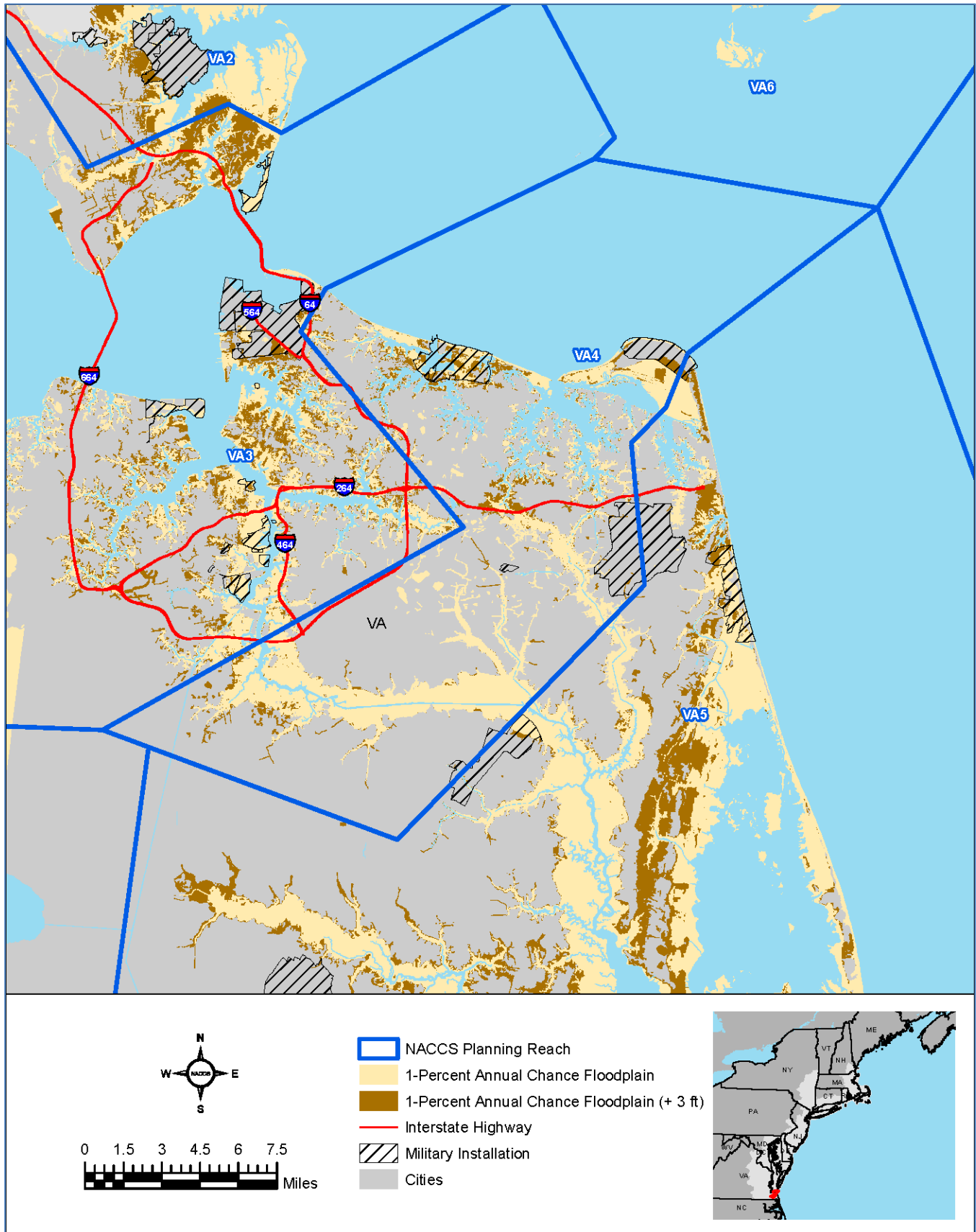


Figure 11g-40: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (VA4)

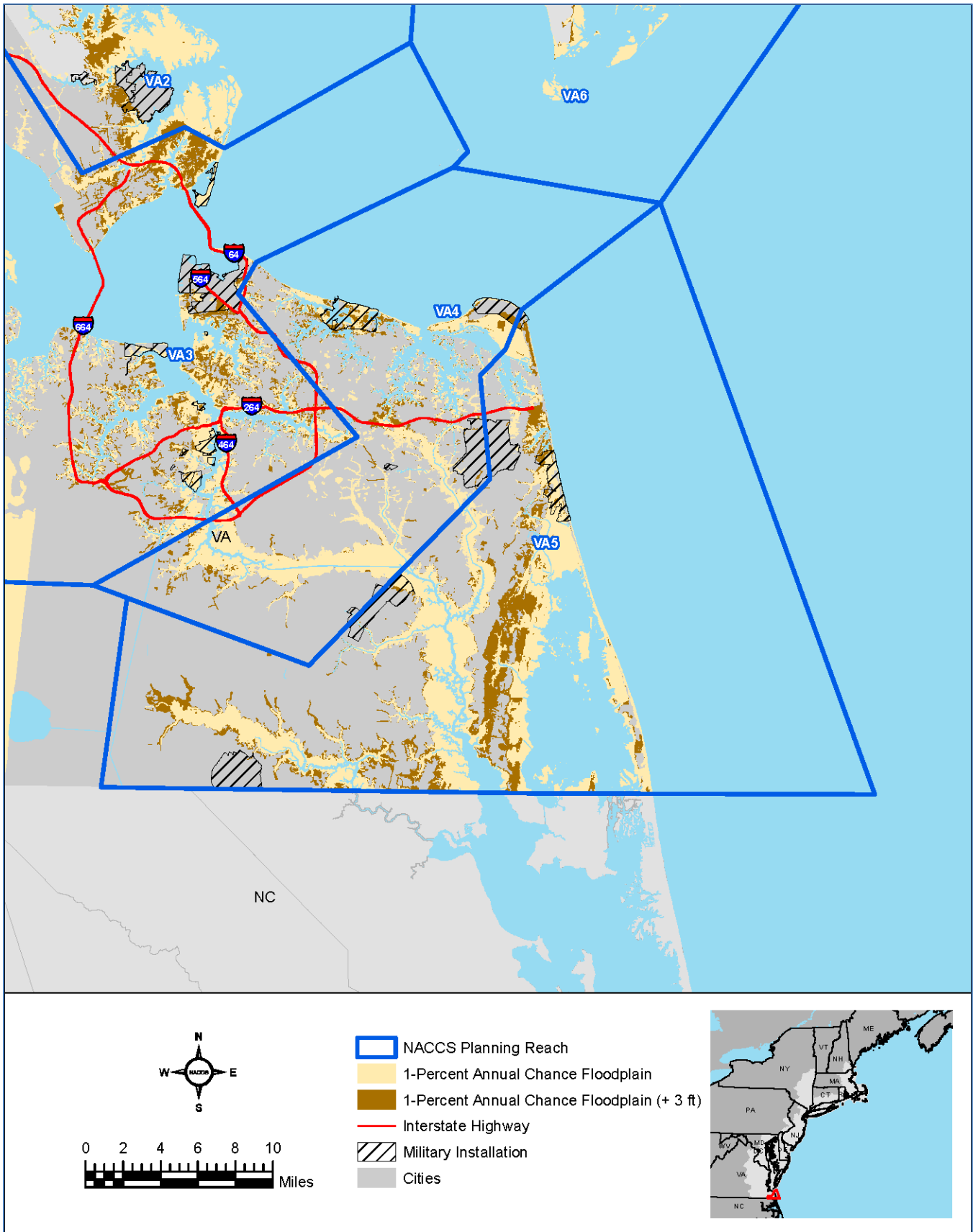


Figure IIg-41: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (VA5)

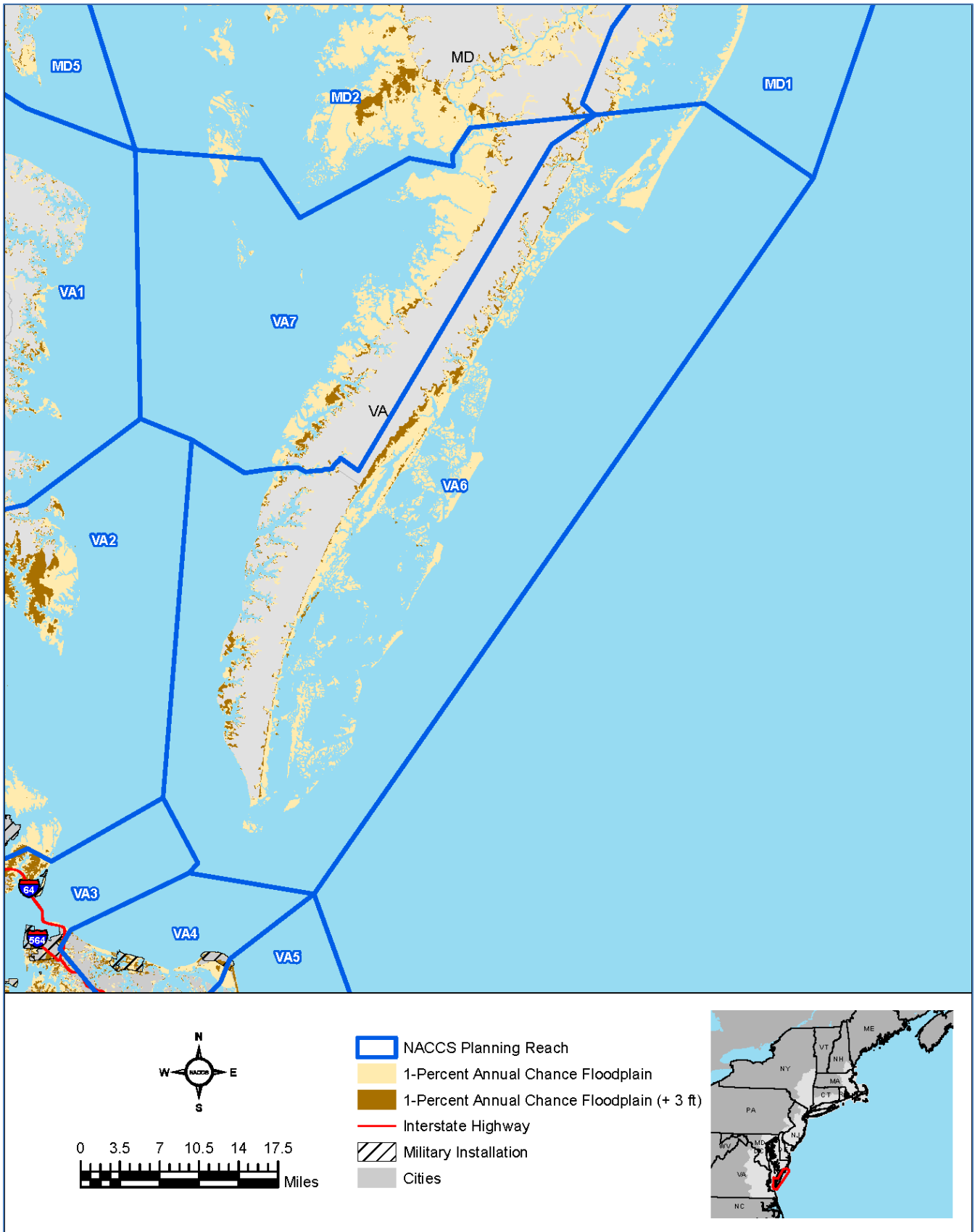


Figure IIg-42: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (VA6)

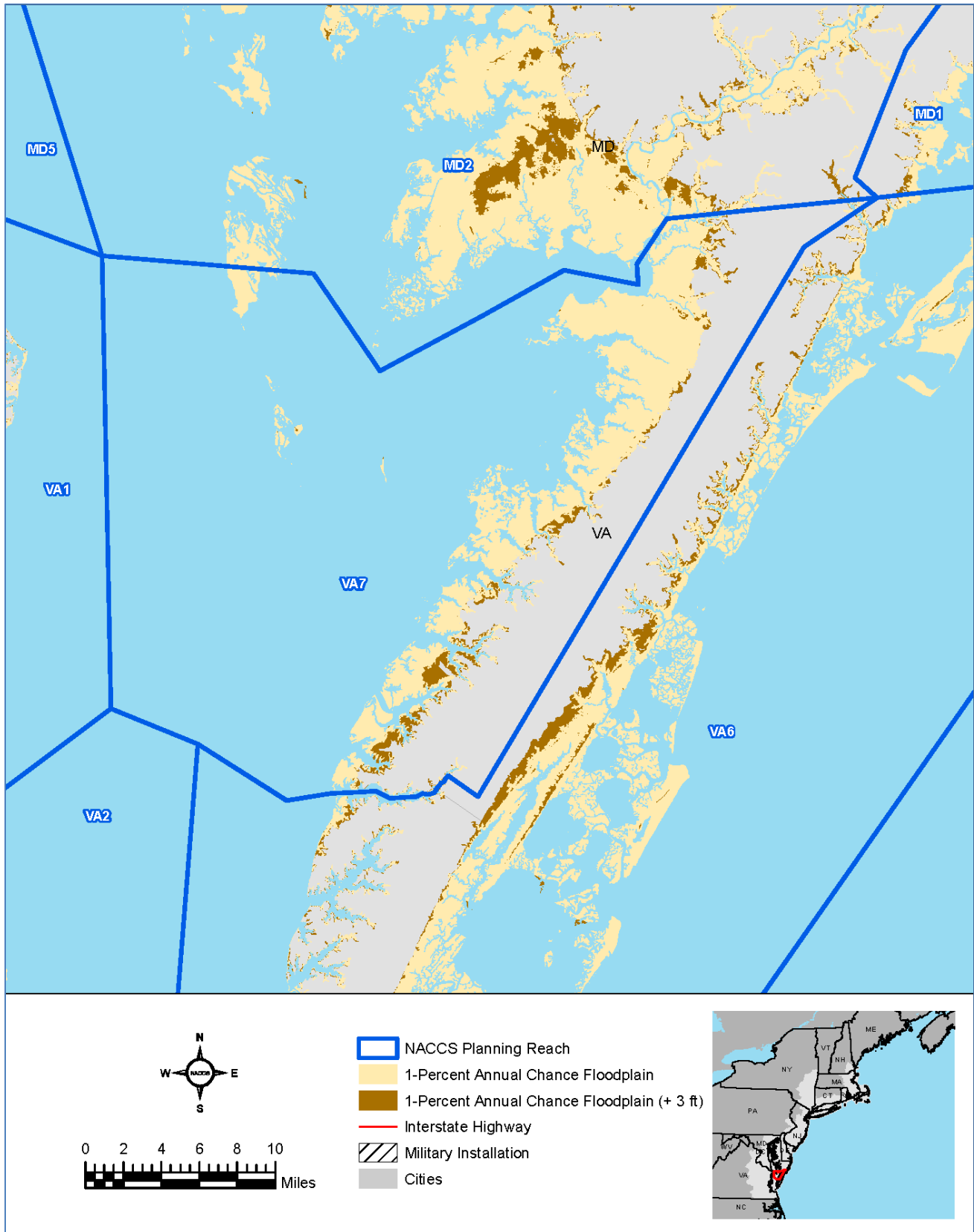


Figure IIg-43: Impacted Area 1-Percent Flood Plus 3 Feet Water Surface (VA7)

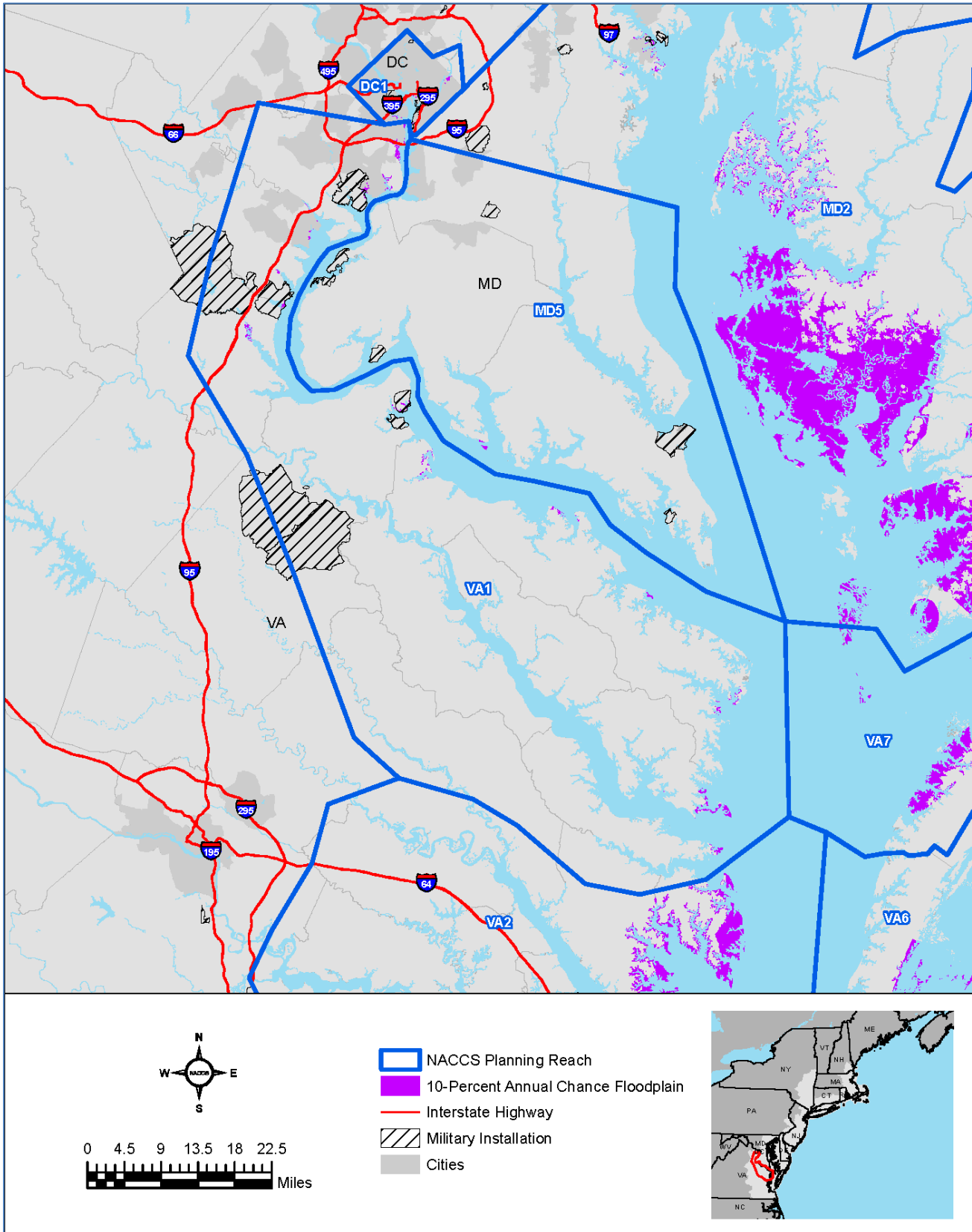


Figure IIg-44: Impacted Area 10-Percent Flood Water Surface (VA1)

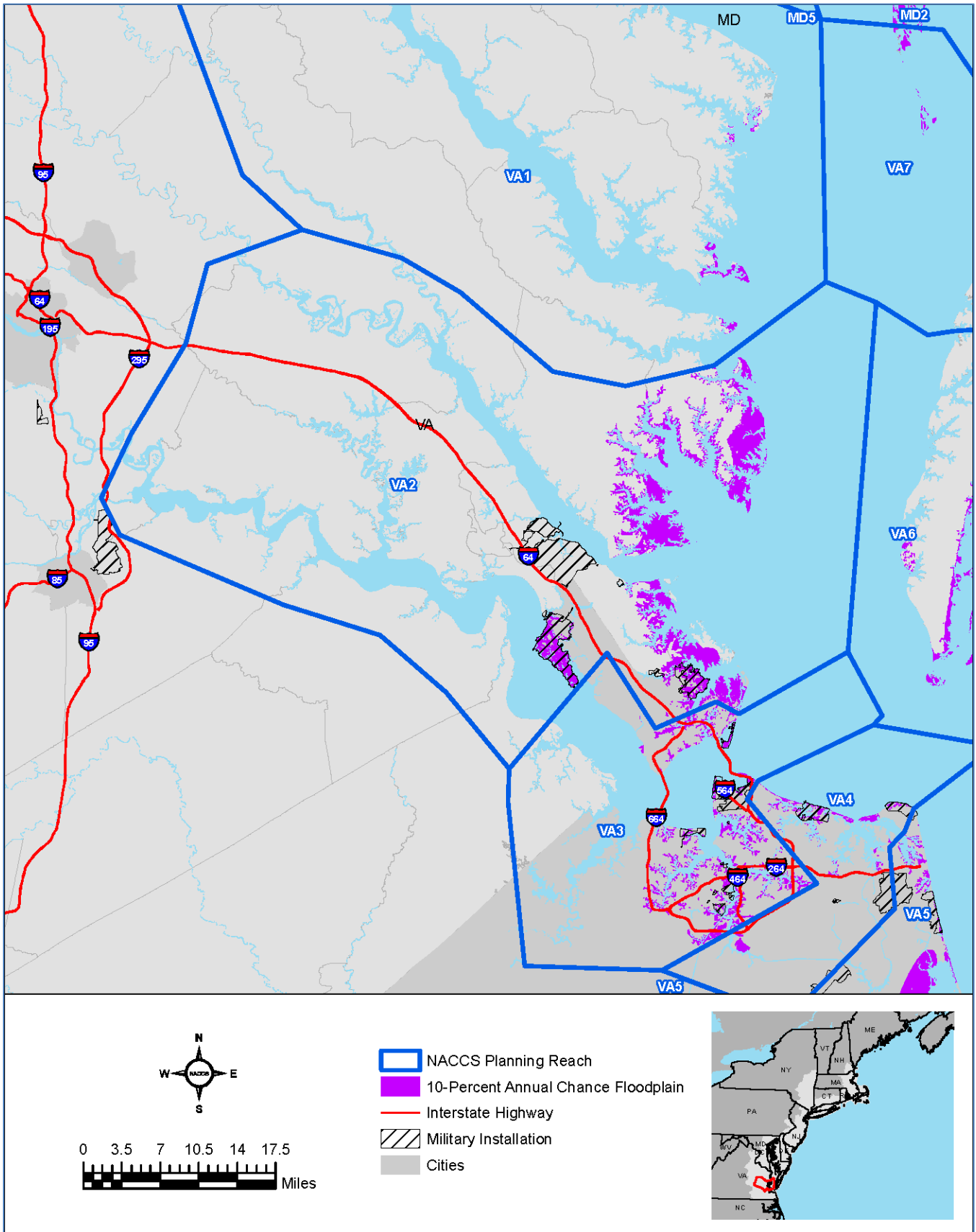


Figure IIg-45: Impacted Area 10-Percent Flood Water Surface (VA2)

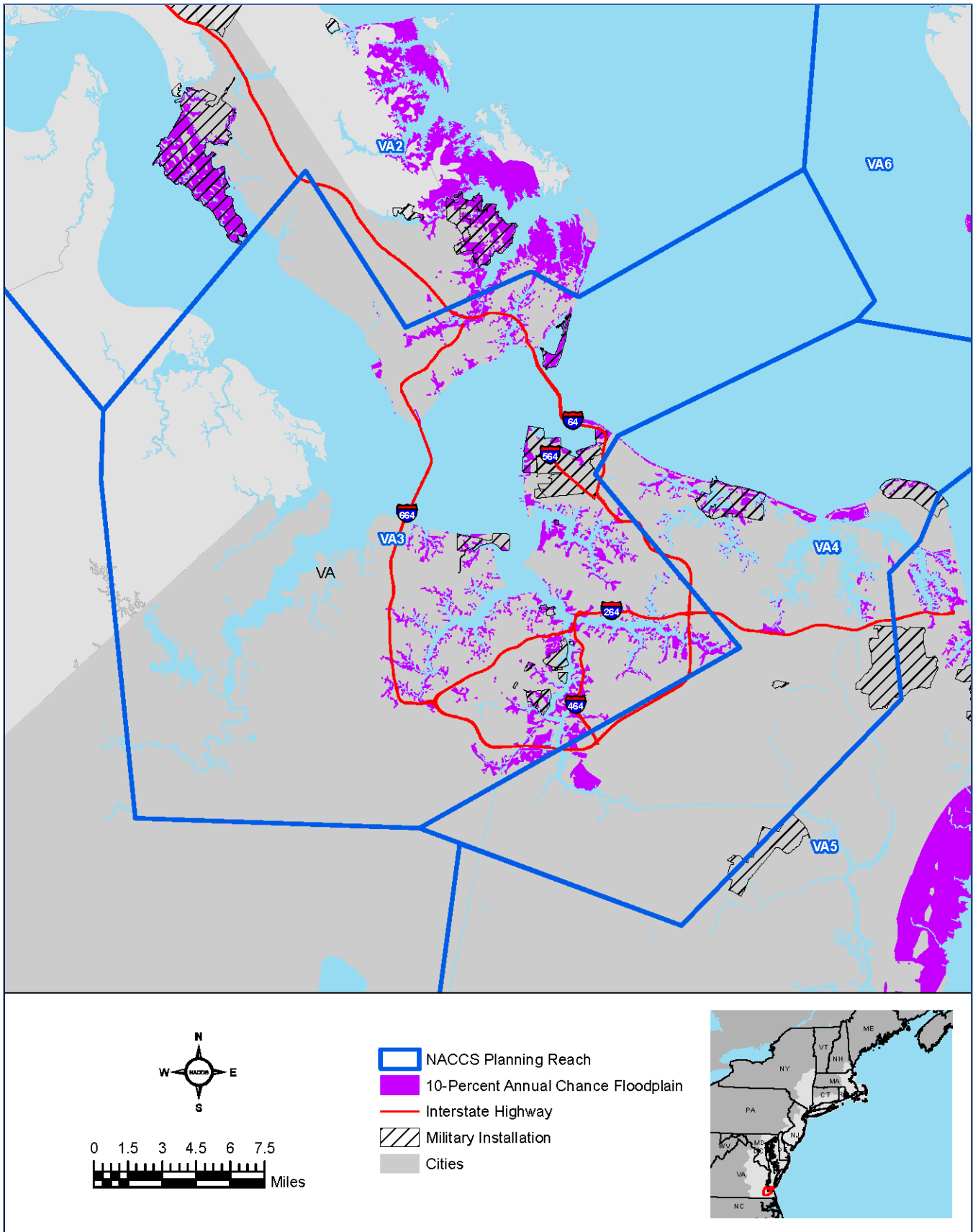


Figure IIg-46: Impacted Area 10-Percent Flood Water Surface (VA3)

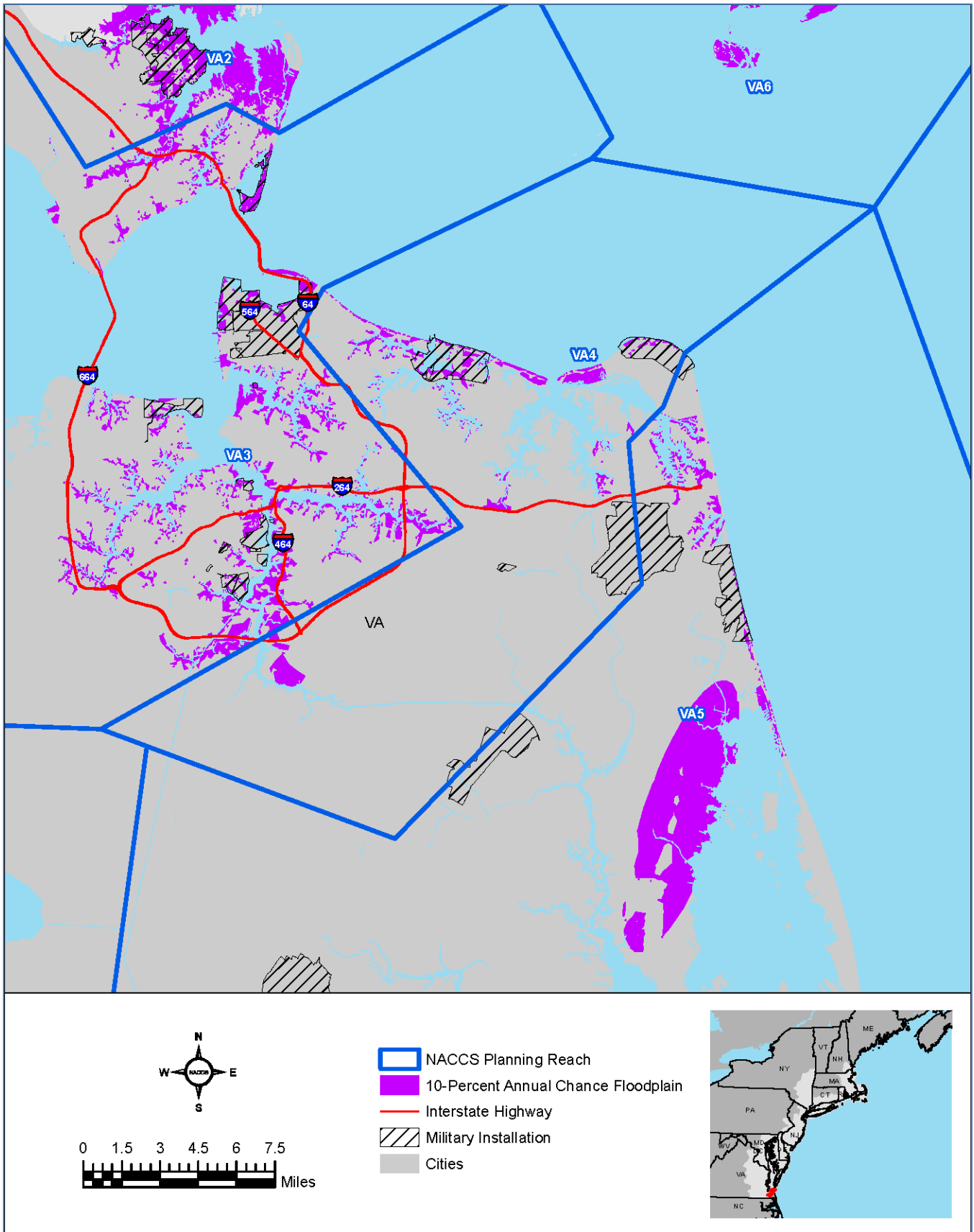


Figure IIg-47: Impacted Area 10-Percent Flood Water Surface (VA4)

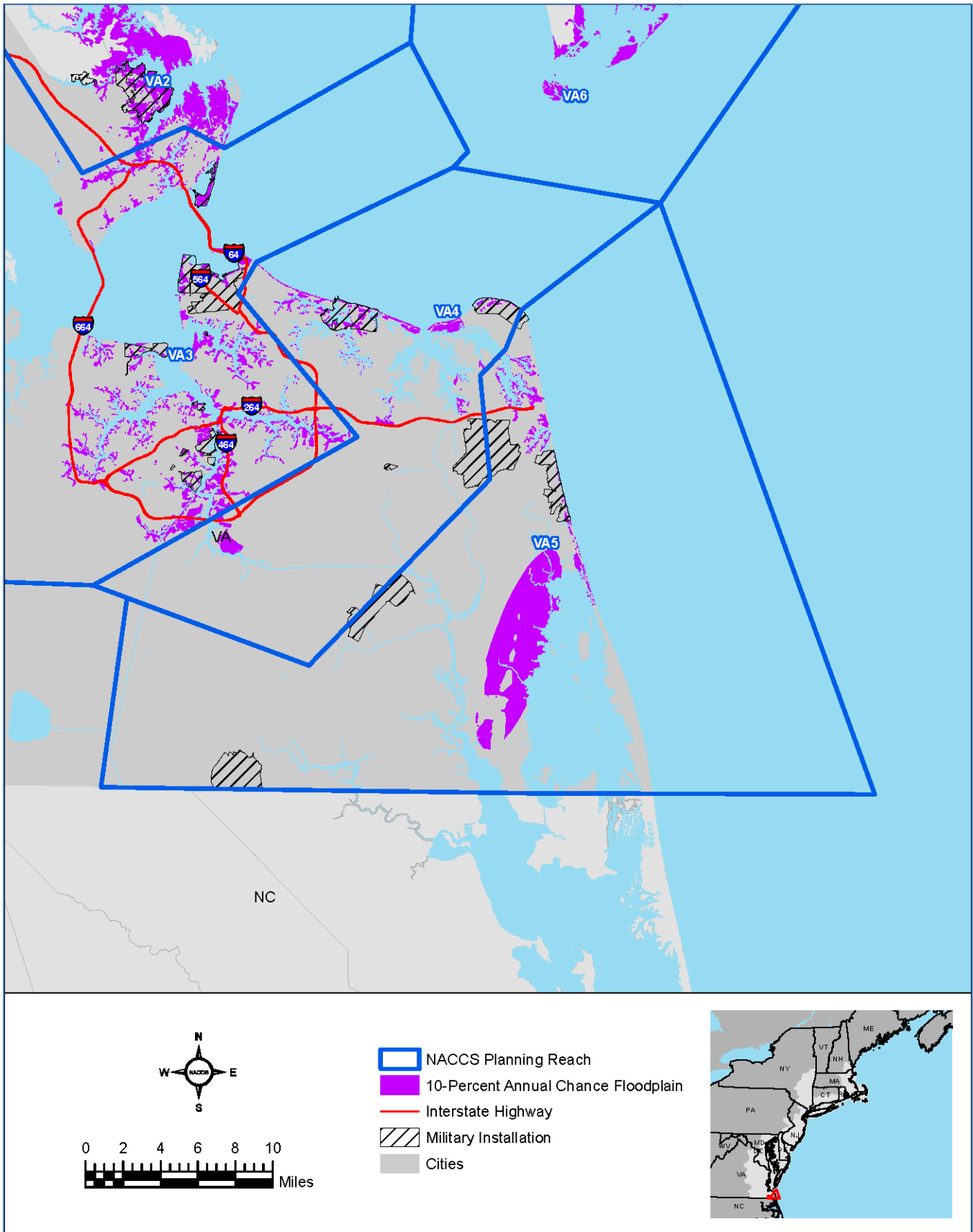


Figure IIg-48: Impacted Area 10-Percent Flood Water Surface (VA5)

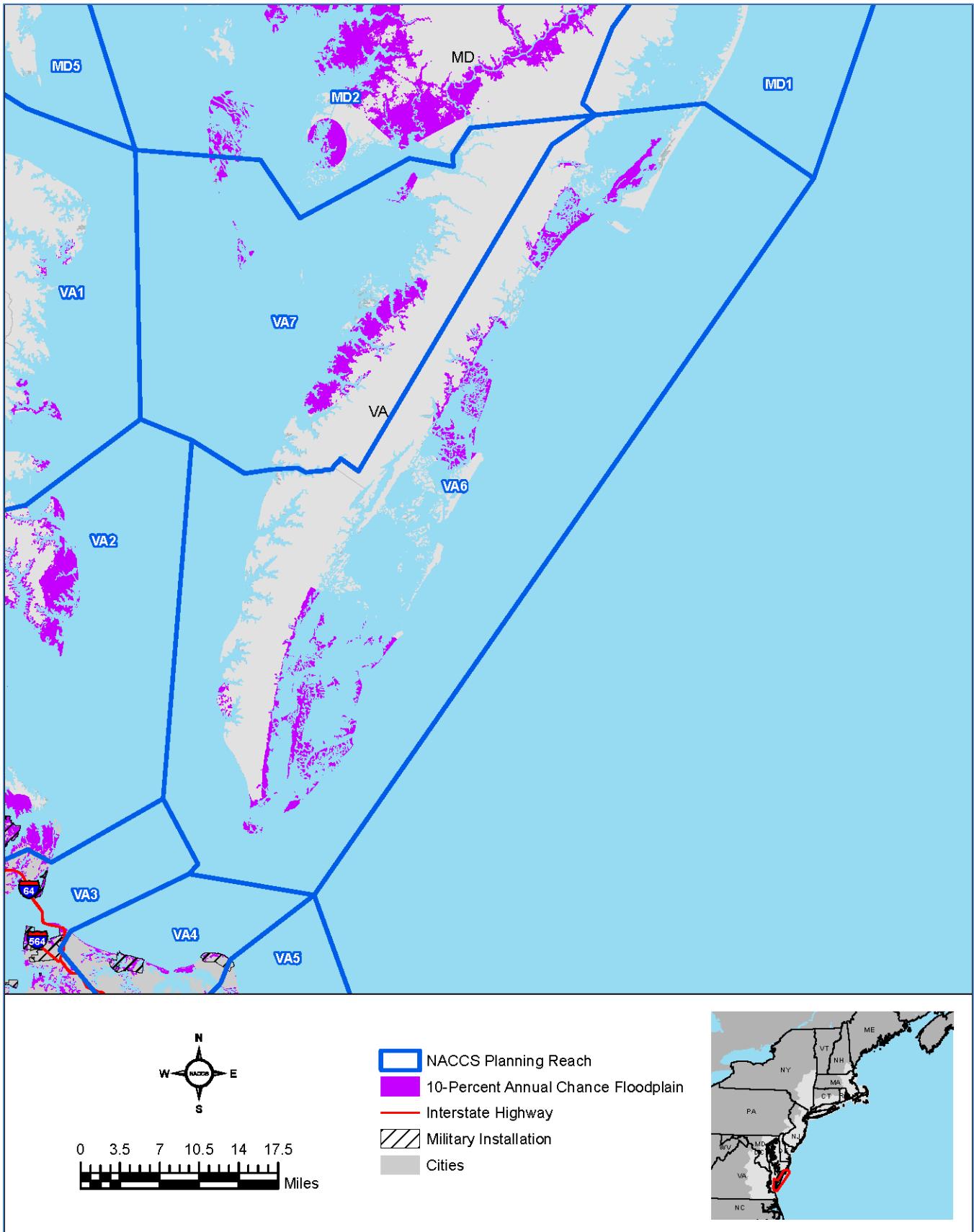


Figure IIg-49: Impacted Area 10-Percent Flood Water Surface (VA6)

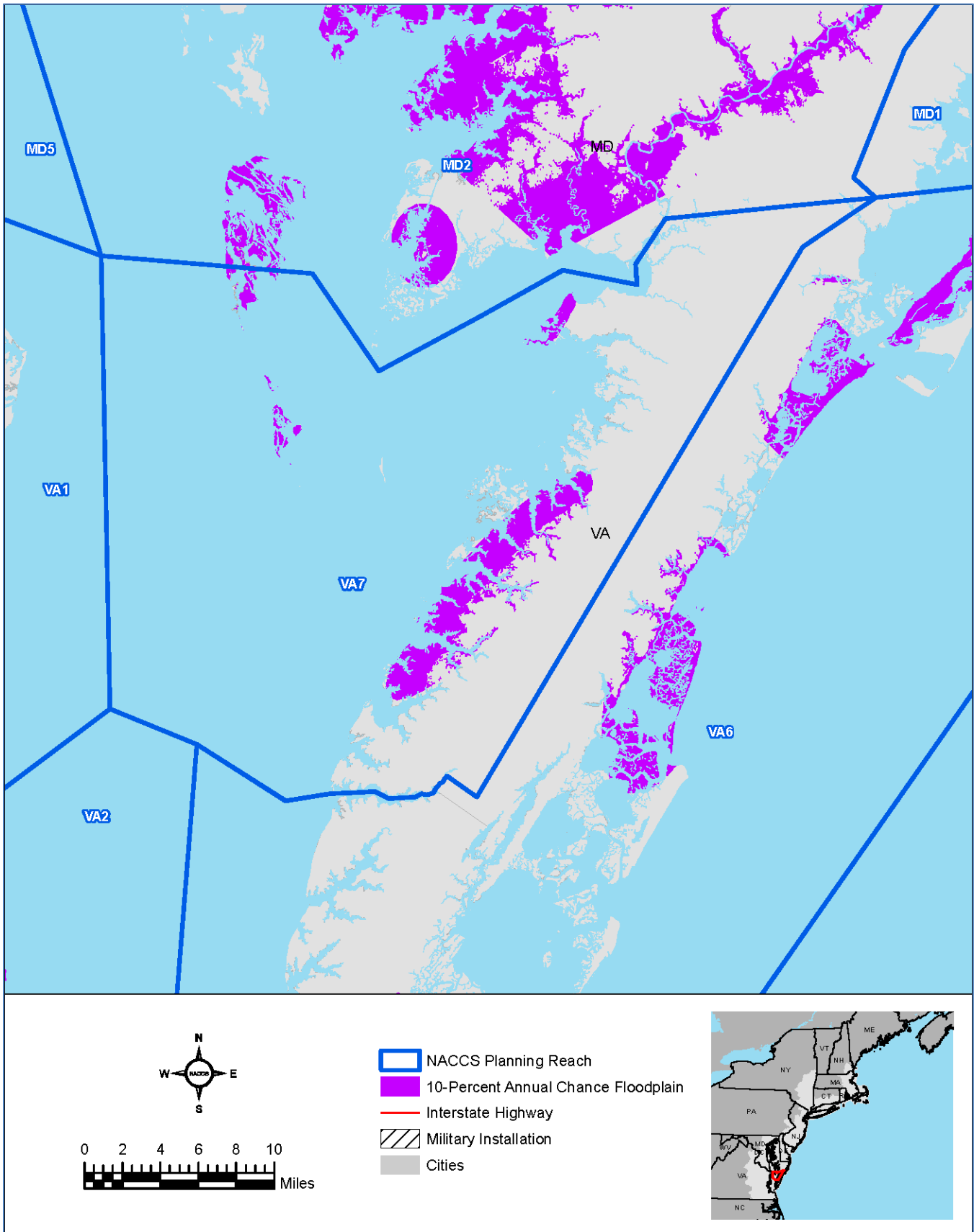


Figure IIg-50: Impacted Area 10-Percent Flood Water Surface (VA7)



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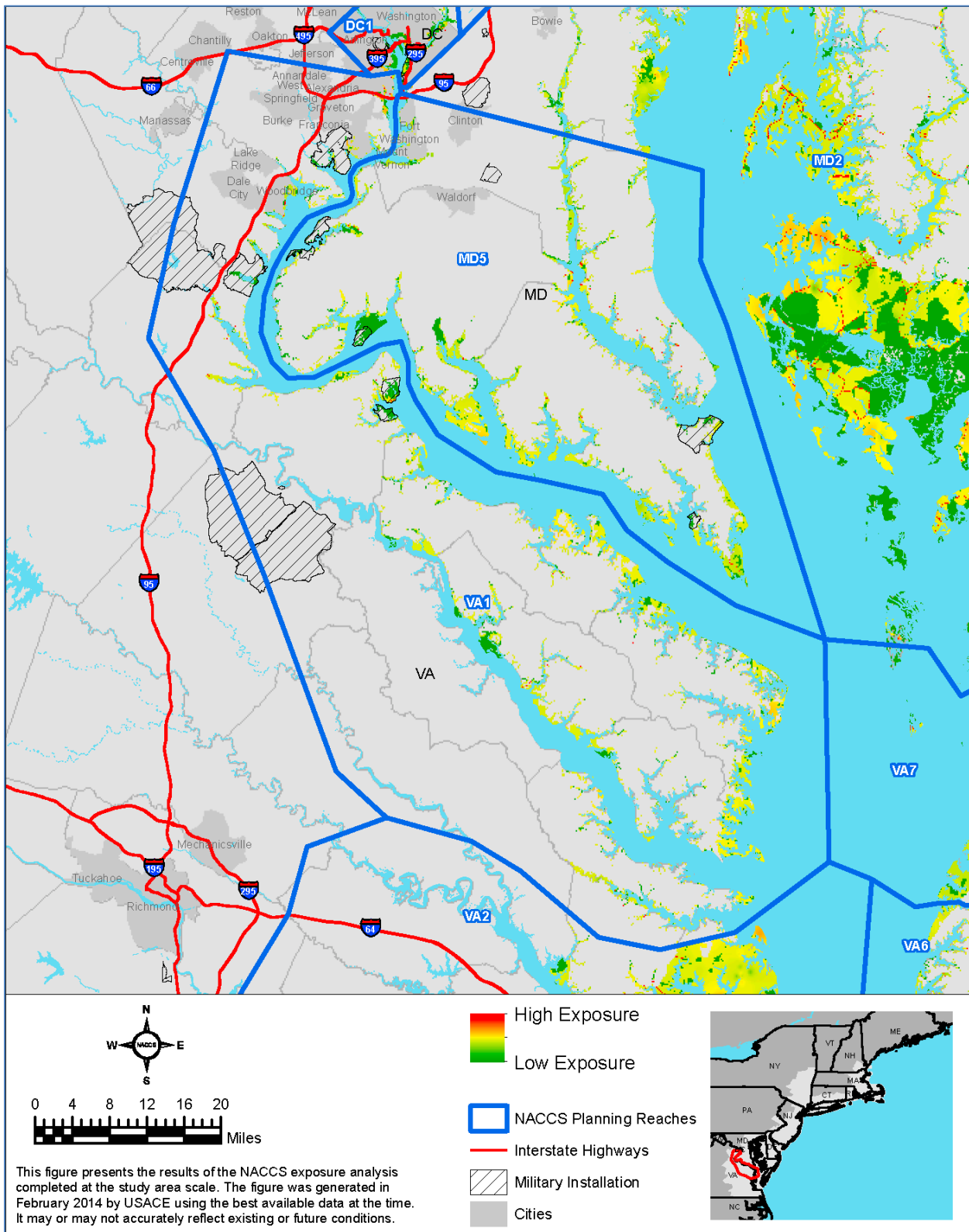


Figure 11g-51: Population and Infrastructure Exposure Index (VA1)

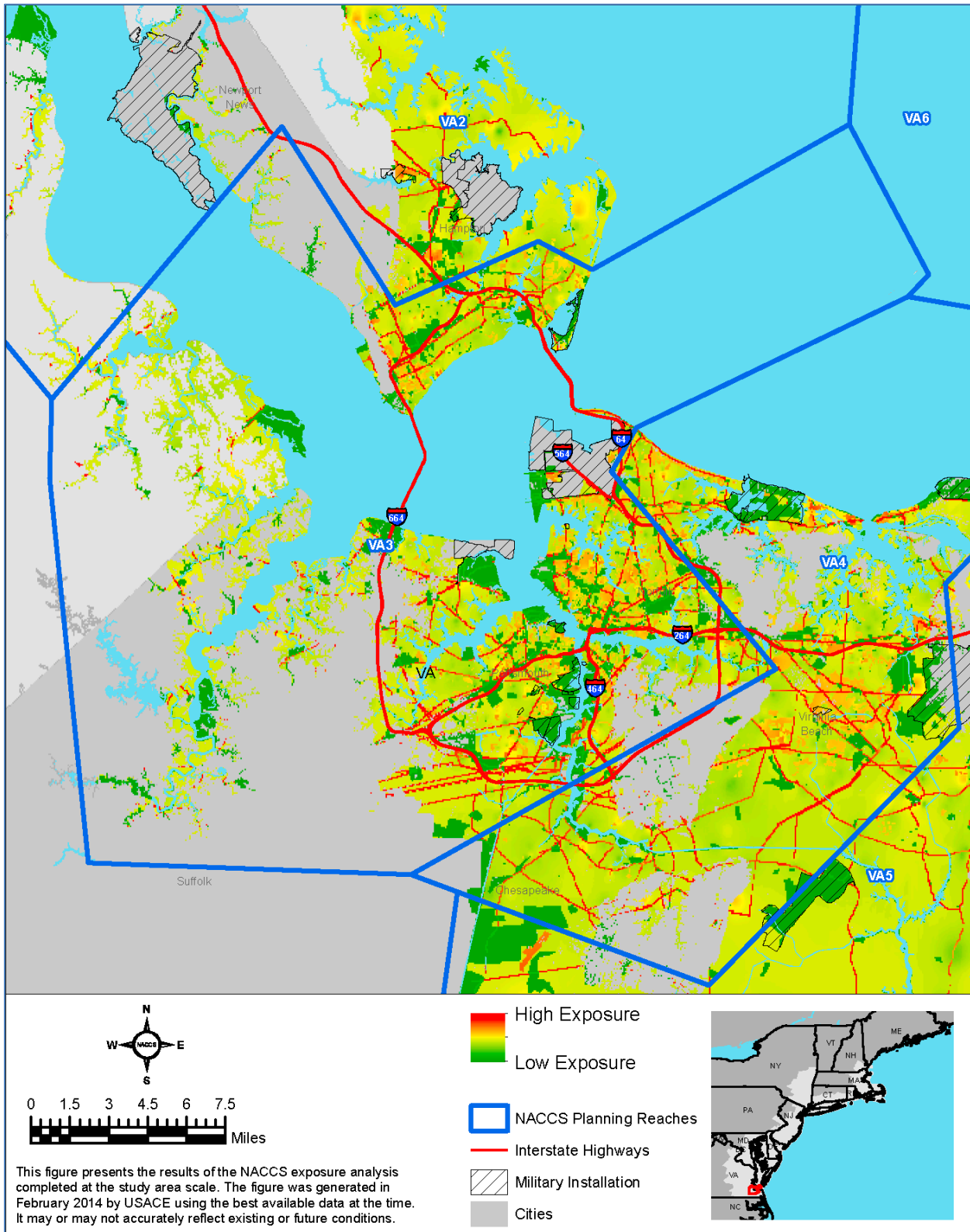


Figure 11g-53: Population and Infrastructure Exposure Index (VA3)

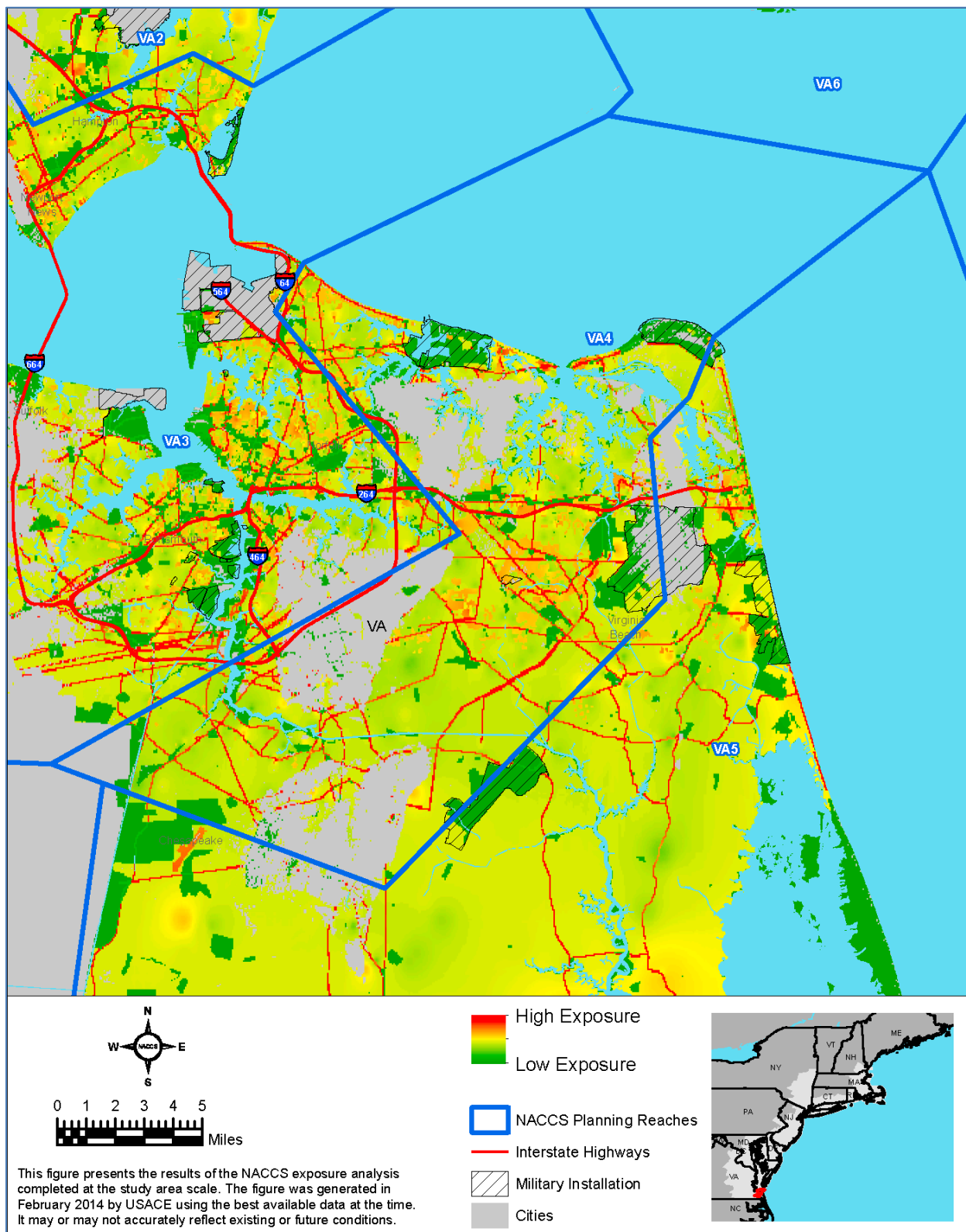


Figure 11g-54: Population and Infrastructure Exposure Index (VA4)

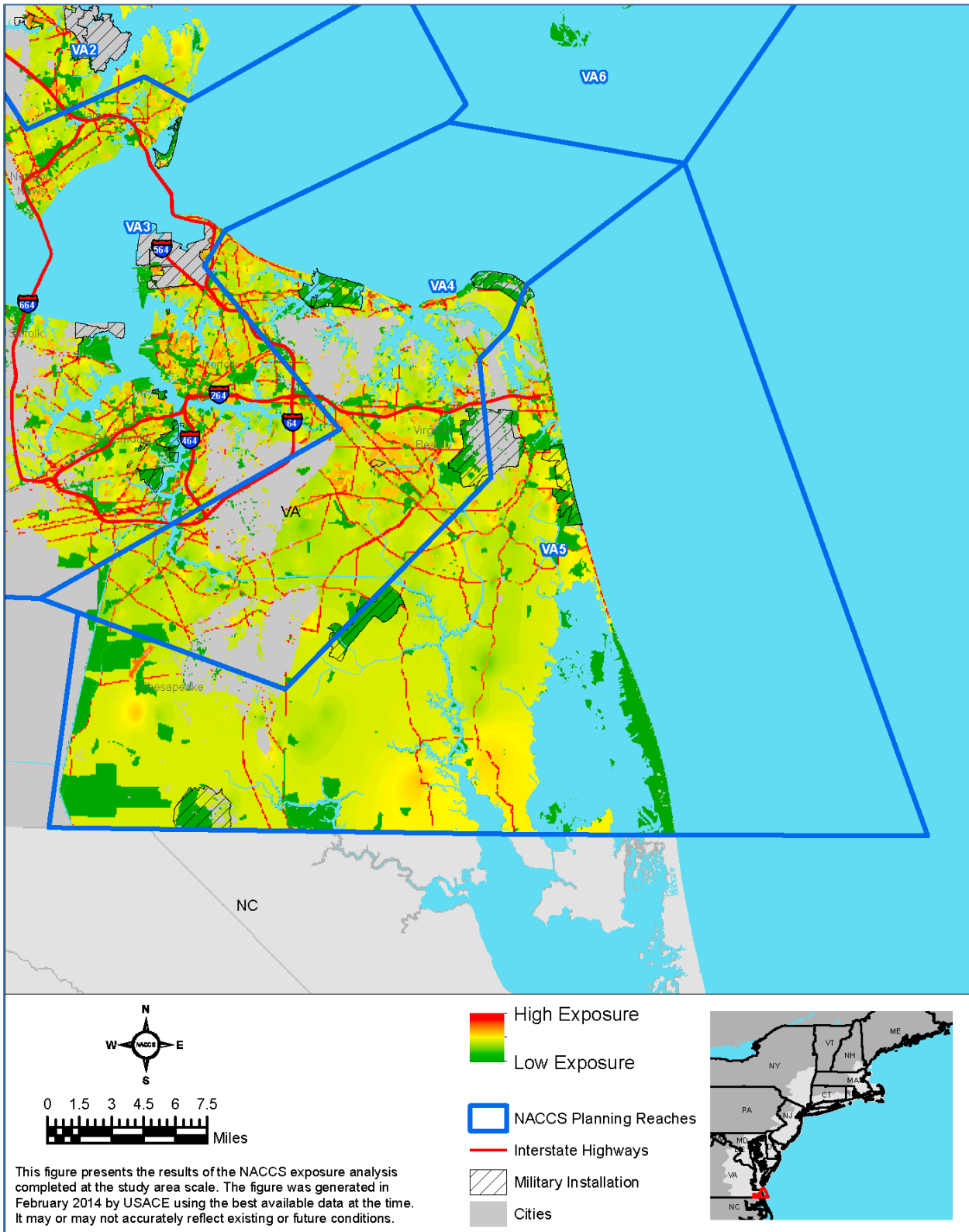


Figure 11g-55: Population and Infrastructure Exposure Index (VA5)

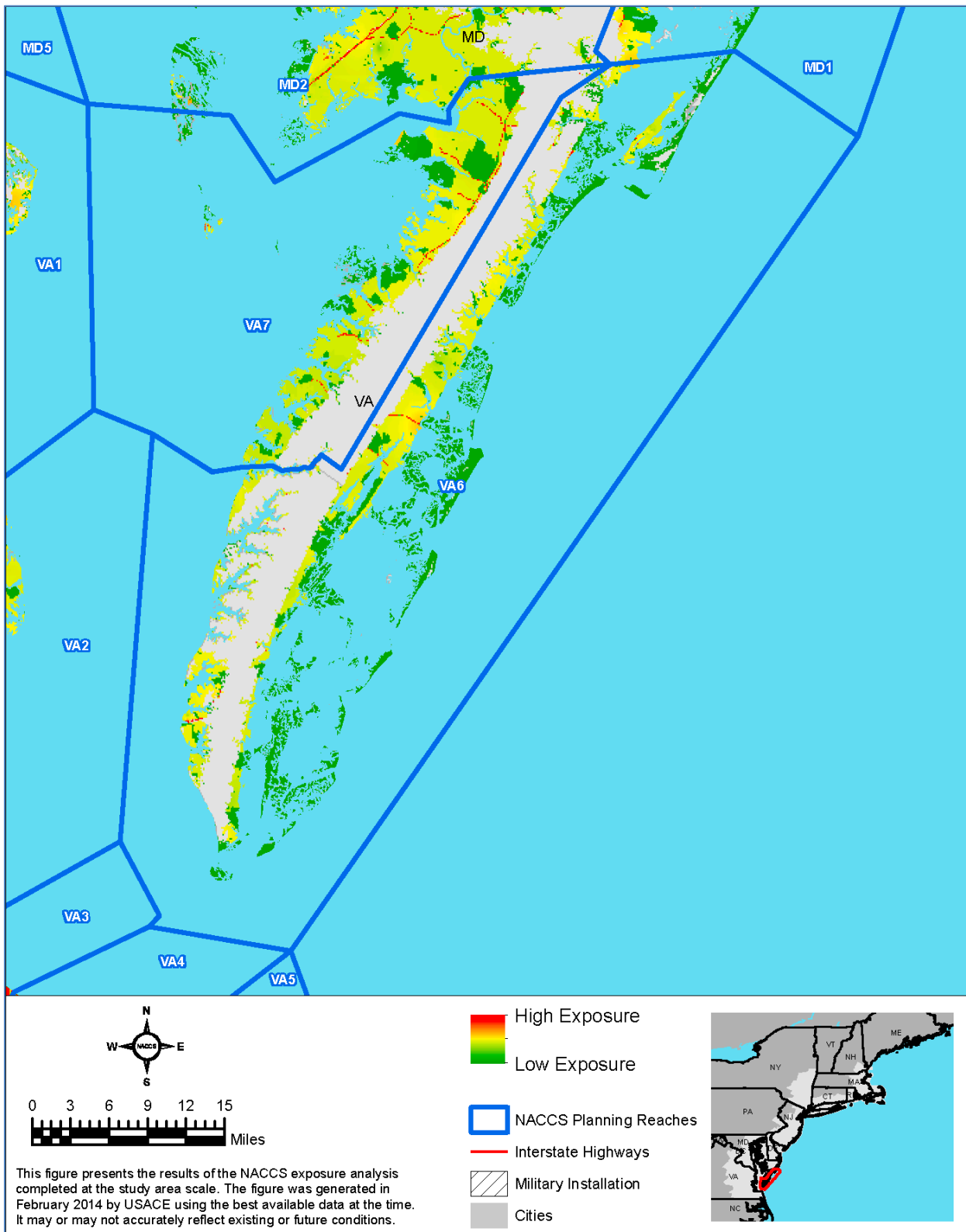


Figure IIg-56: Population and Infrastructure Exposure Index (VA6)

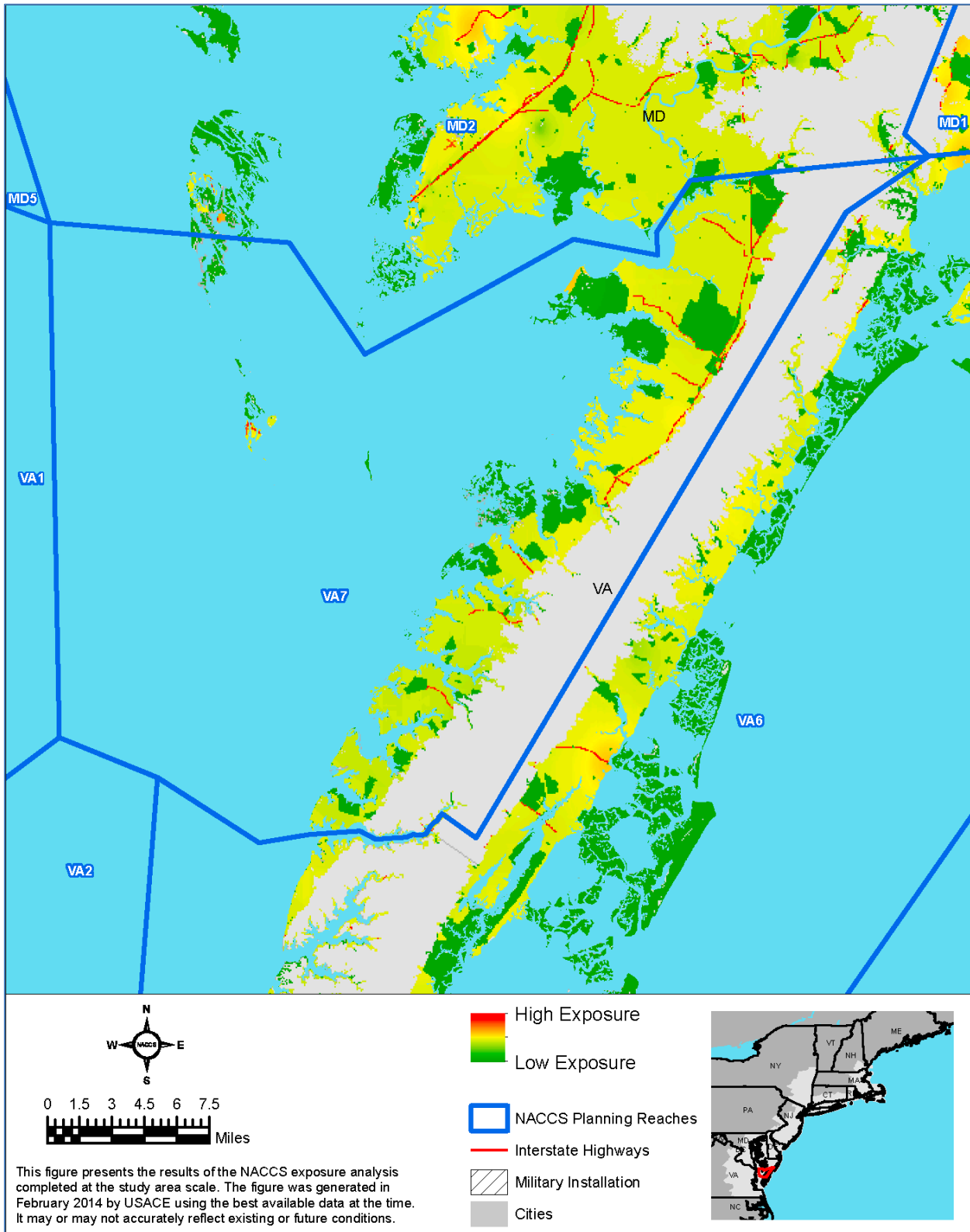


Figure IIg-57: Population and Infrastructure Exposure Index (VA7)

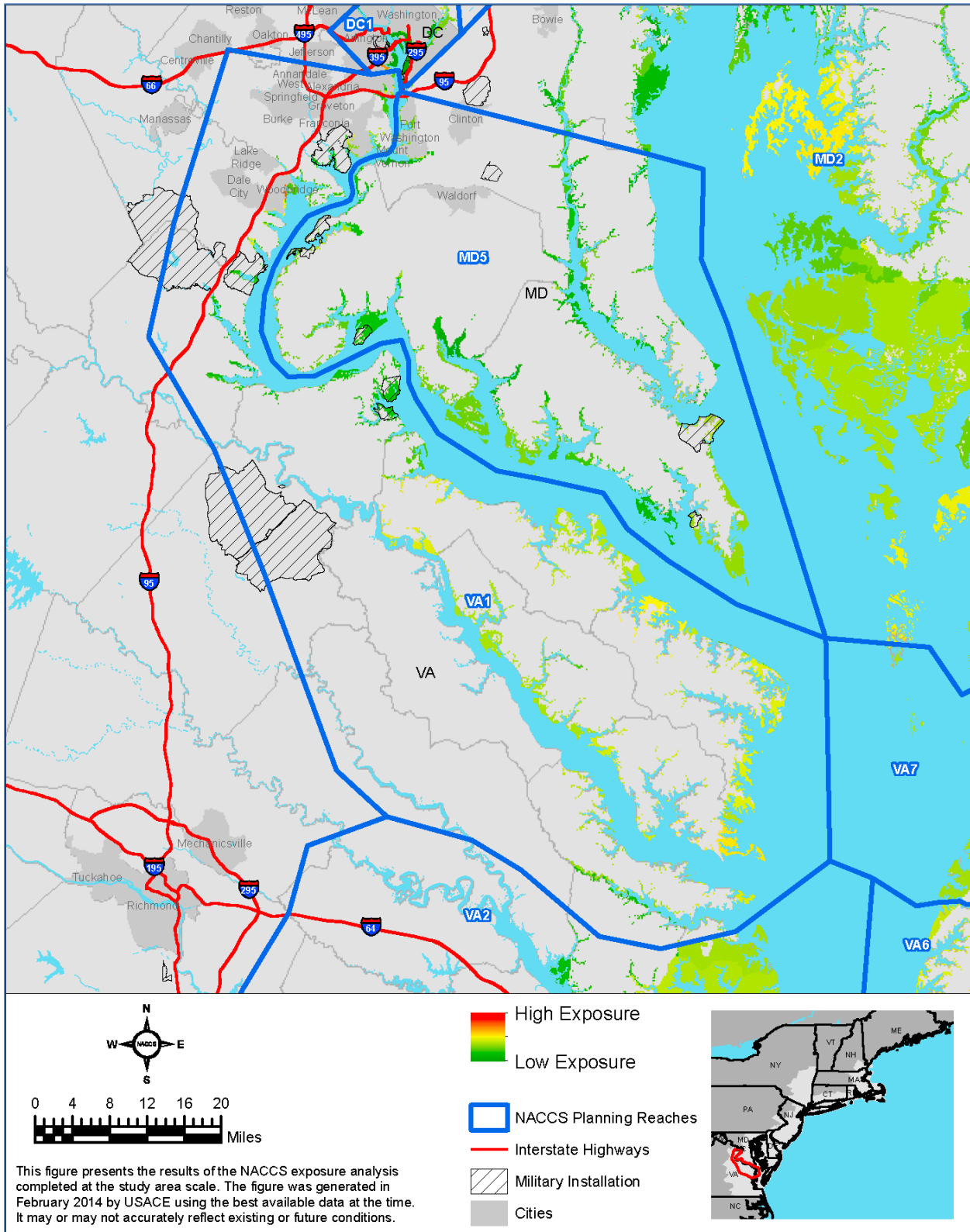


Figure 11g-58: Social Vulnerability Characterization Exposure Index (VA1)



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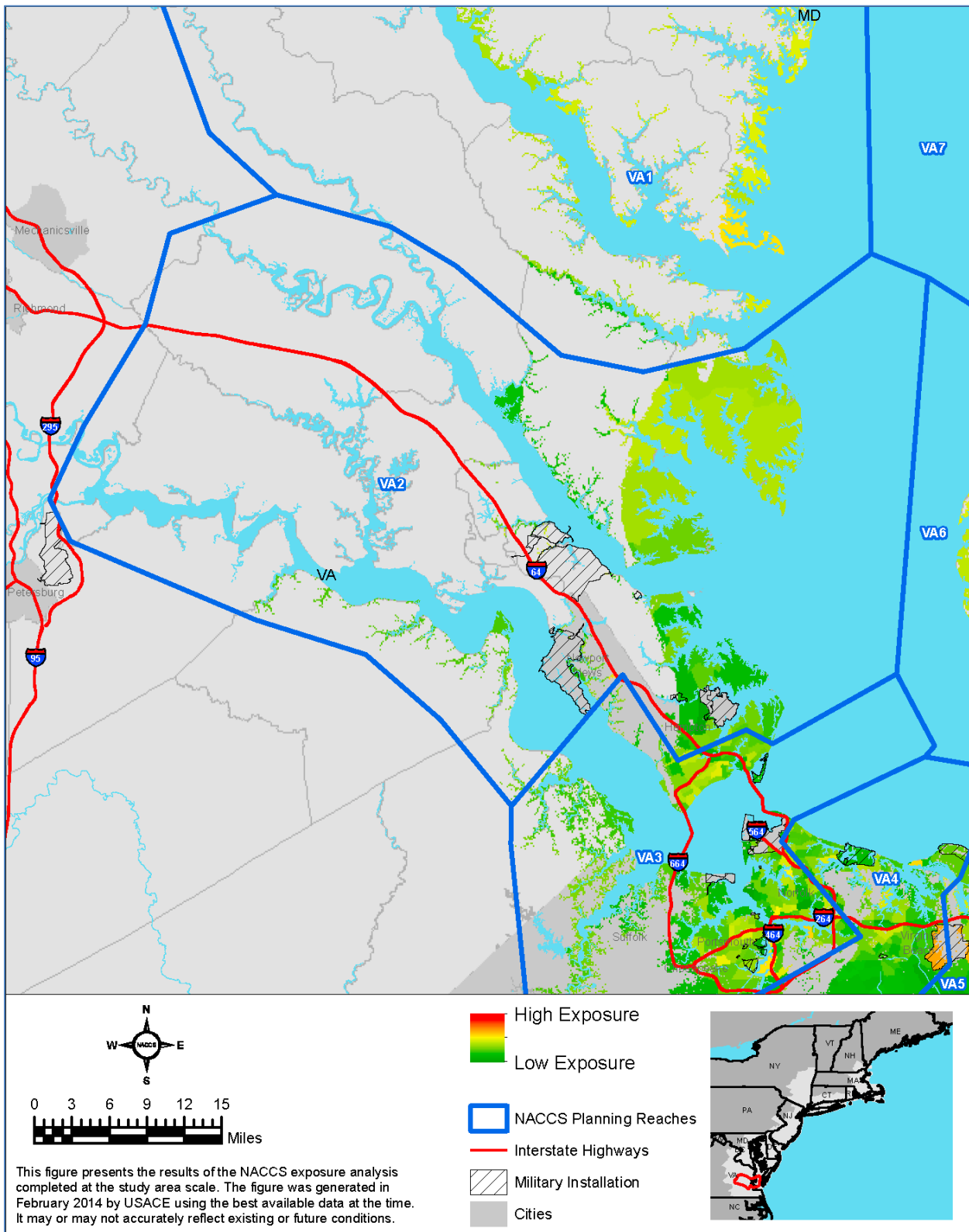


Figure 11g-59: Social Vulnerability Characterization Exposure Index (VA2)

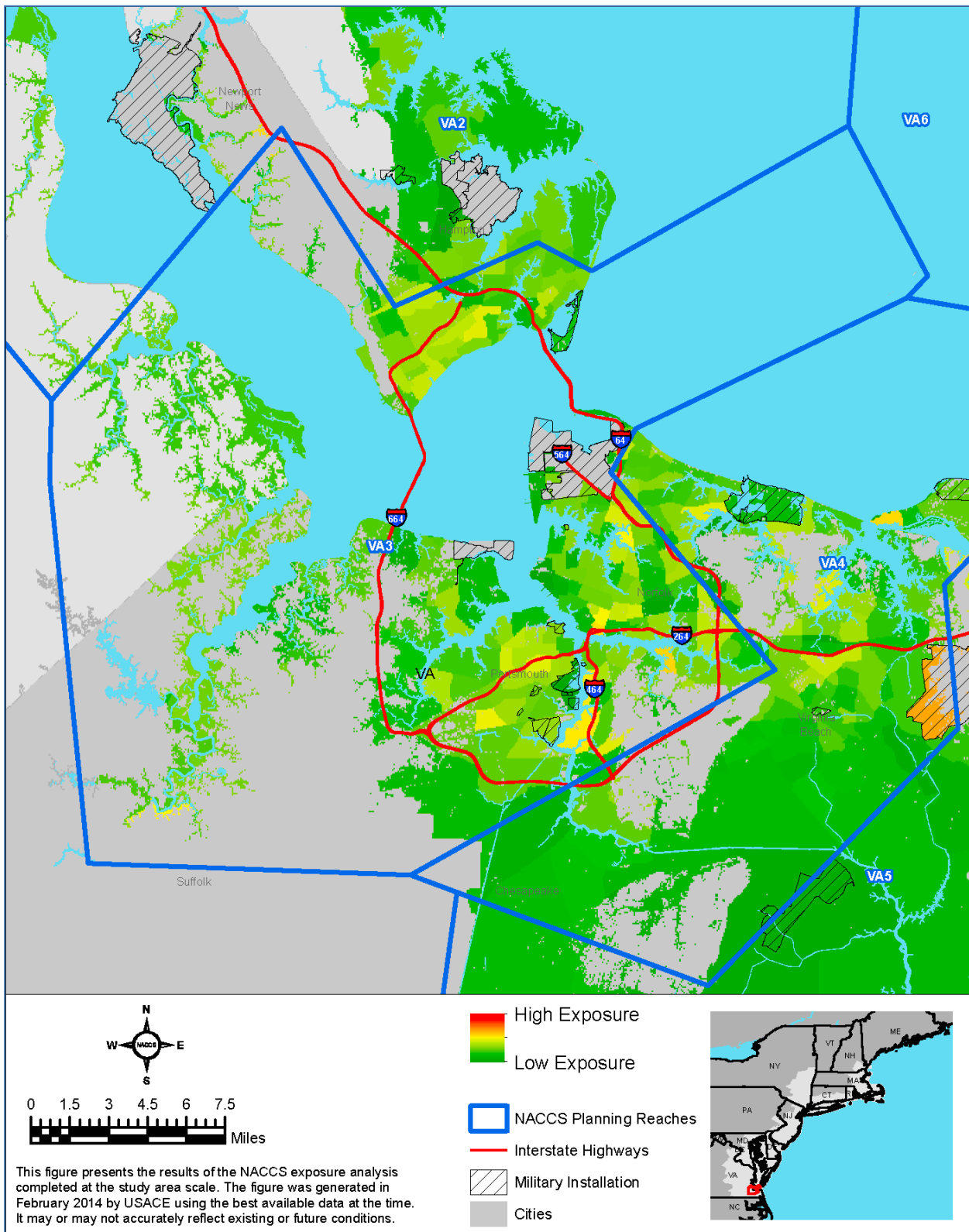


Figure 11g-60: Social Vulnerability Characterization Exposure Index (VA3)

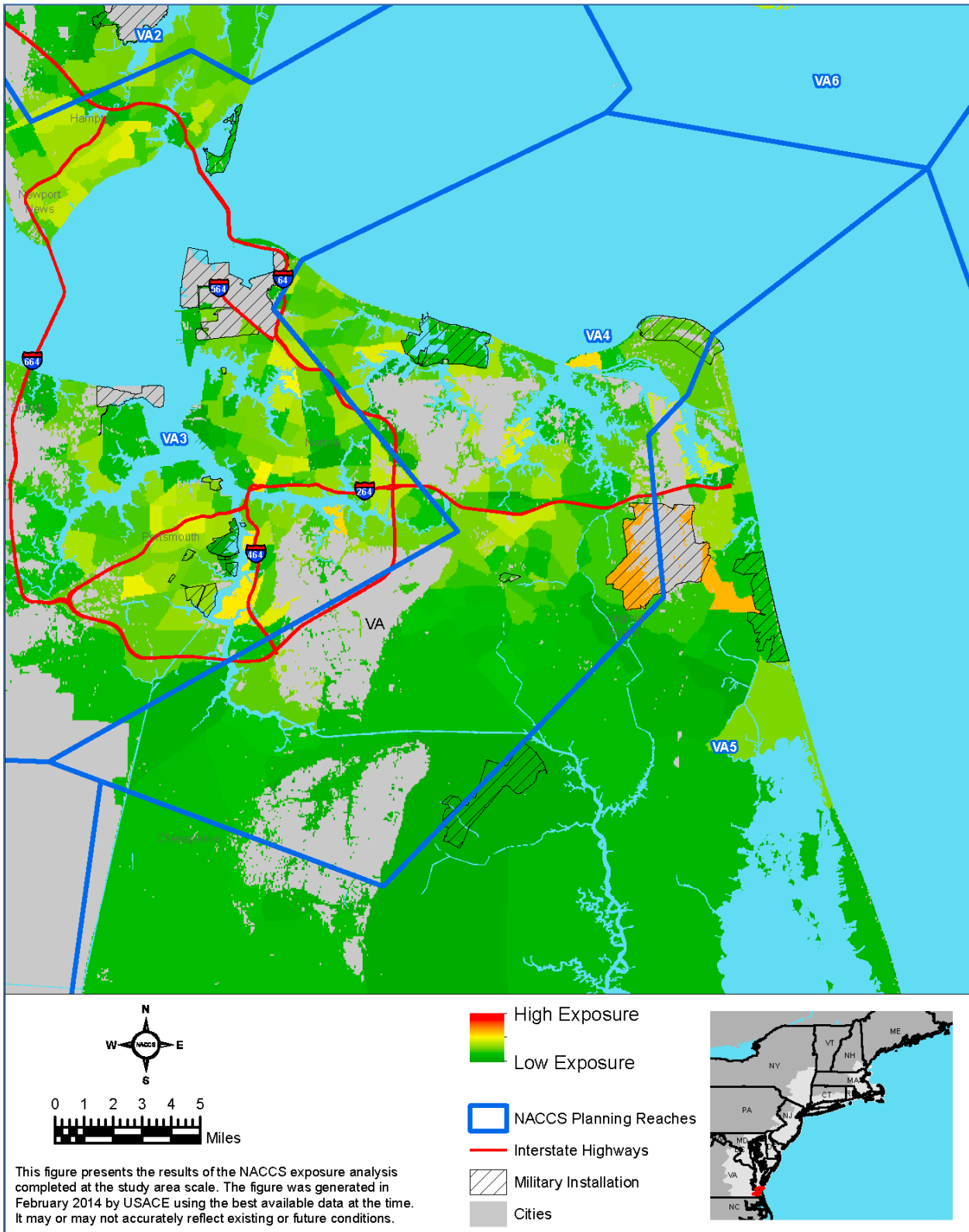


Figure 11g-61: Social Vulnerability Characterization Exposure Index (VA4)

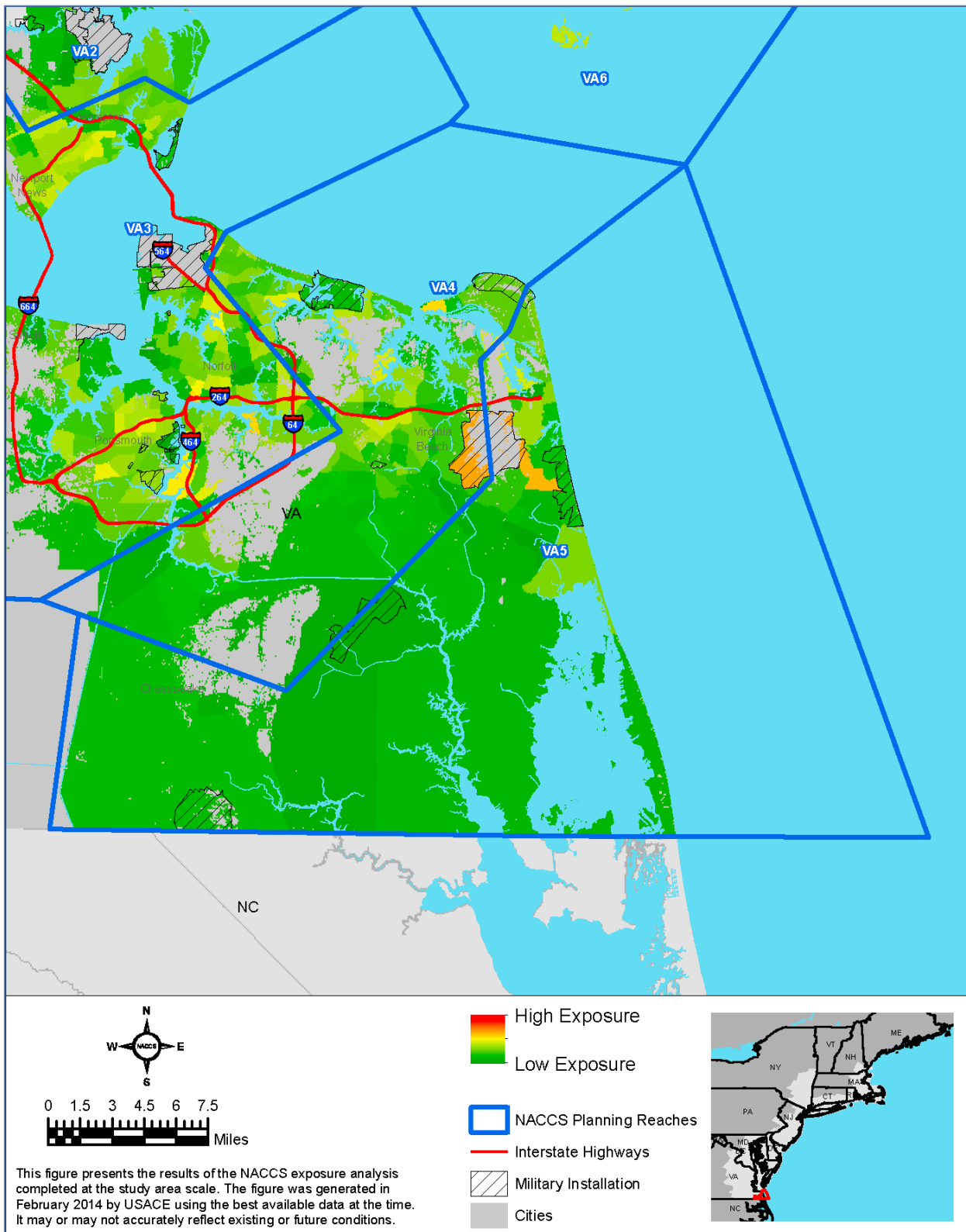


Figure 11g-62: Social Vulnerability Characterization Exposure Index (VA5)

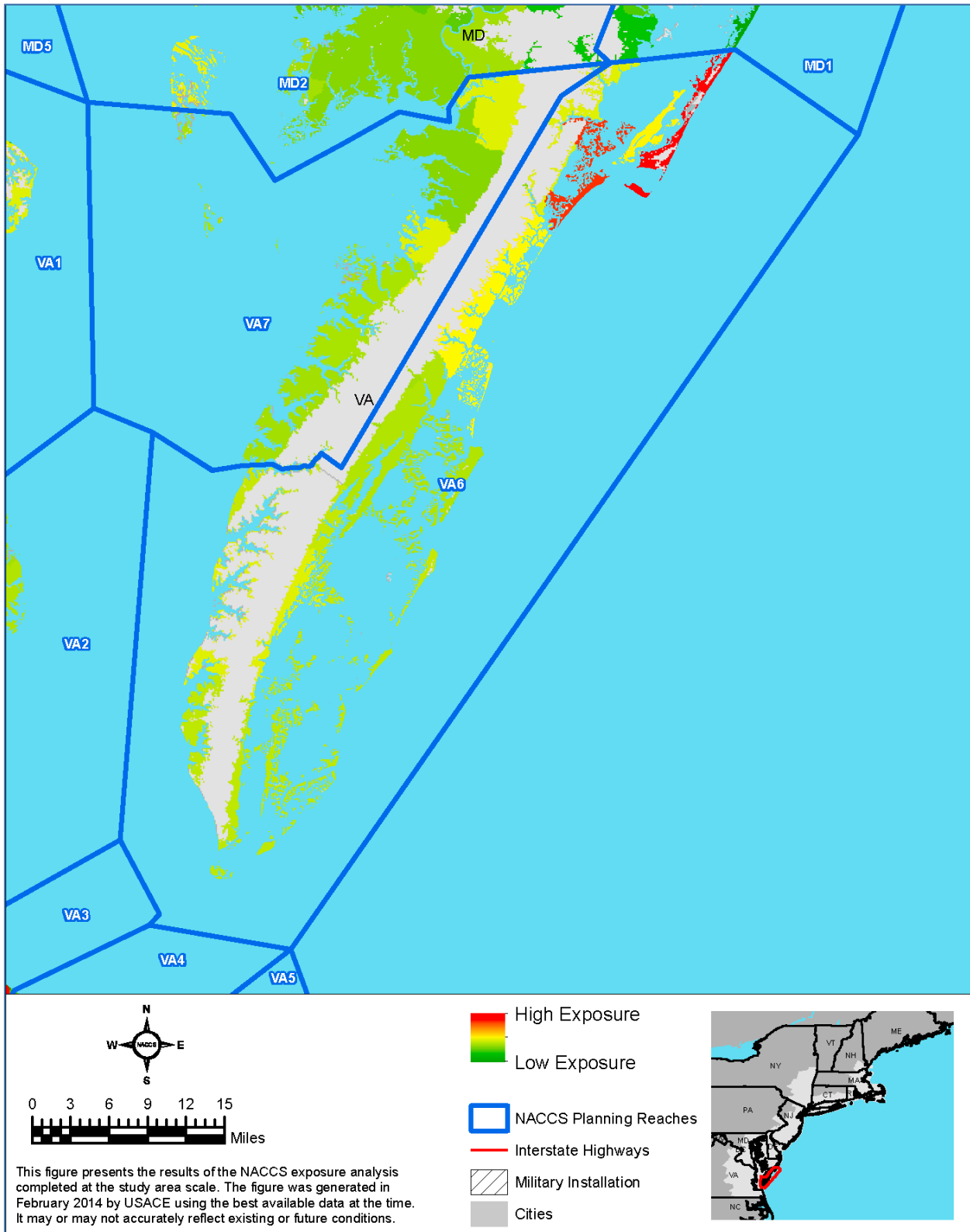


Figure IIg-63: Social Vulnerability Characterization Exposure Index (VA6)

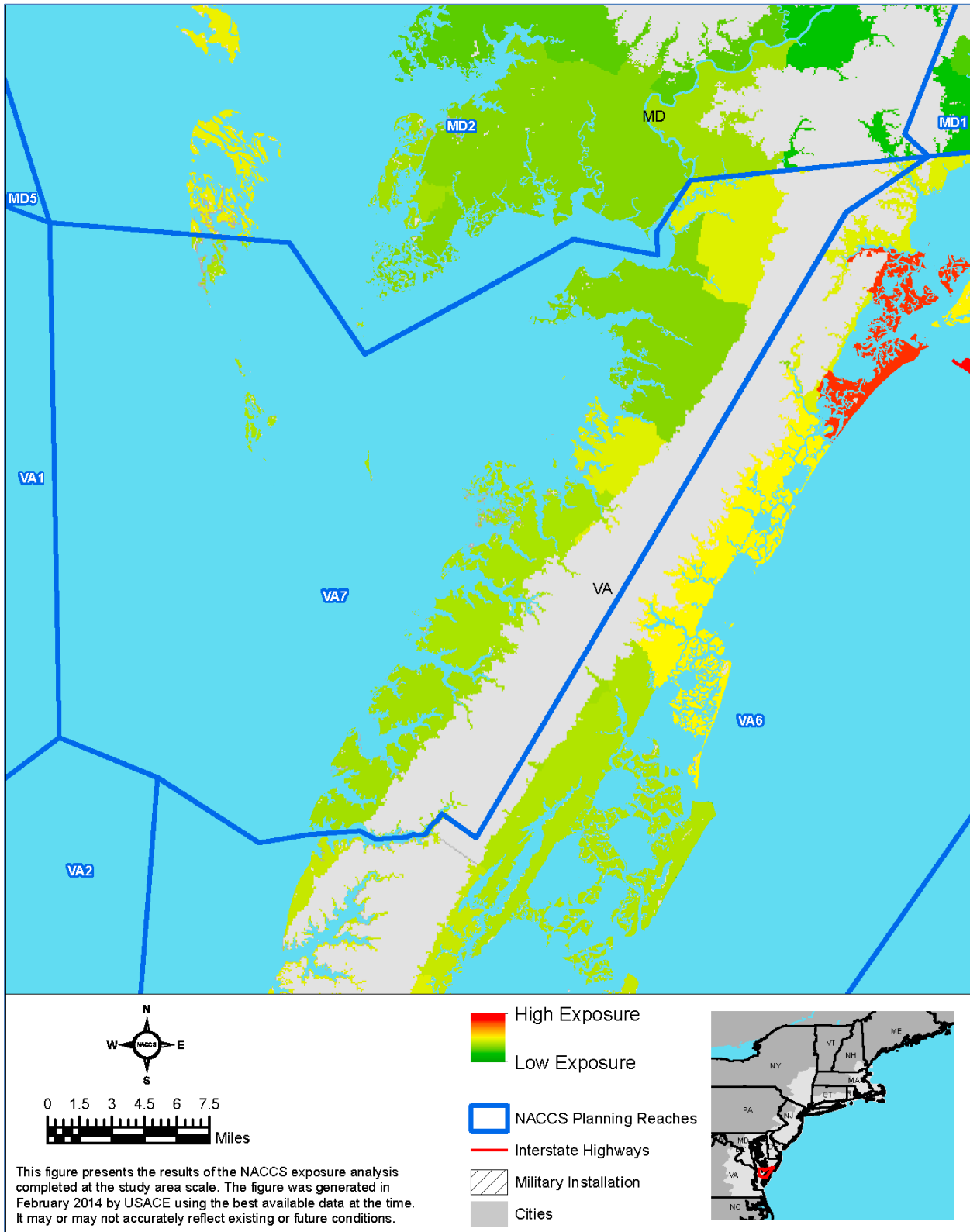


Figure IIg-64: Social Vulnerability Characterization Exposure Index (VA7)



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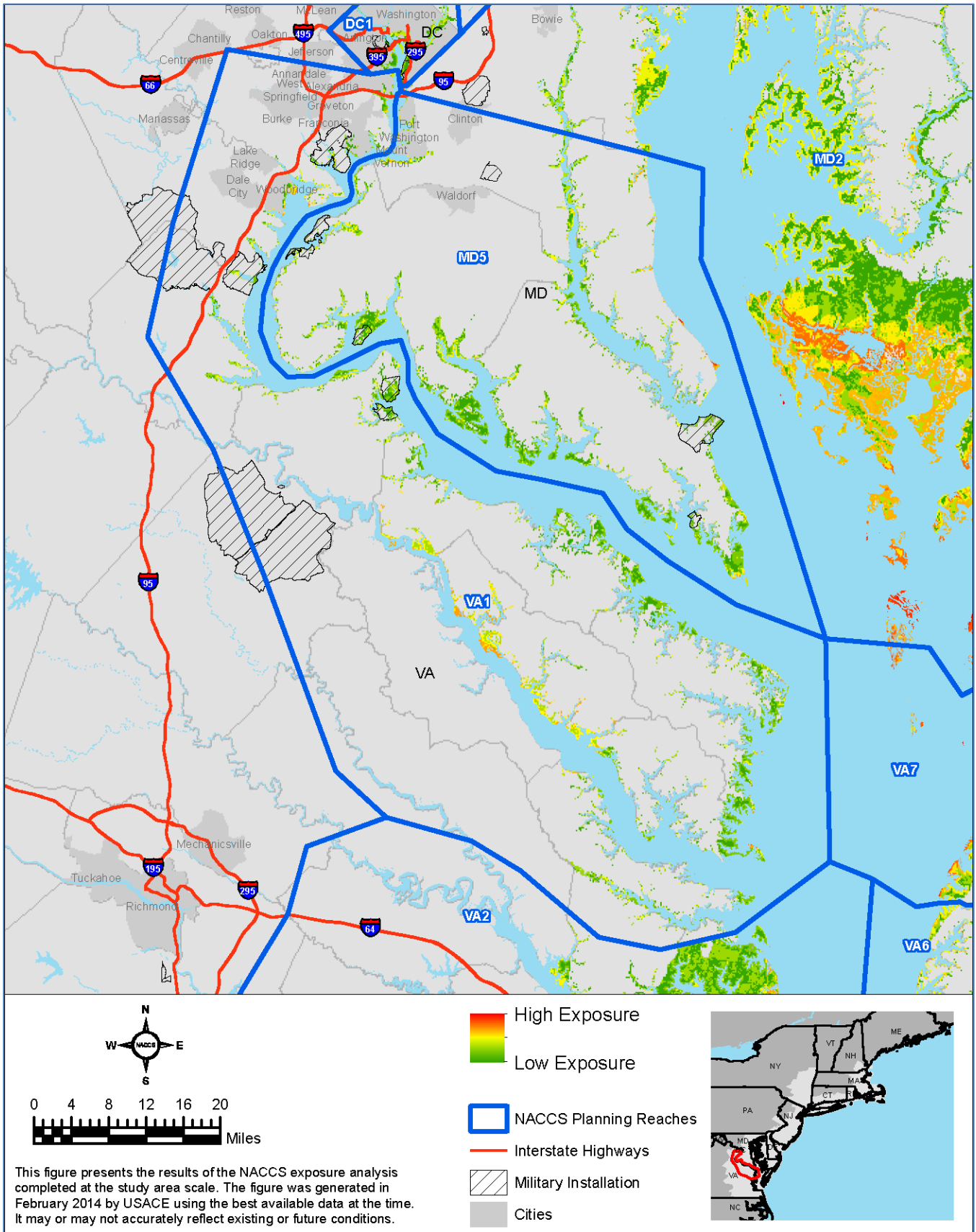


Figure 11g-65: Environmental and Cultural Resources Exposure Index (VA1)

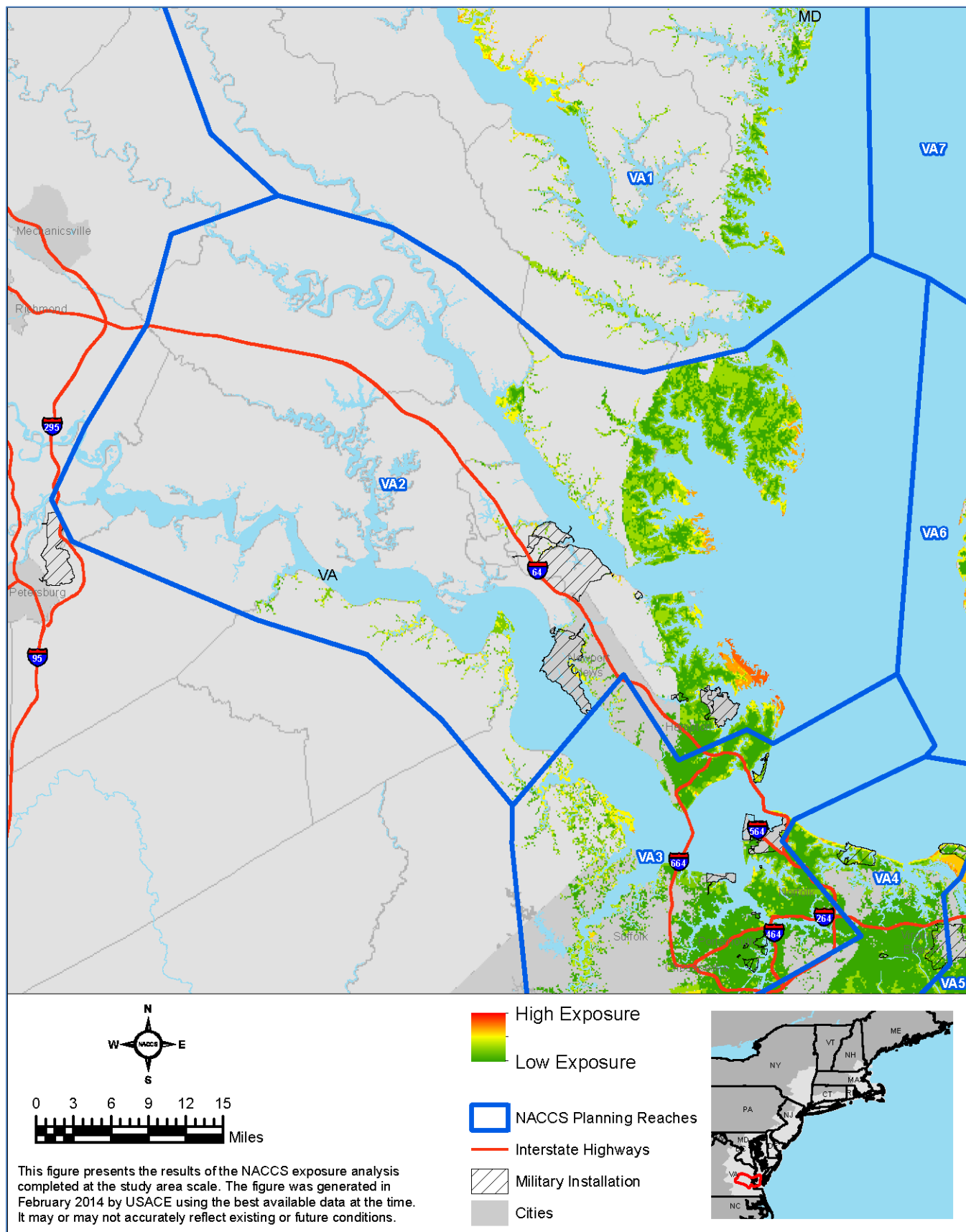


Figure 11g-66: Environmental and Cultural Resources Exposure Index (VA2)

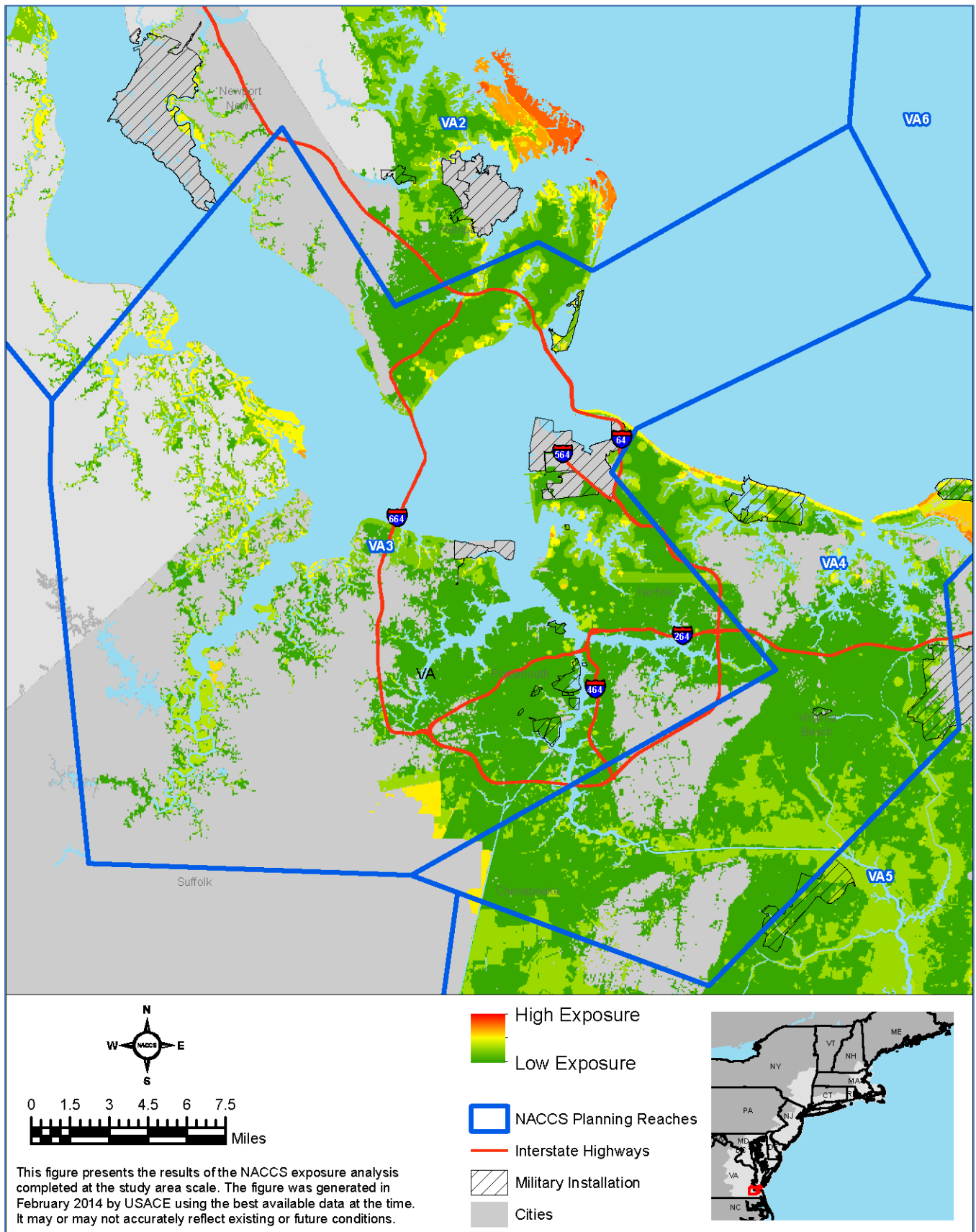
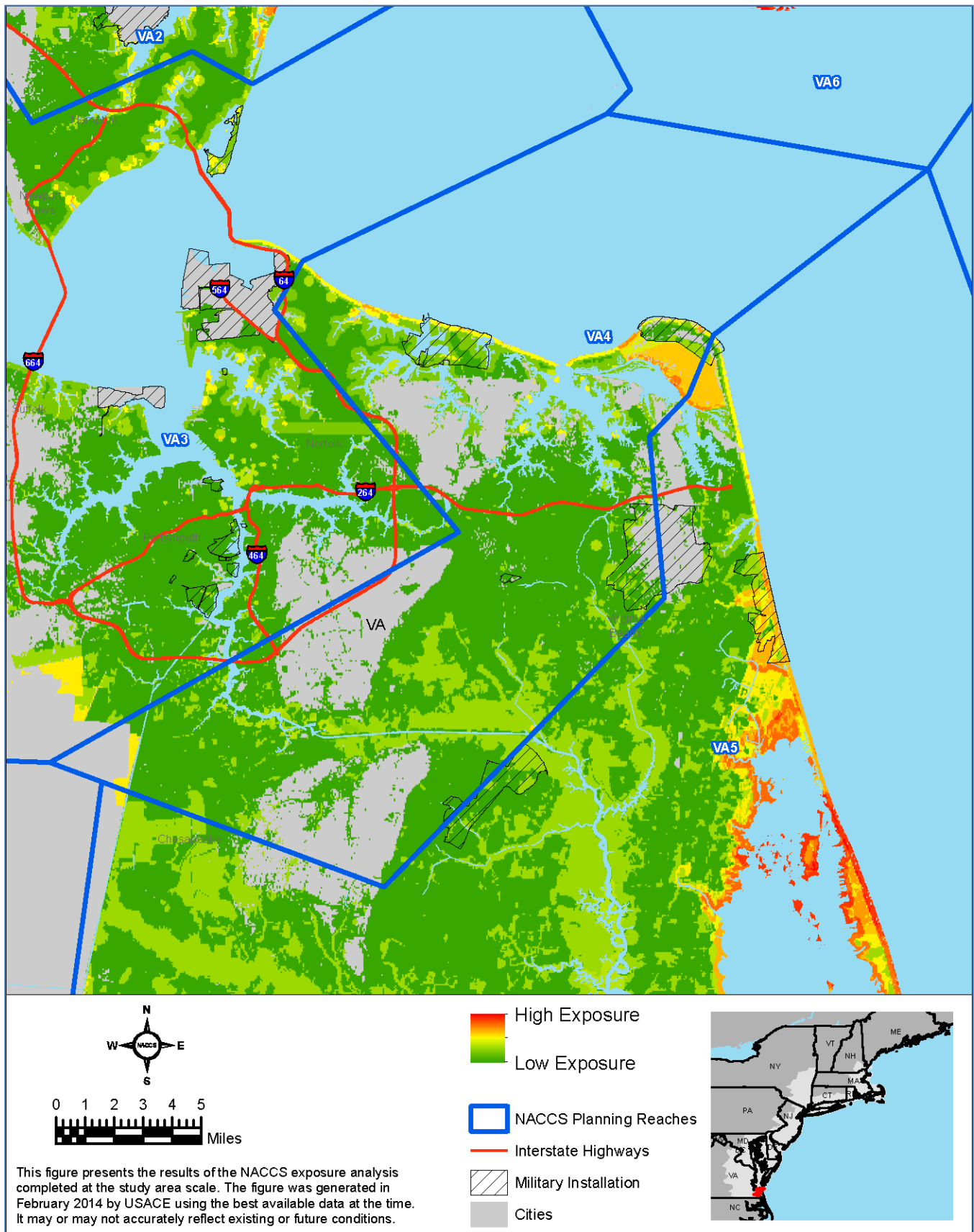


Figure 11g-67: Environmental and Cultural Resources Exposure Index (VA3)



This figure presents the results of the NACCS exposure analysis completed at the study area scale. The figure was generated in February 2014 by USACE using the best available data at the time. It may or may not accurately reflect existing or future conditions.

Figure IIg-68: Environmental and Cultural Resources Exposure Index (VA4)

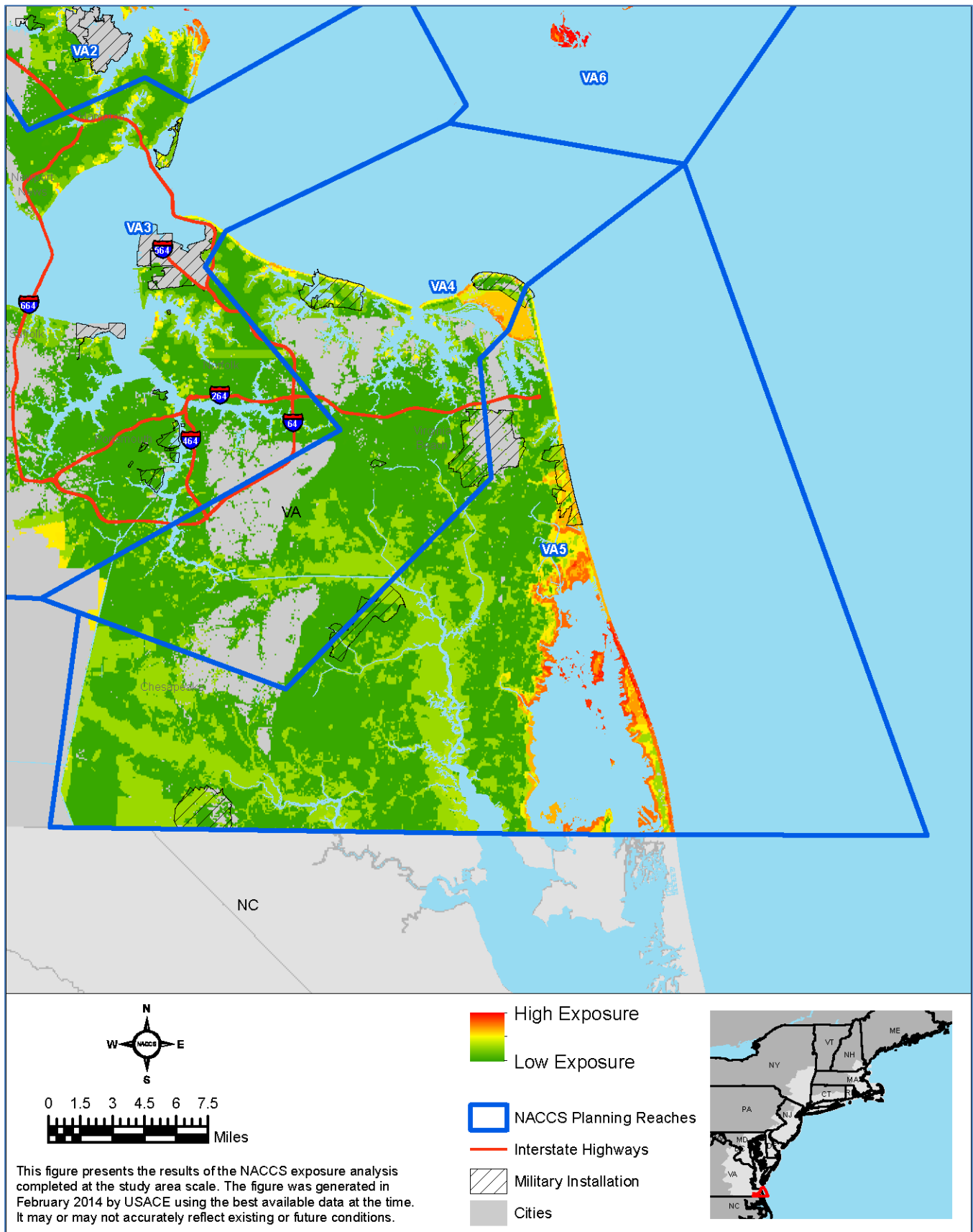


Figure 11g-69: Environmental and Cultural Resources Exposure Index (VA5)

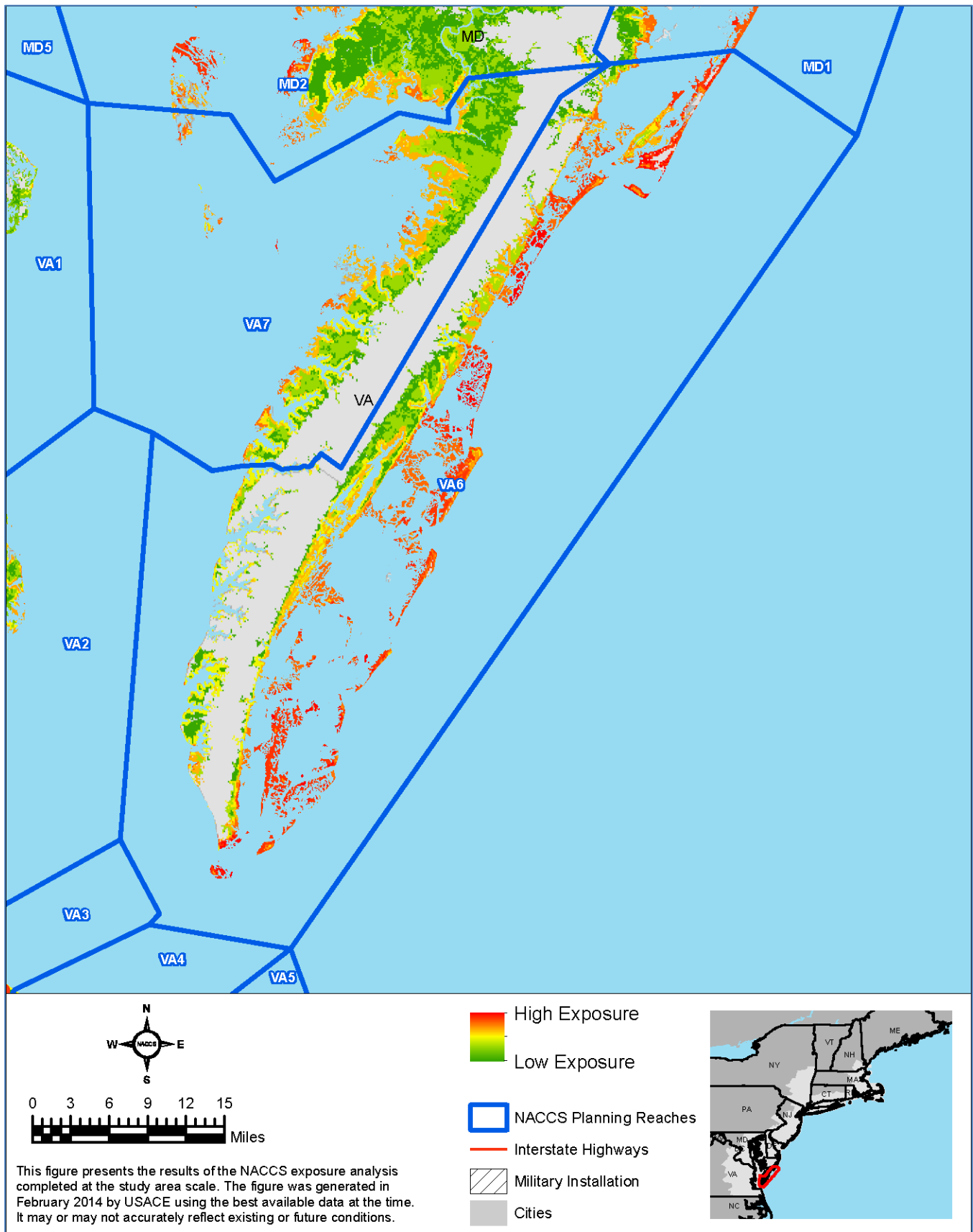


Figure IIg-70: Environmental and Cultural Resources Exposure Index (VA6)

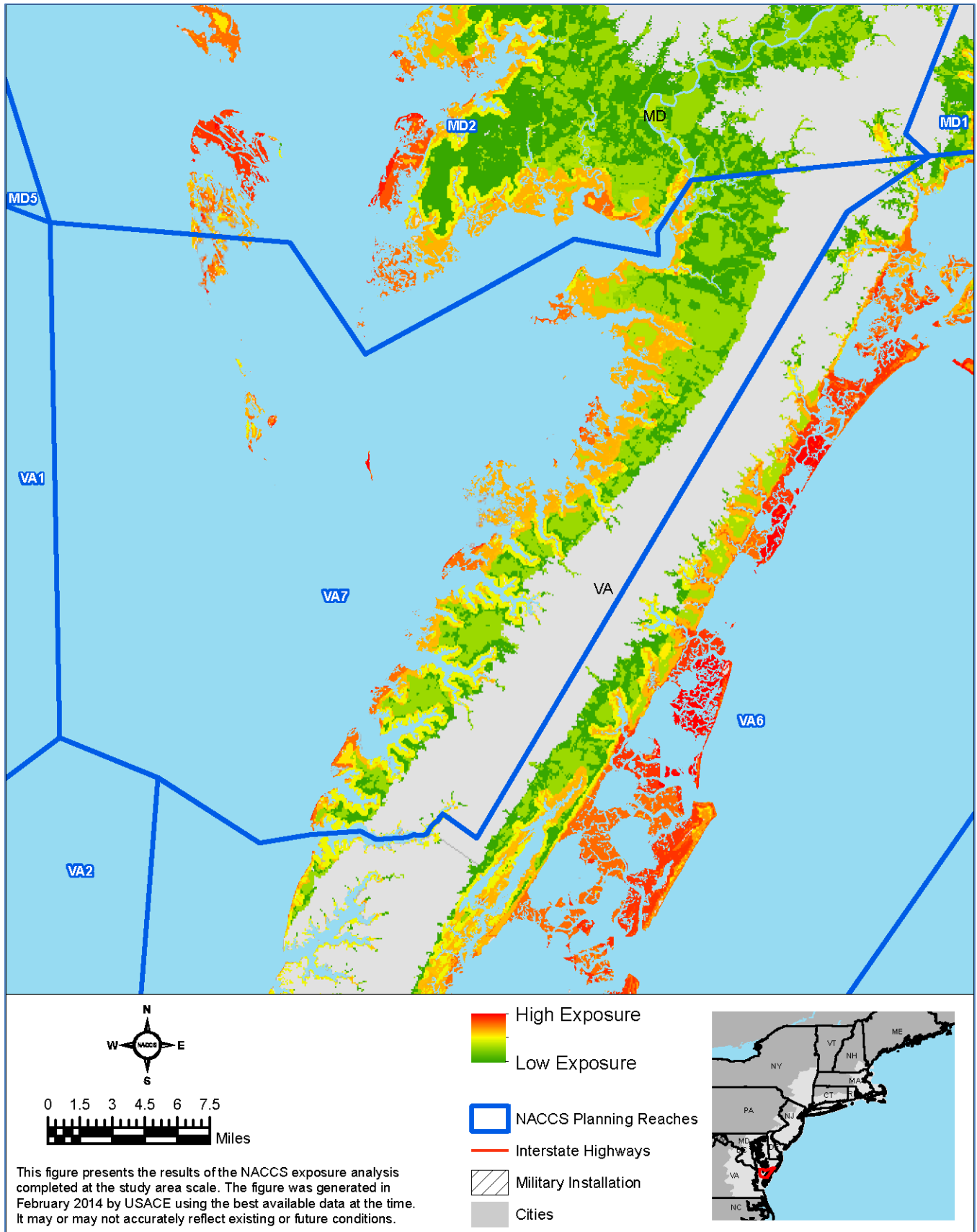


Figure IIg-71: Environmental and Cultural Resources Exposure Index (VA7)

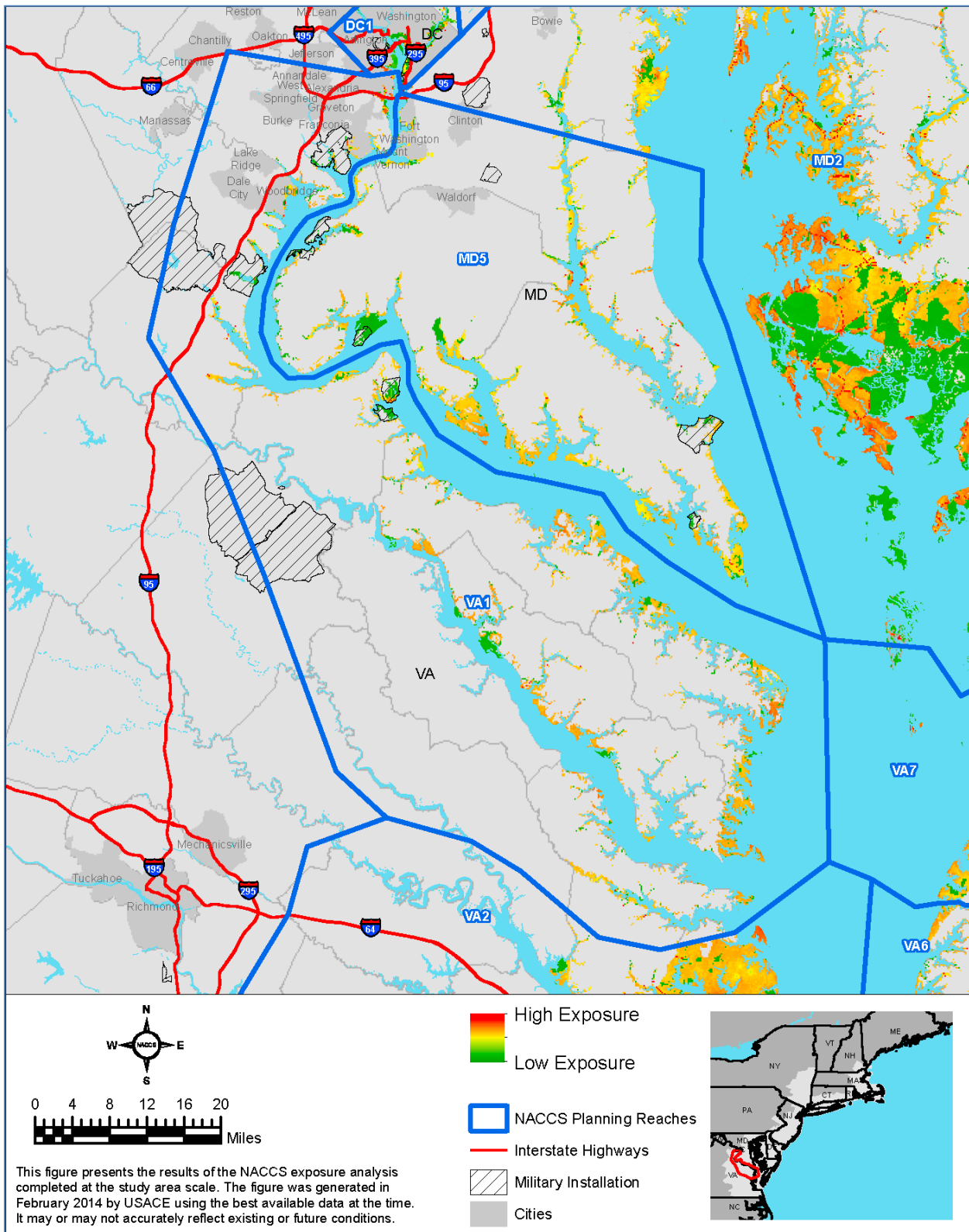


Figure 11g-72: Composite Exposure Index (VA1)



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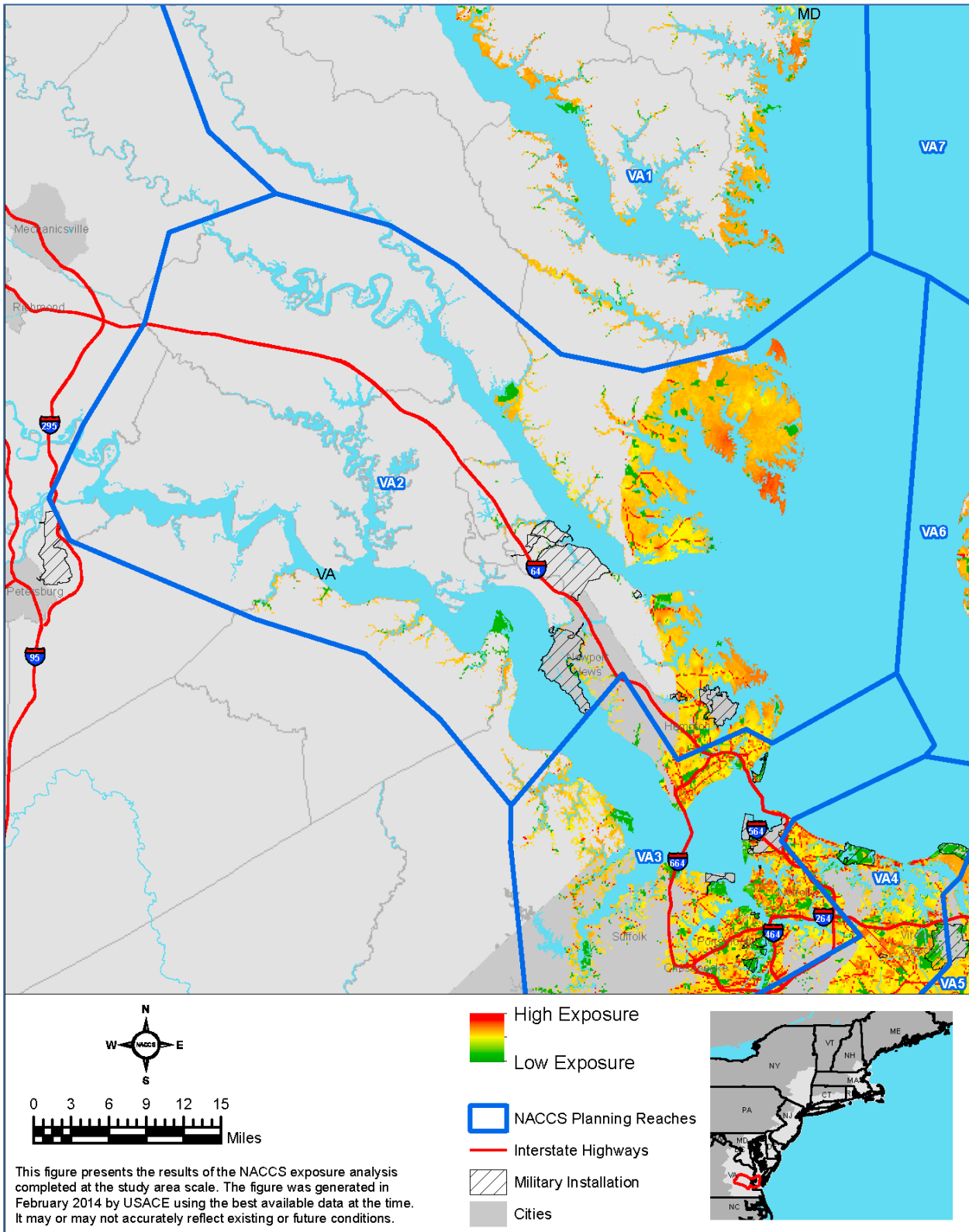


Figure 11g-73: Composite Exposure Index (VA2)

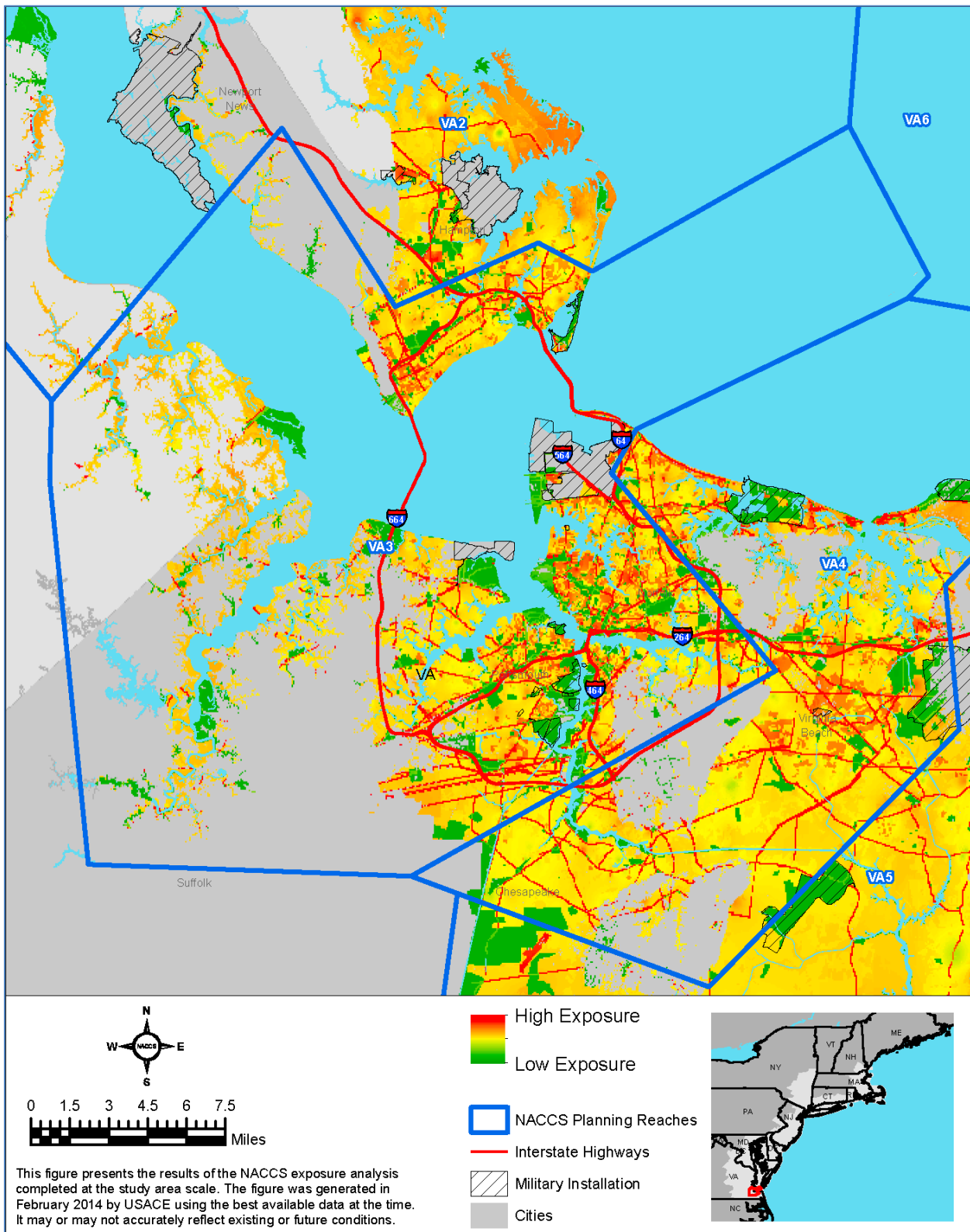


Figure 11g-74: Composite Exposure Index (VA3)

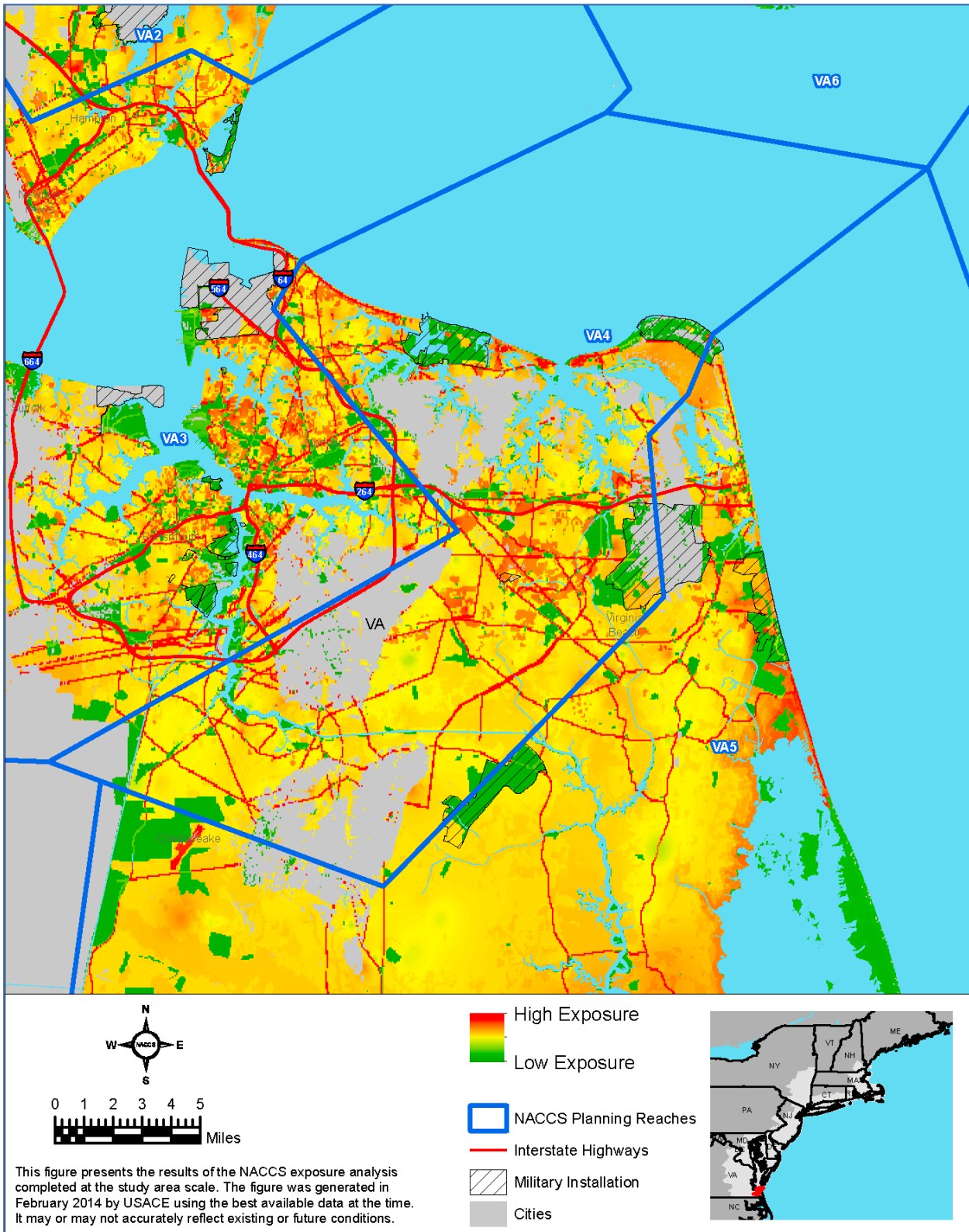


Figure 11g-75: Composite Exposure Index (VA4)

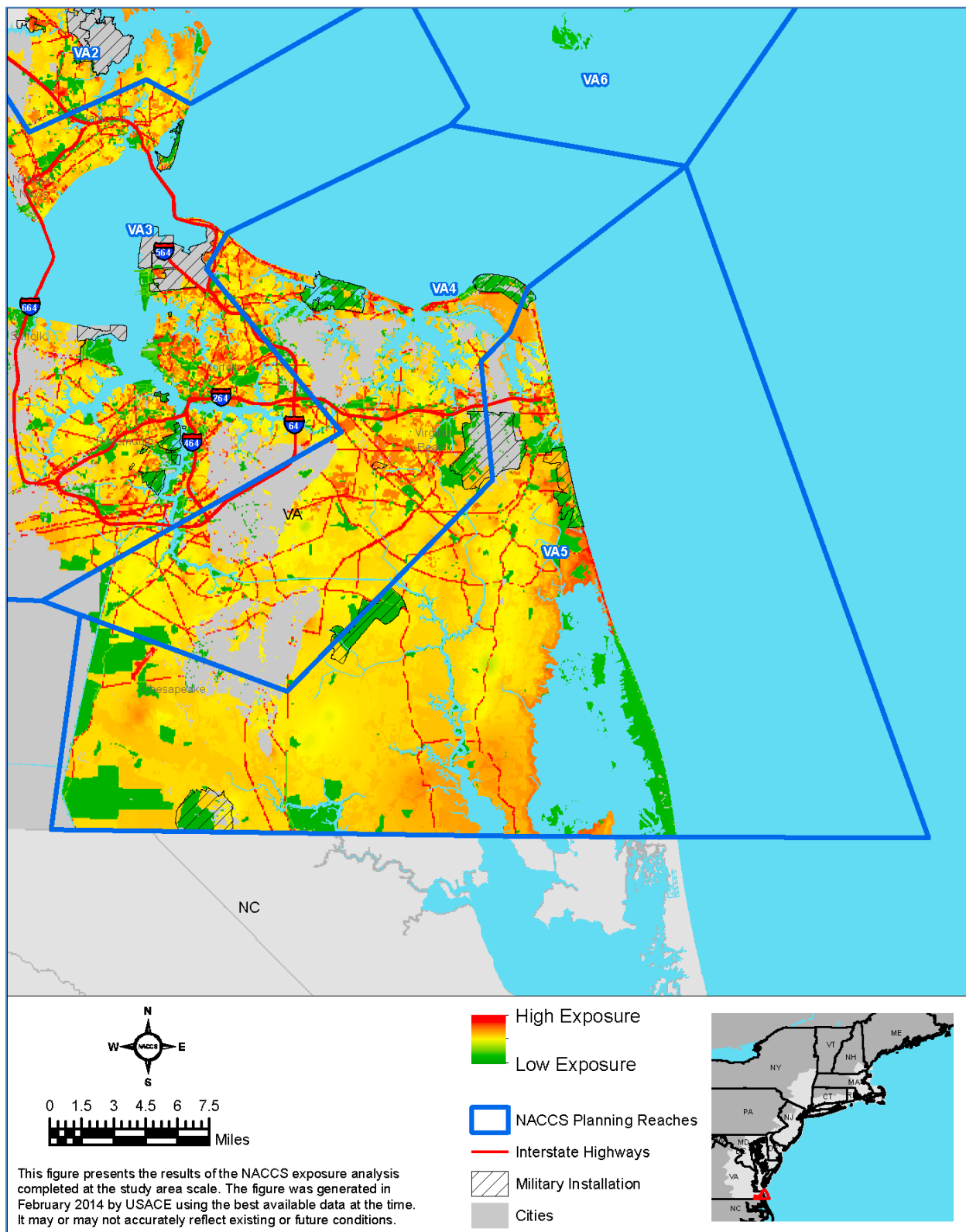


Figure 11g-76: Composite Exposure Index (VA5)

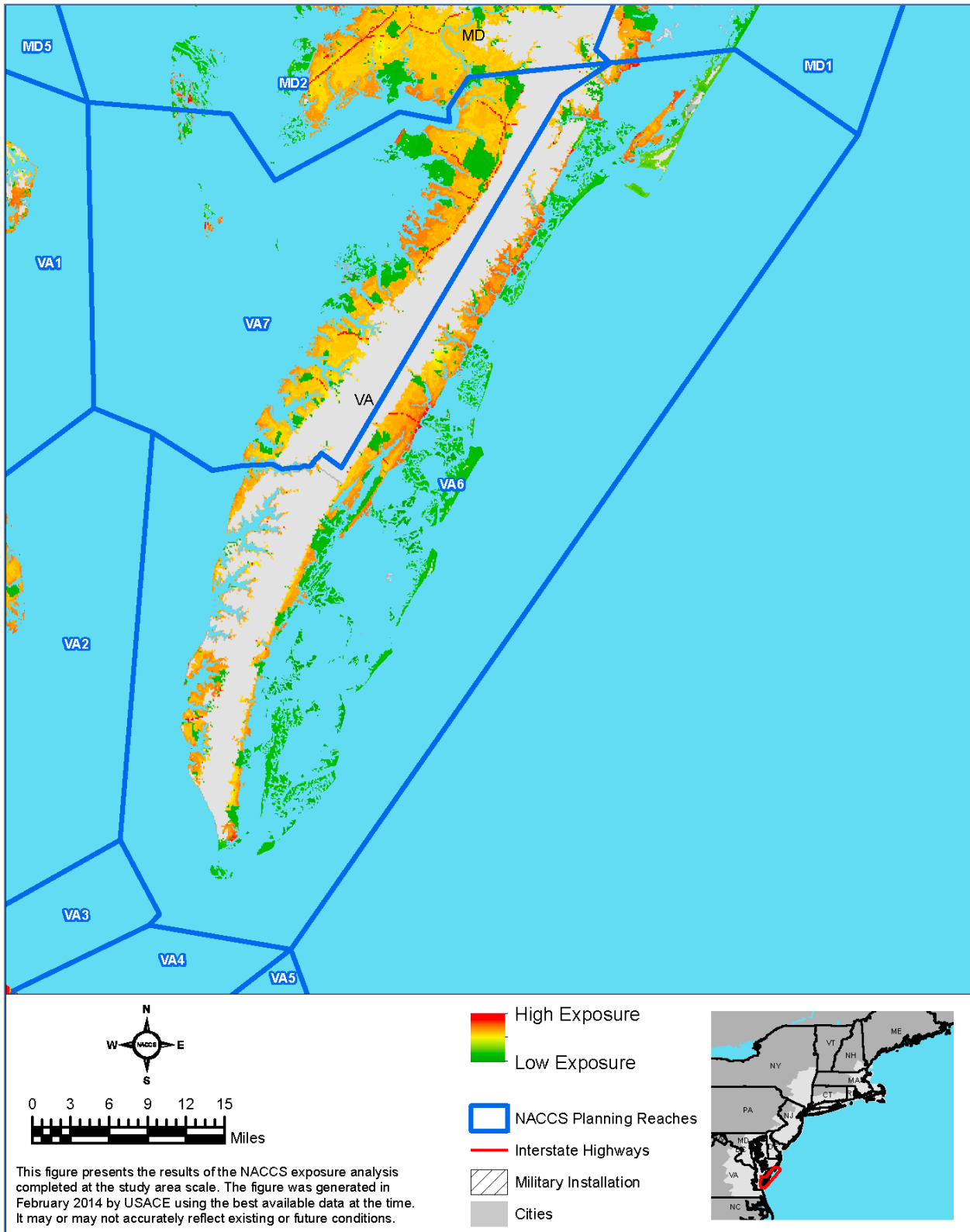


Figure 11g-77: Composite Exposure Index (VA6)

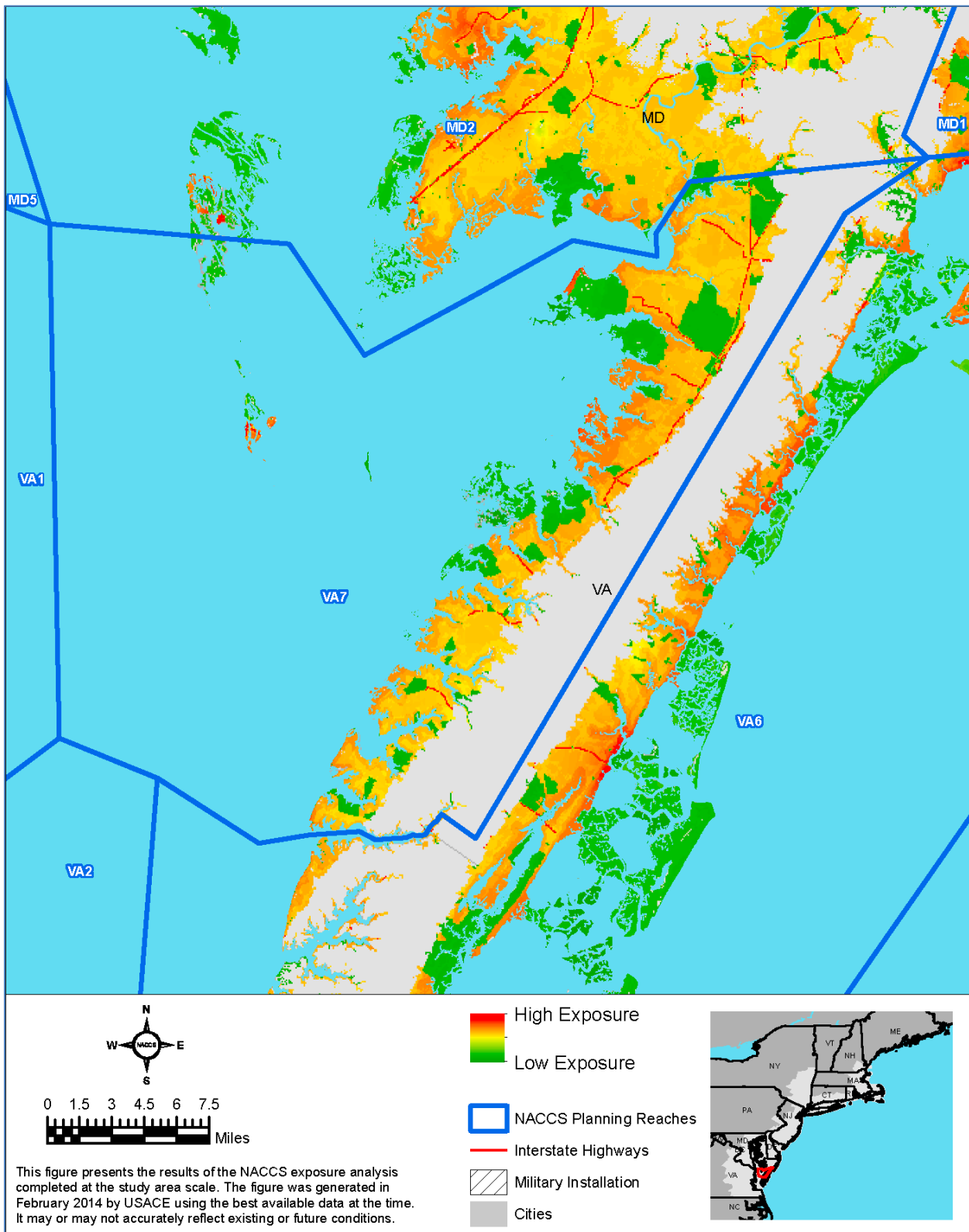


Figure 11g-78: Composite Exposure Index (VA7)

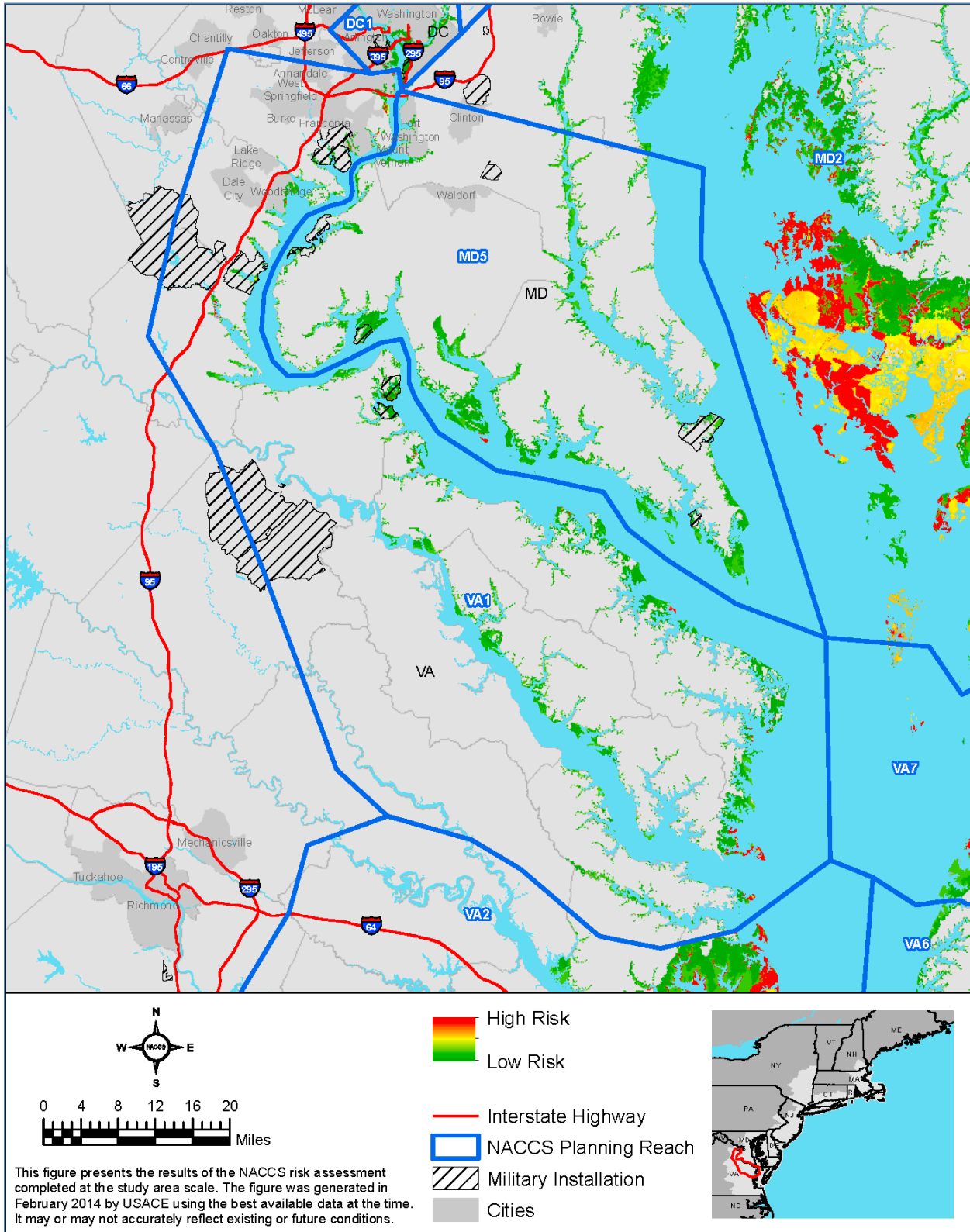


Figure IIg-79: Risk Assessment (VA1)

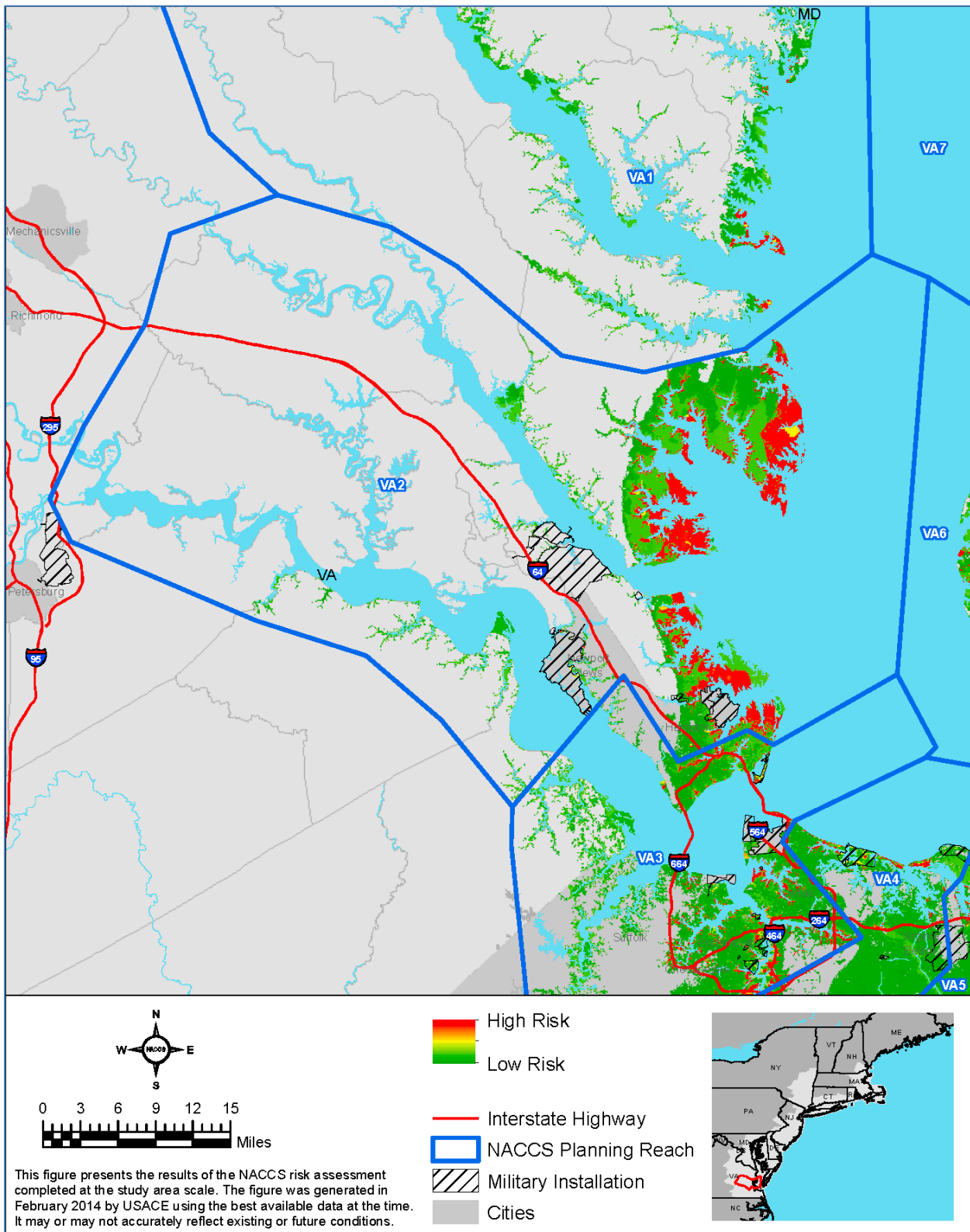


Figure 11g-80: Risk Assessment (VA2)

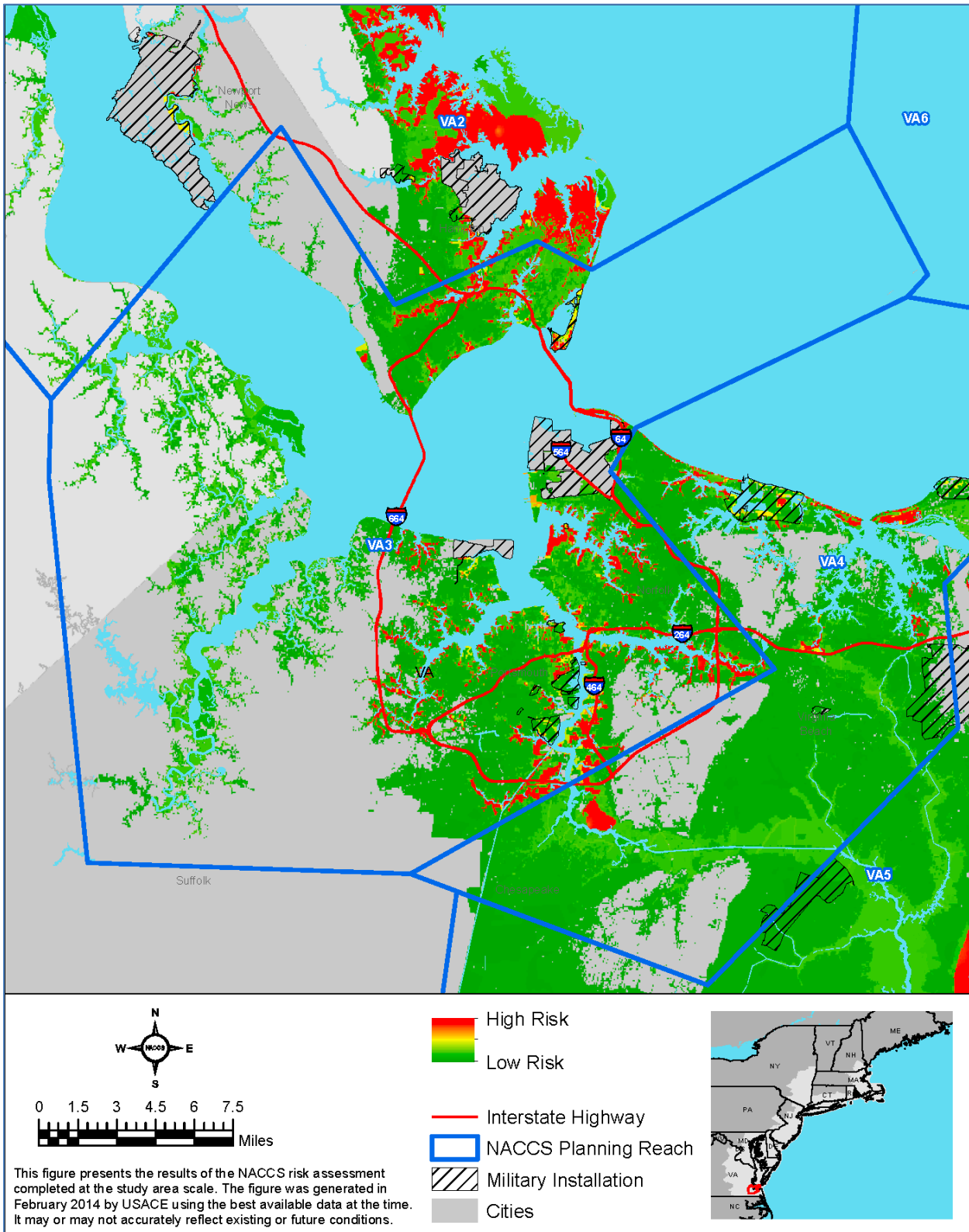
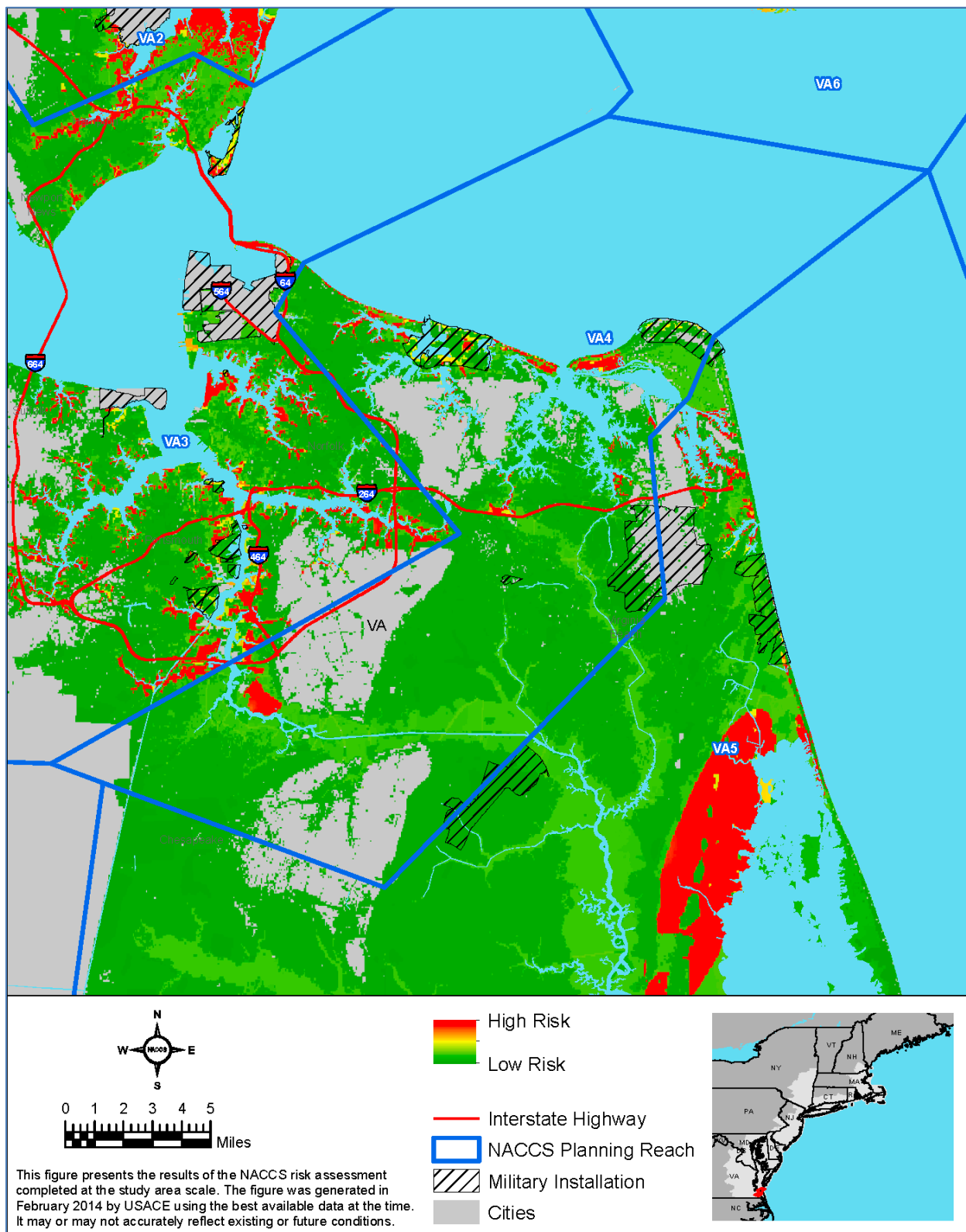


Figure IIg-81: Risk Assessment (VA3)



This figure presents the results of the NACCS risk assessment completed at the study area scale. The figure was generated in February 2014 by USACE using the best available data at the time. It may or may not accurately reflect existing or future conditions.

Figure 11g-82: Risk Assessment (VA4)

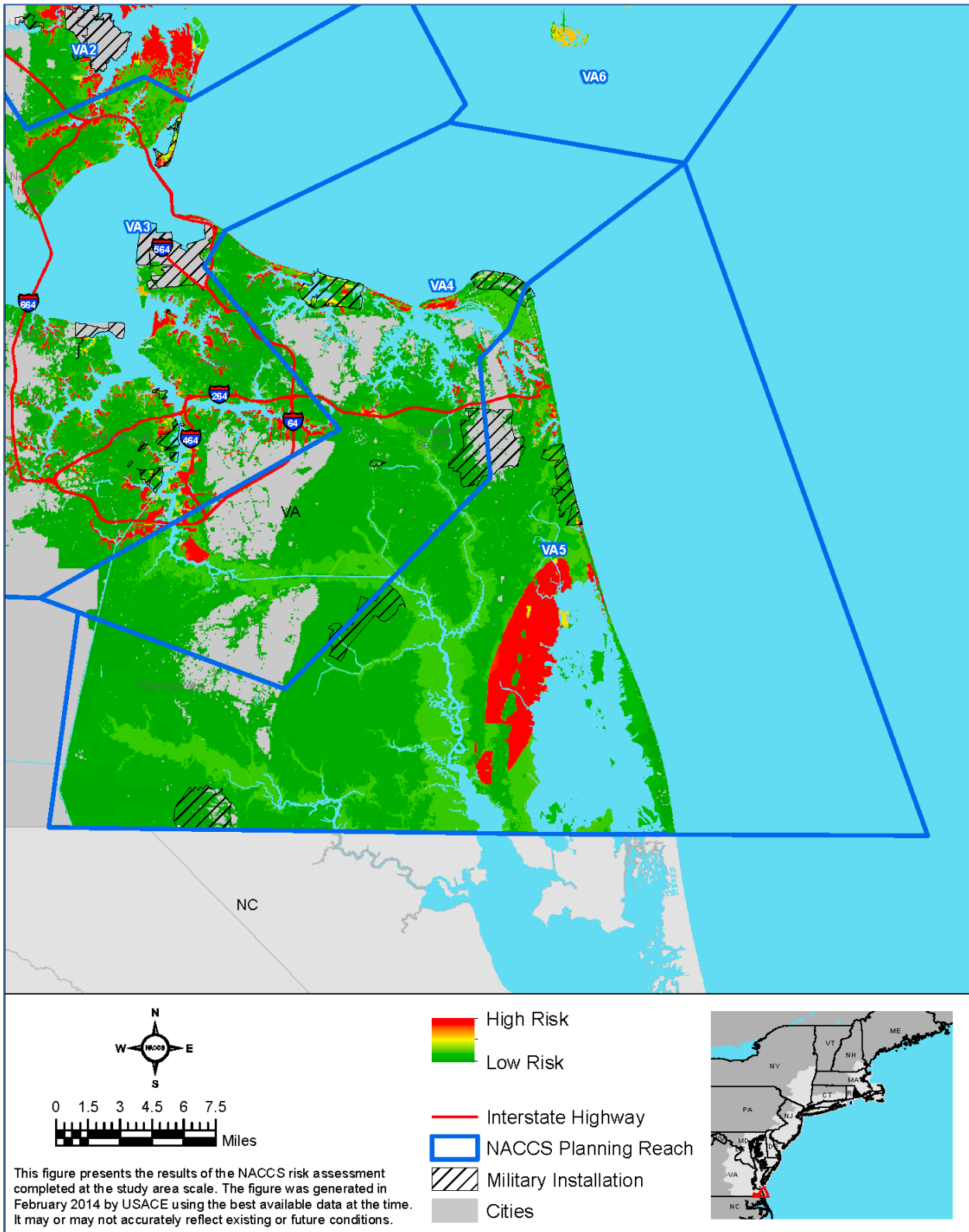


Figure 11g-83: Risk Assessment (VA5)

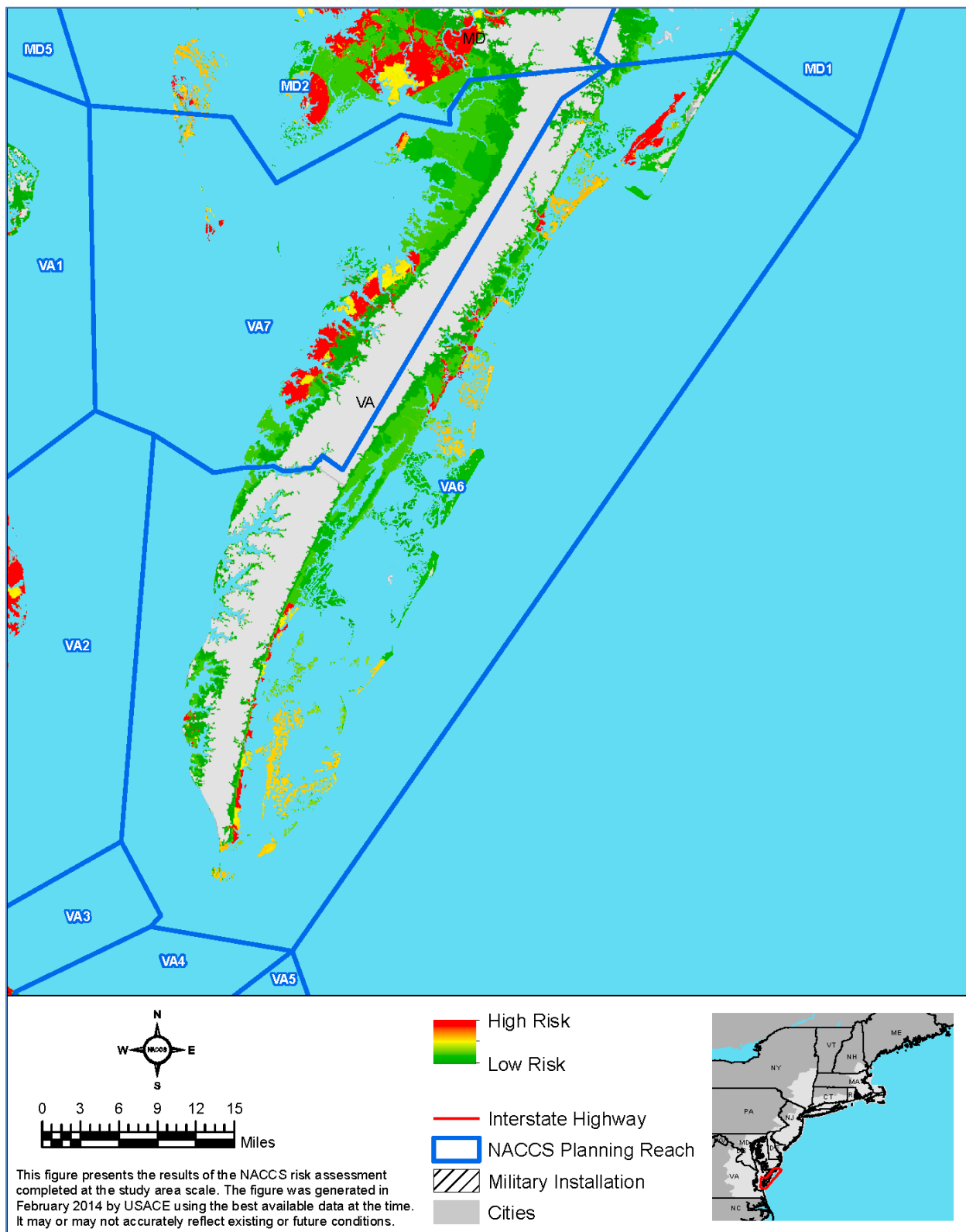


Figure IIg-84: Risk Assessment (VA6)

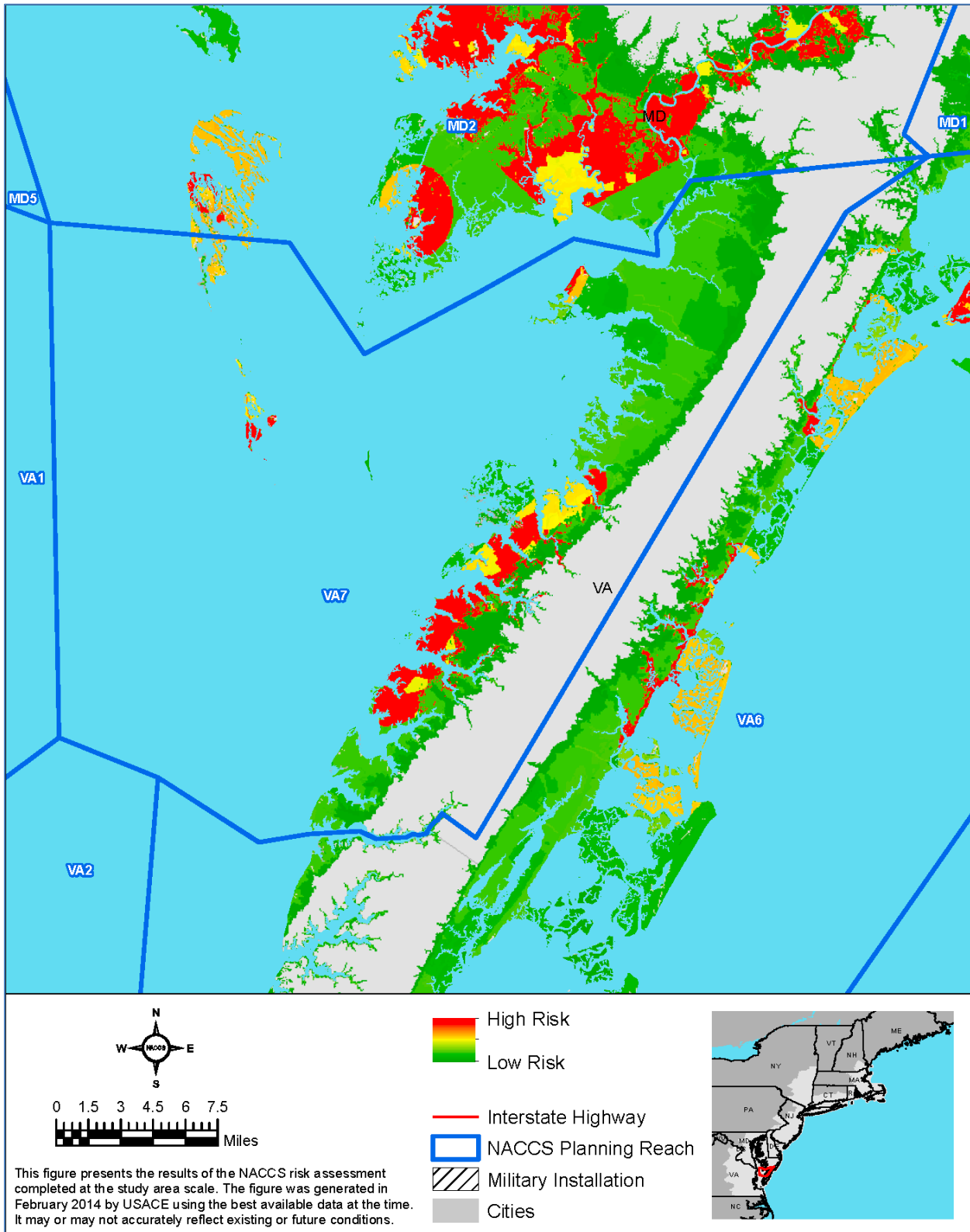


Figure IIg-85: Risk Assessment (VA7)

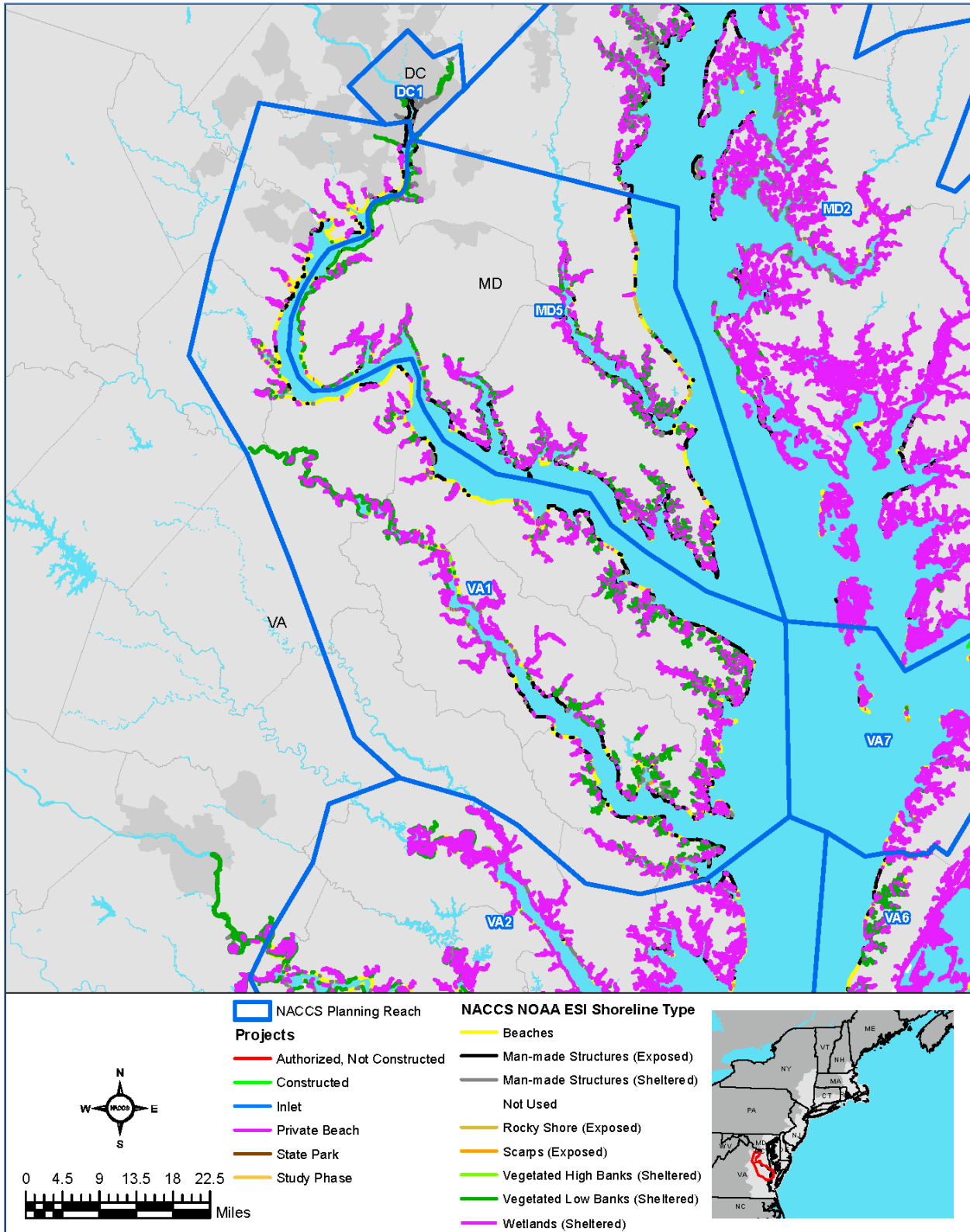
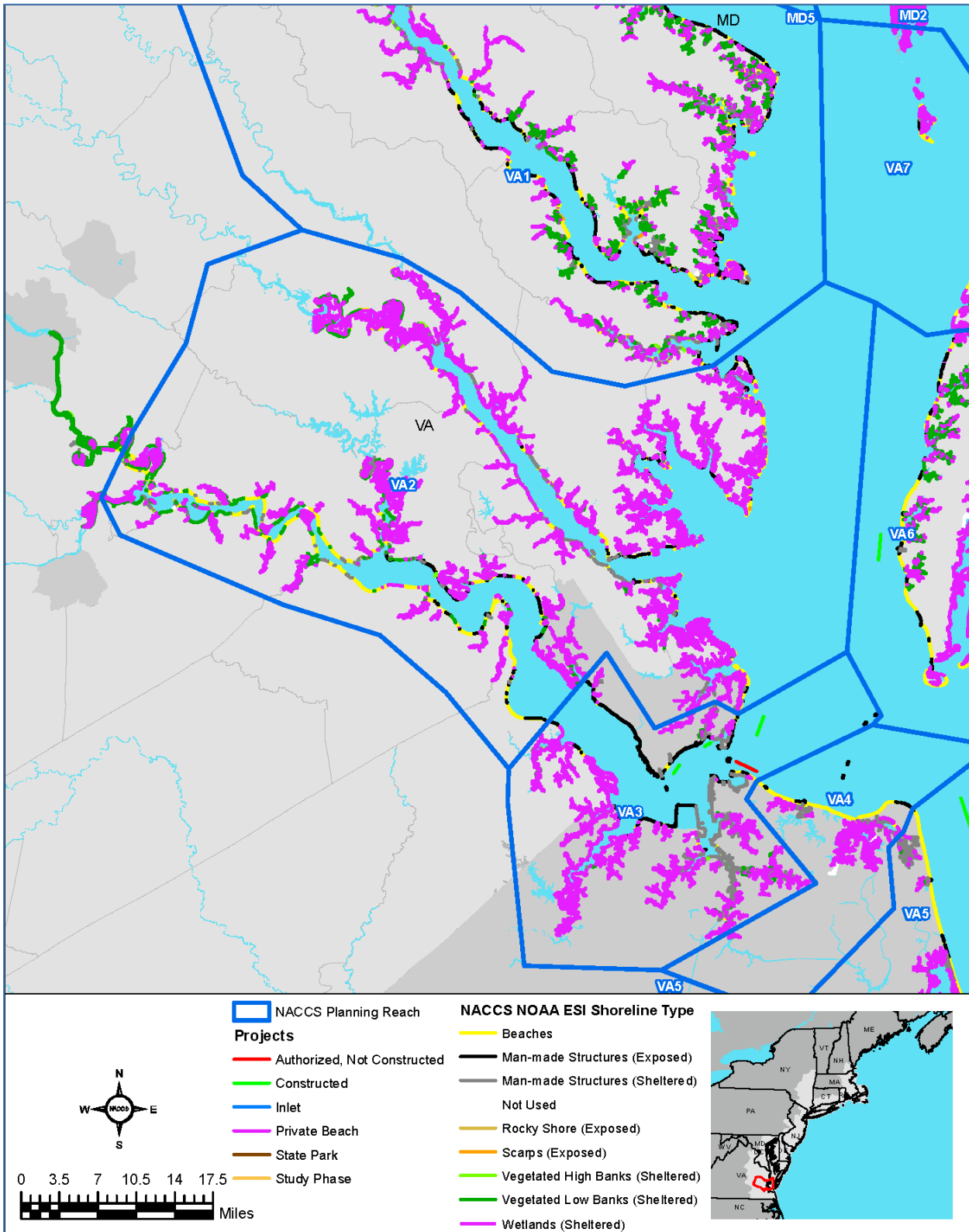


Figure IIg-86: Shoreline Types (VA1)



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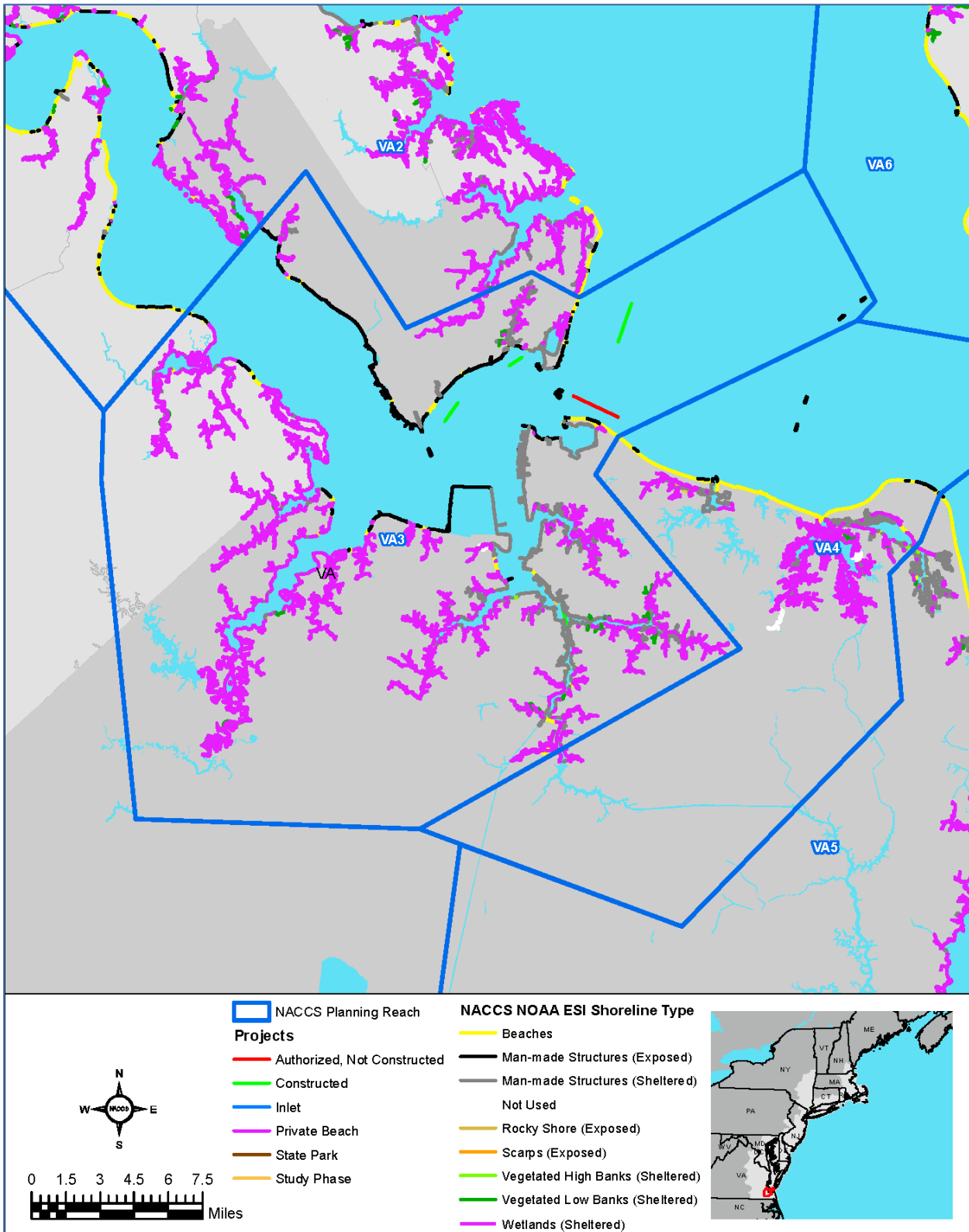


Figure 11g-88: Shoreline Types (VA2)

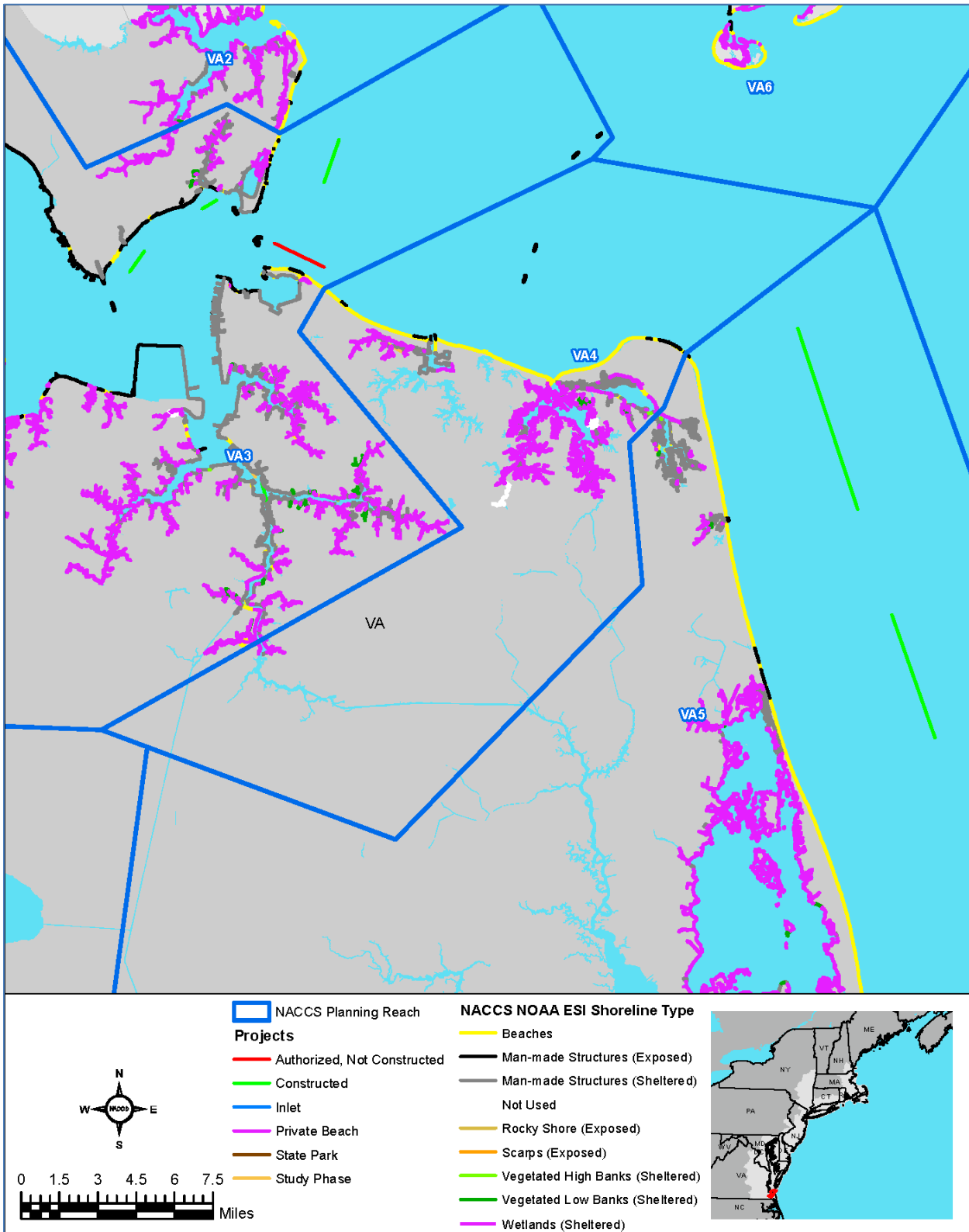


Figure IIg-89: Shoreline Types (VA4)

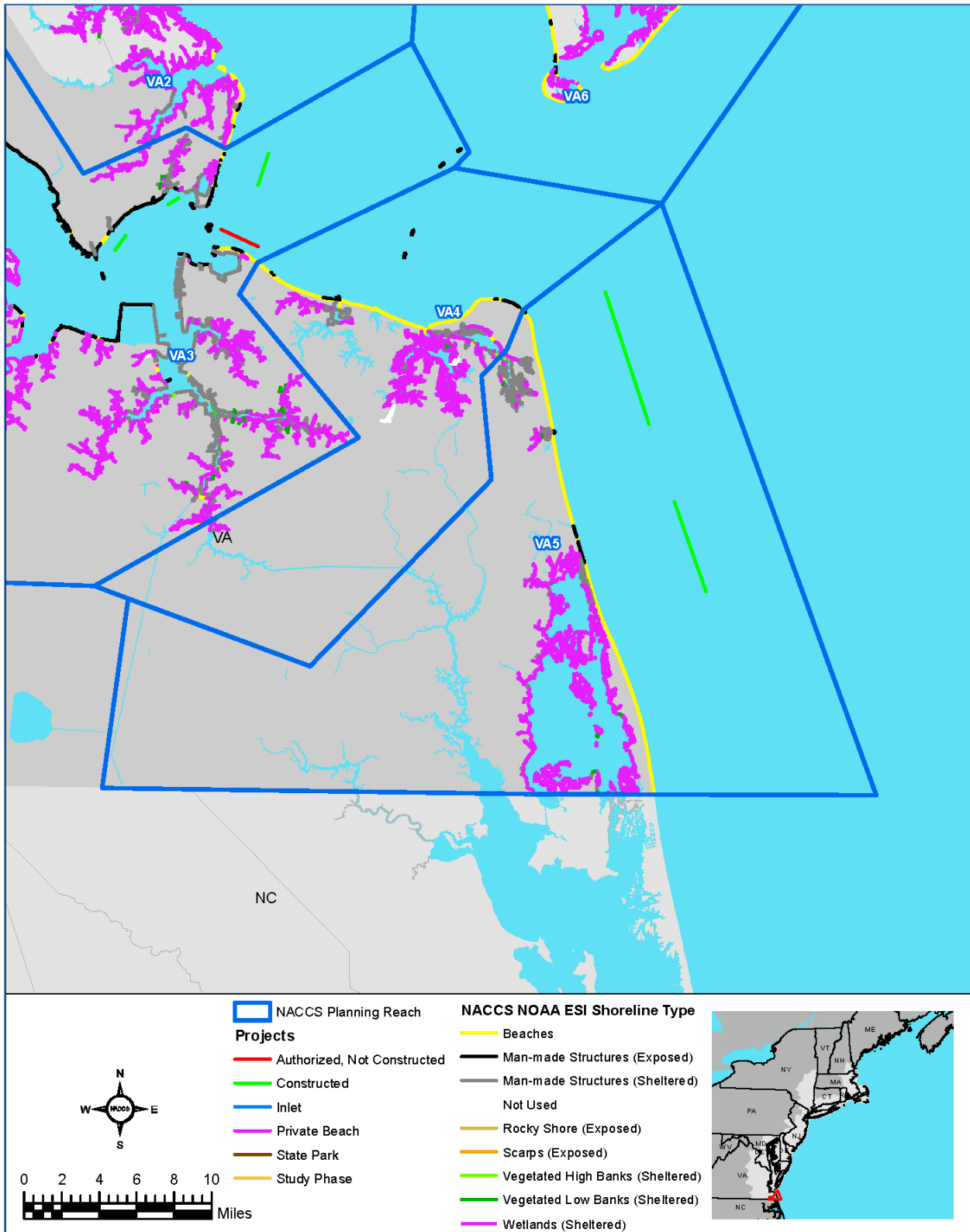
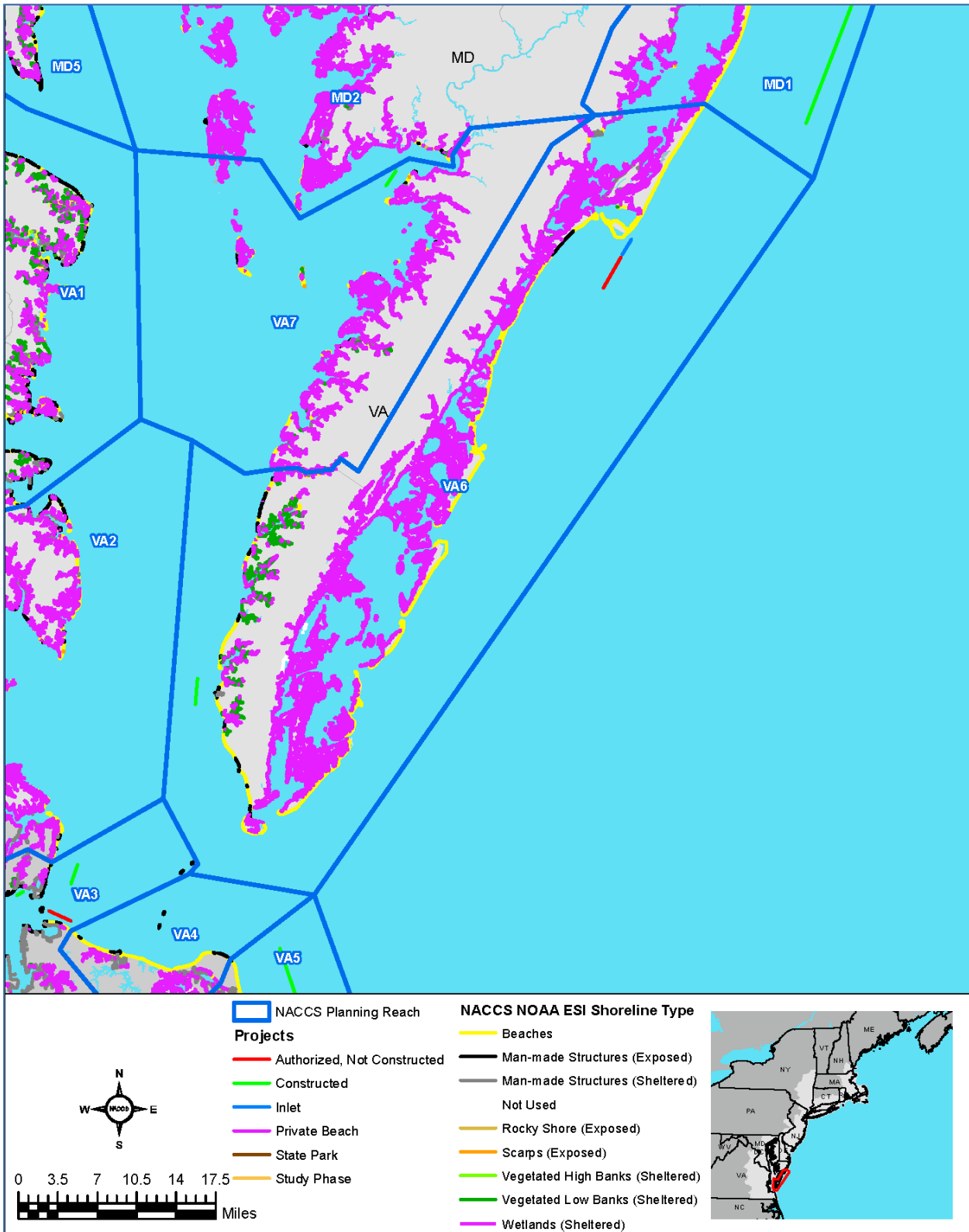


Figure 11g-90: Shoreline Types (VA5)



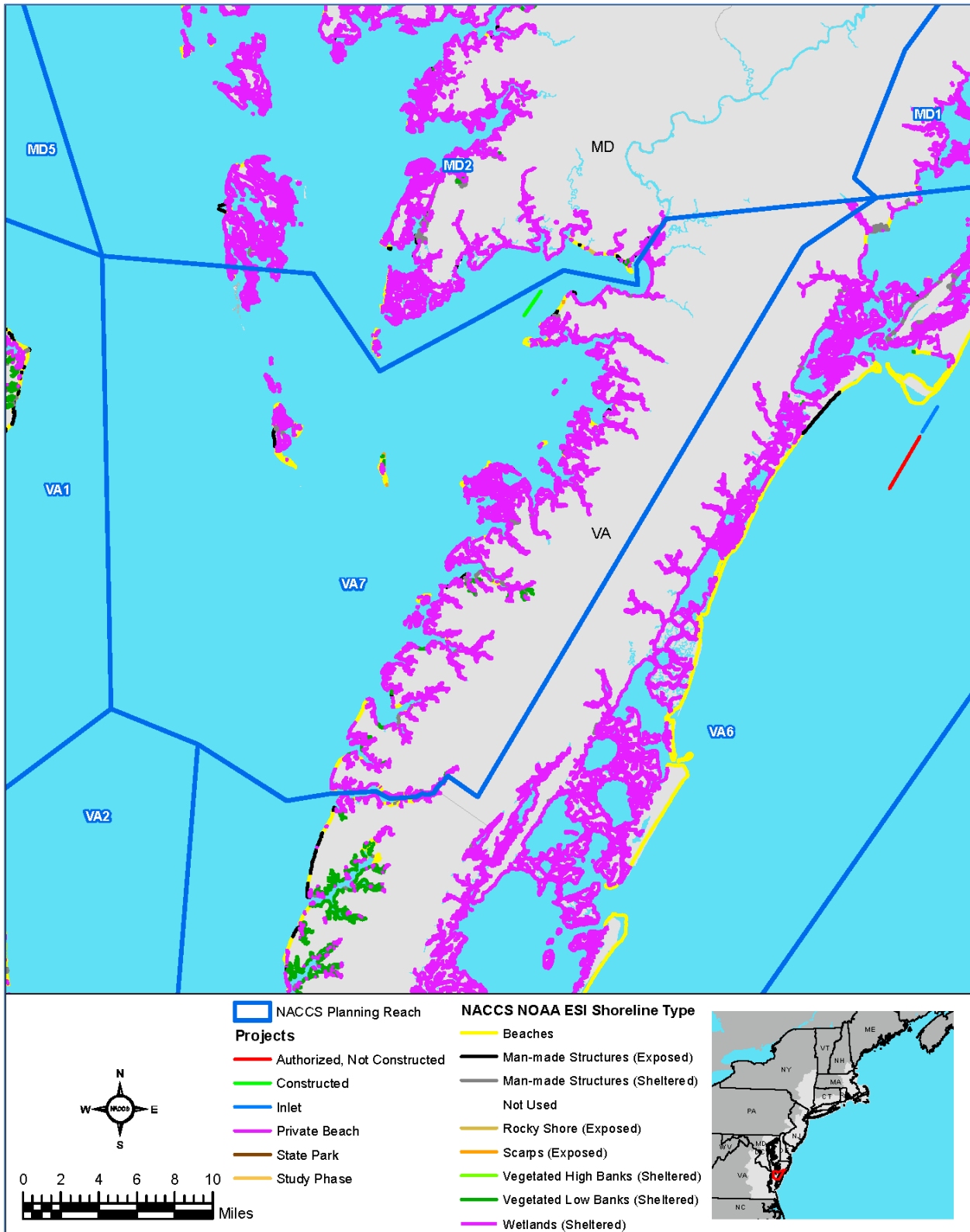


Figure 11g-92: Shoreline Types (VA7)

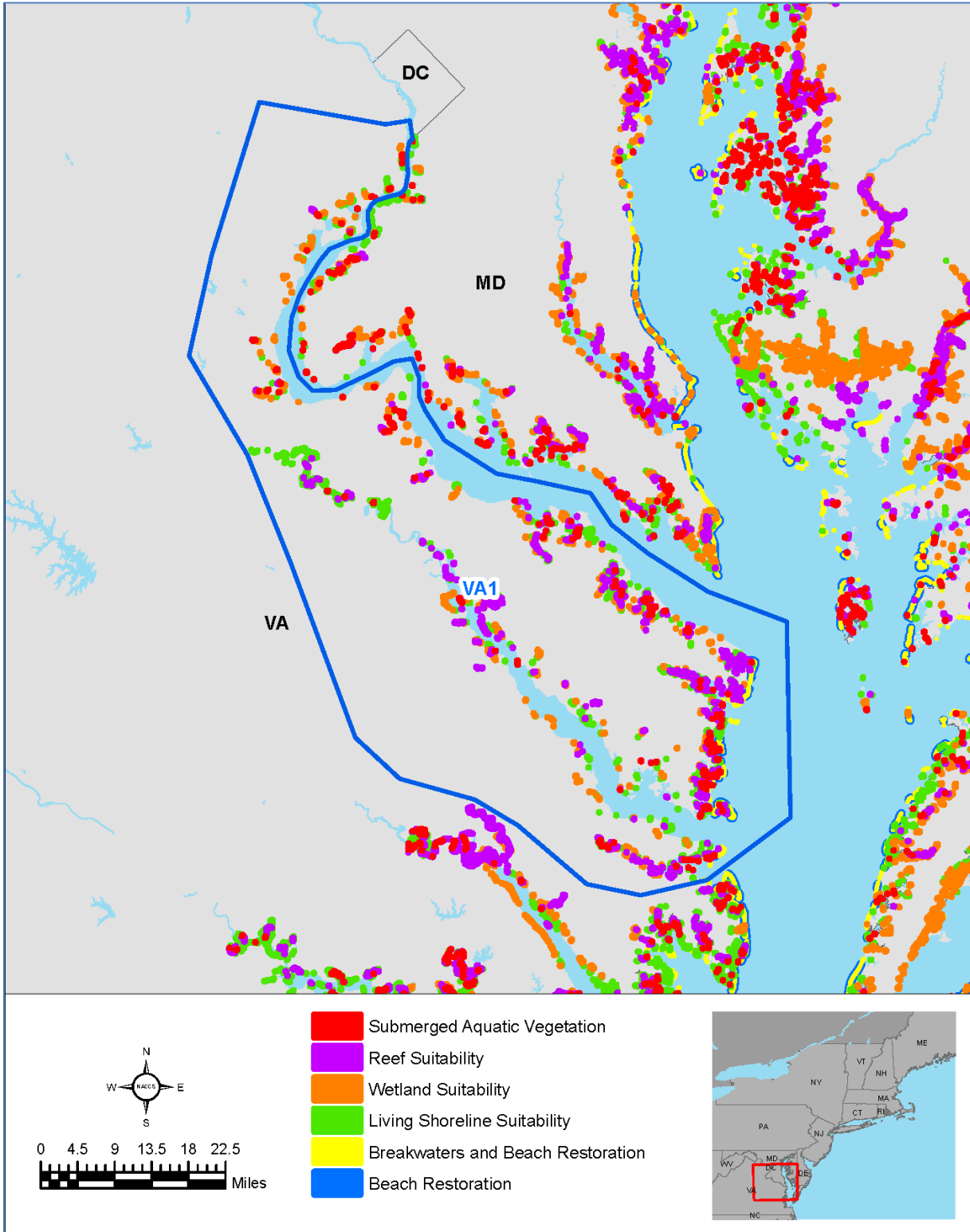


Figure IIg-93: NBF Measures Screening (VA1)

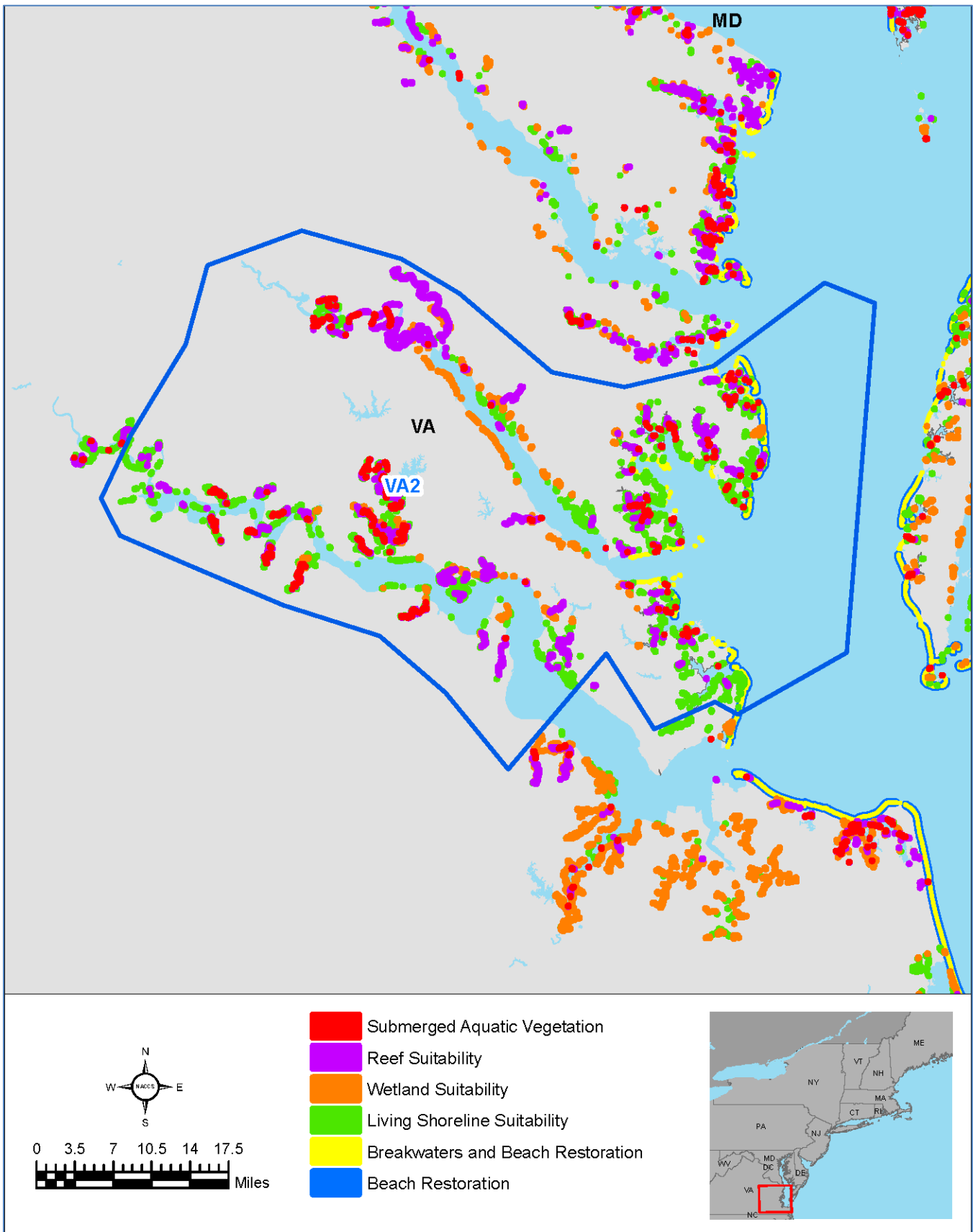


Figure IIg-94: NNBf Measures Screening (VA2)

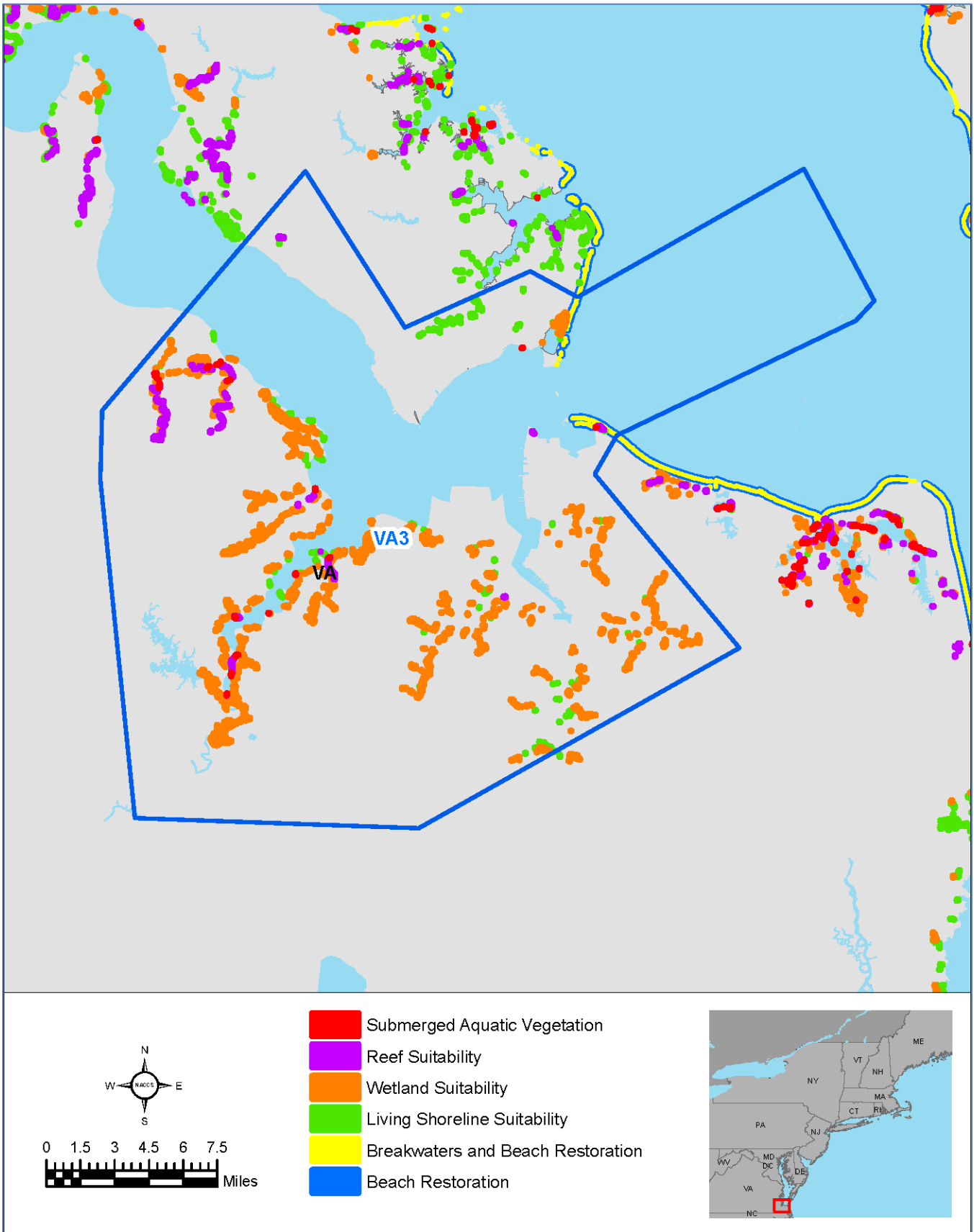


Figure IIg-95: NNBf Measures Screening (VA3)

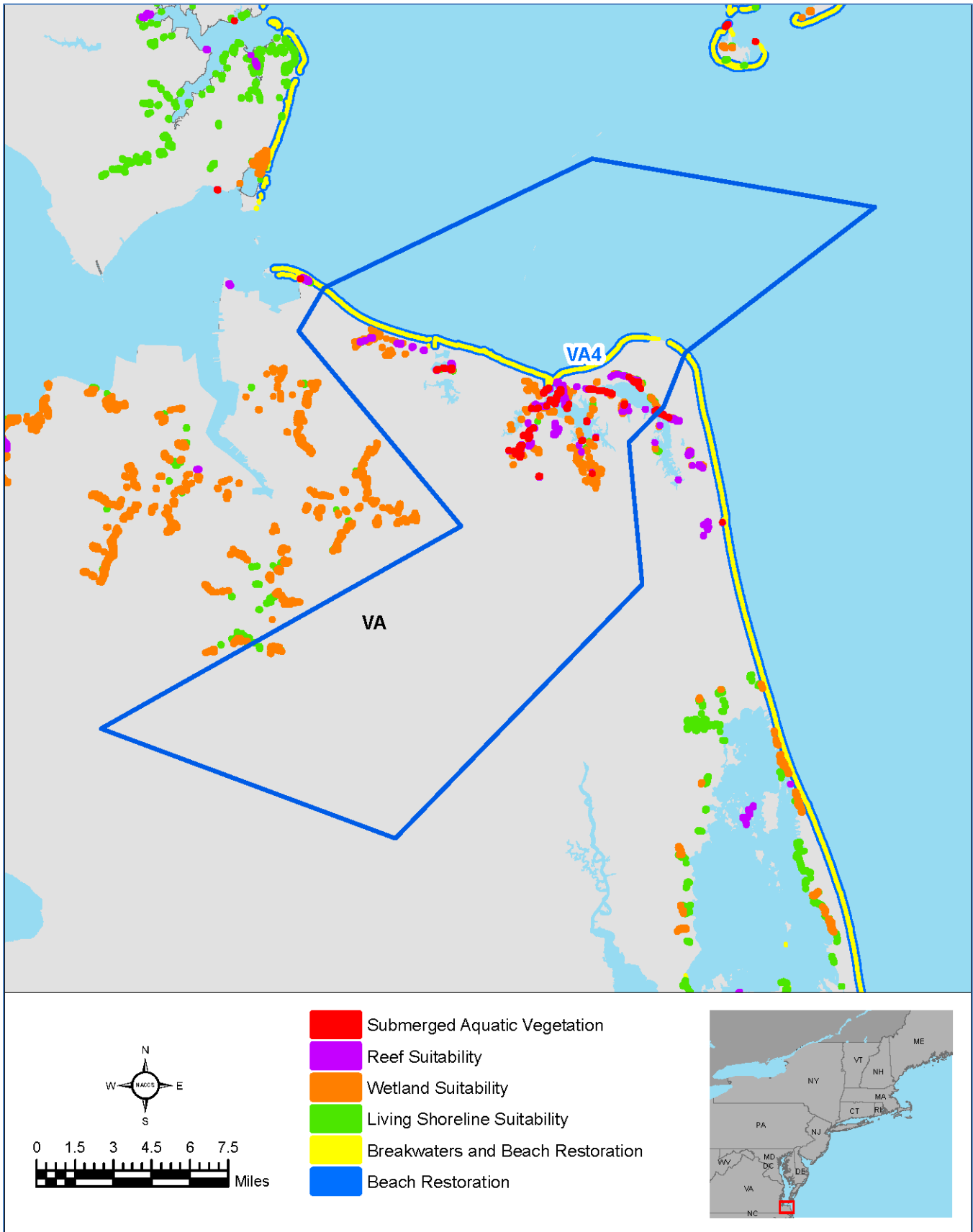


Figure IIg-96: NNBf Measures Screening (VA4)

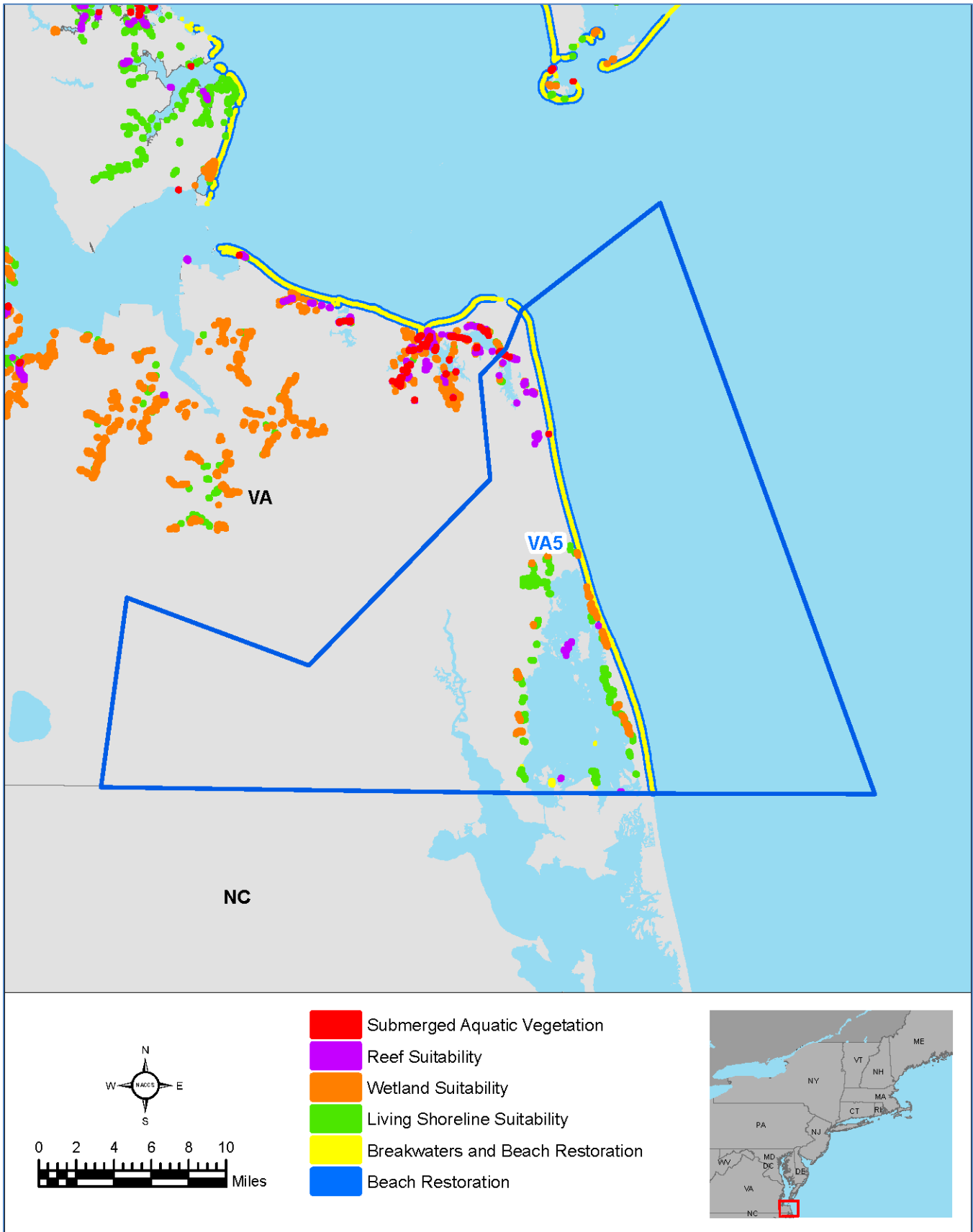


Figure 11g-97: NNBf Measures Screening (VA5)

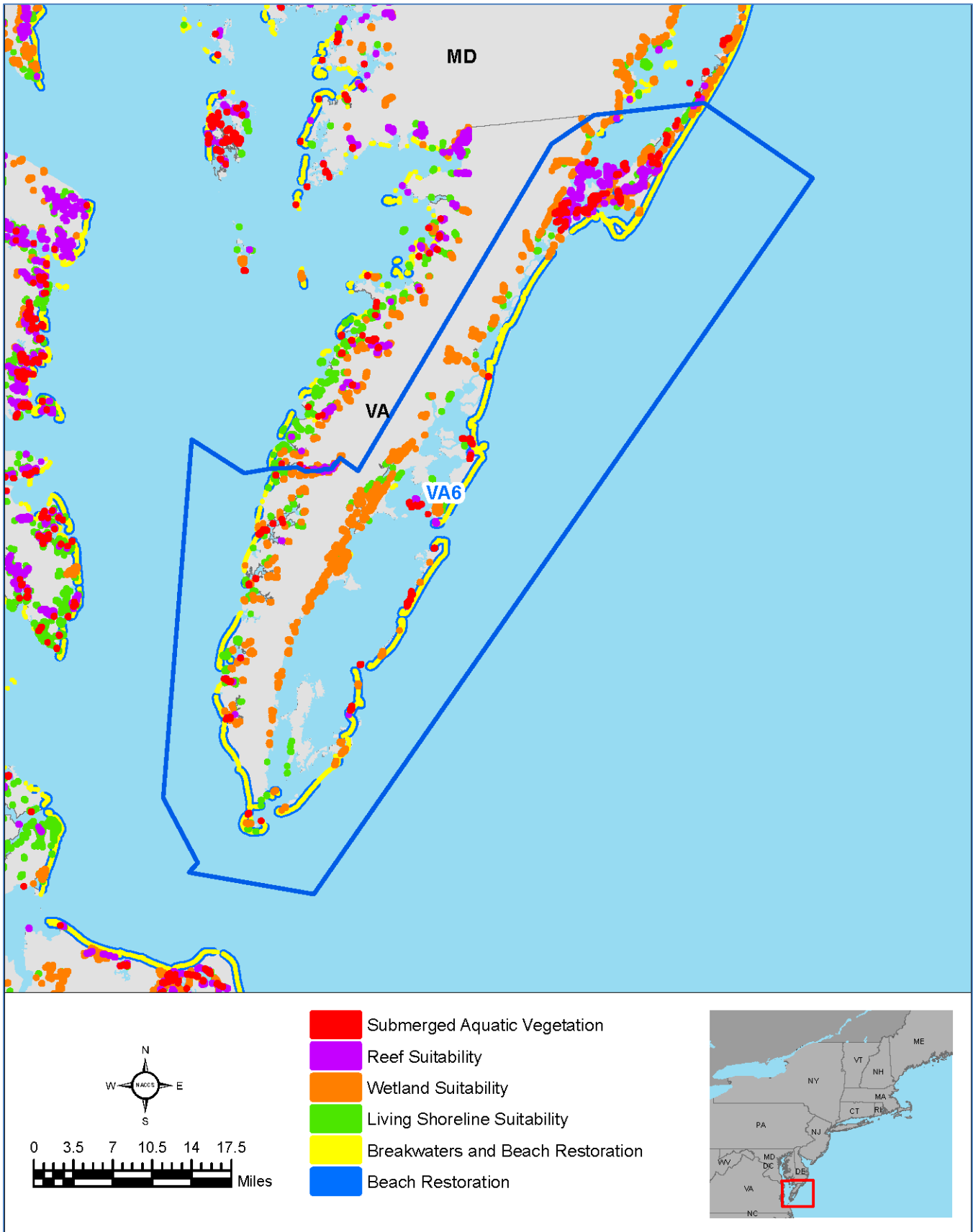


Figure IIg-98: NNBf Measures Screening (VA6)

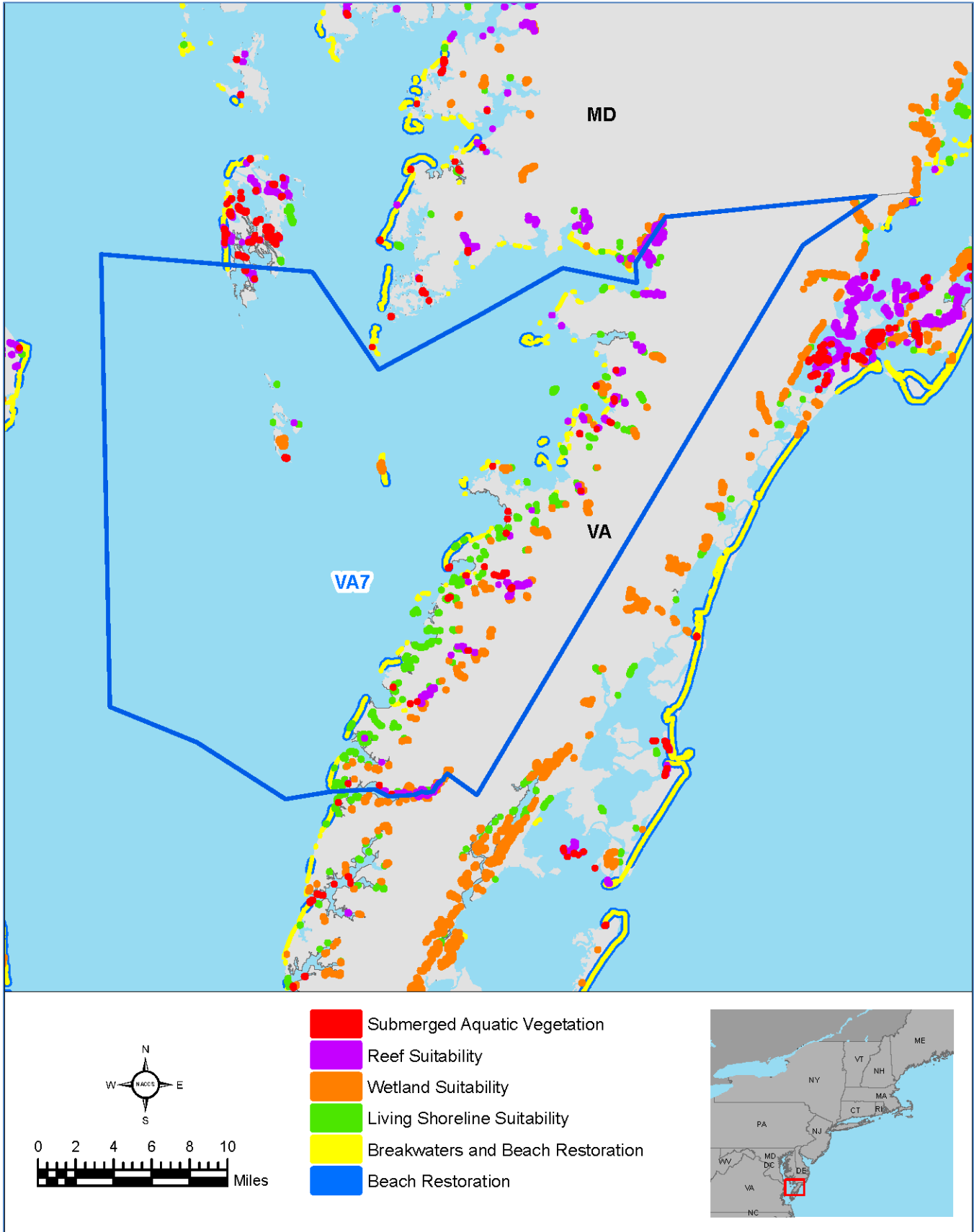


Figure IIg-99: NNB Measures Screening (VA7)



III. References

USACE (2015). North Atlantic Coast Comprehensive Study: Resilient Adaptation to Increasing Risk.
U.S. Army Corps of Engineers.