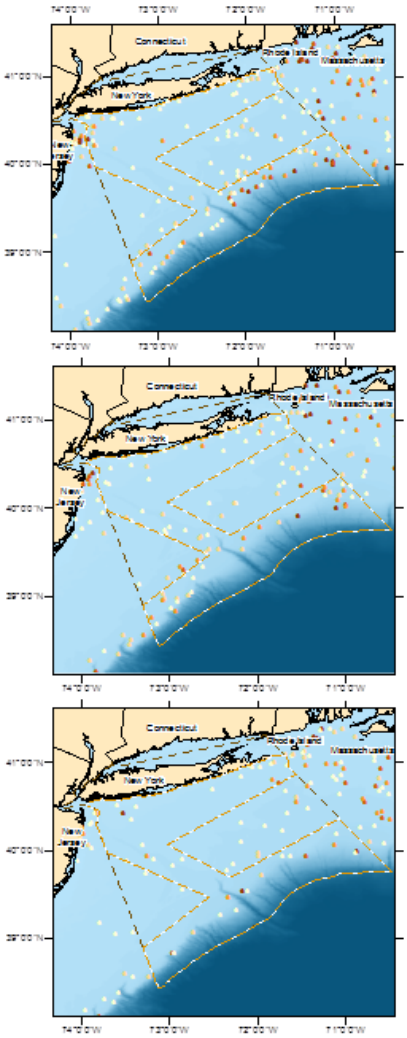
Spatial Characterization of Marine Fishes to Support New York Coastal and Marine Spatial Planning



American Lobster Species Abundance
Fall, Adult 1980 - 2009

Project ID 071866-G
September 30, 2010

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Prepared for:
New York State Department of State
99 Washington Avenue, Suite 1010
Albany, NY 12231
Tel: / 518.474.6000

Prepared by:
Stone Environmental, Inc.
535 Stone Cutters Way,
Montpelier, VT 05602
Tel: / 802.229.4541
Fax: / 802.229 5417
E-Mail / sei@stone-env.com

ACKNOWLEDGEMENTS

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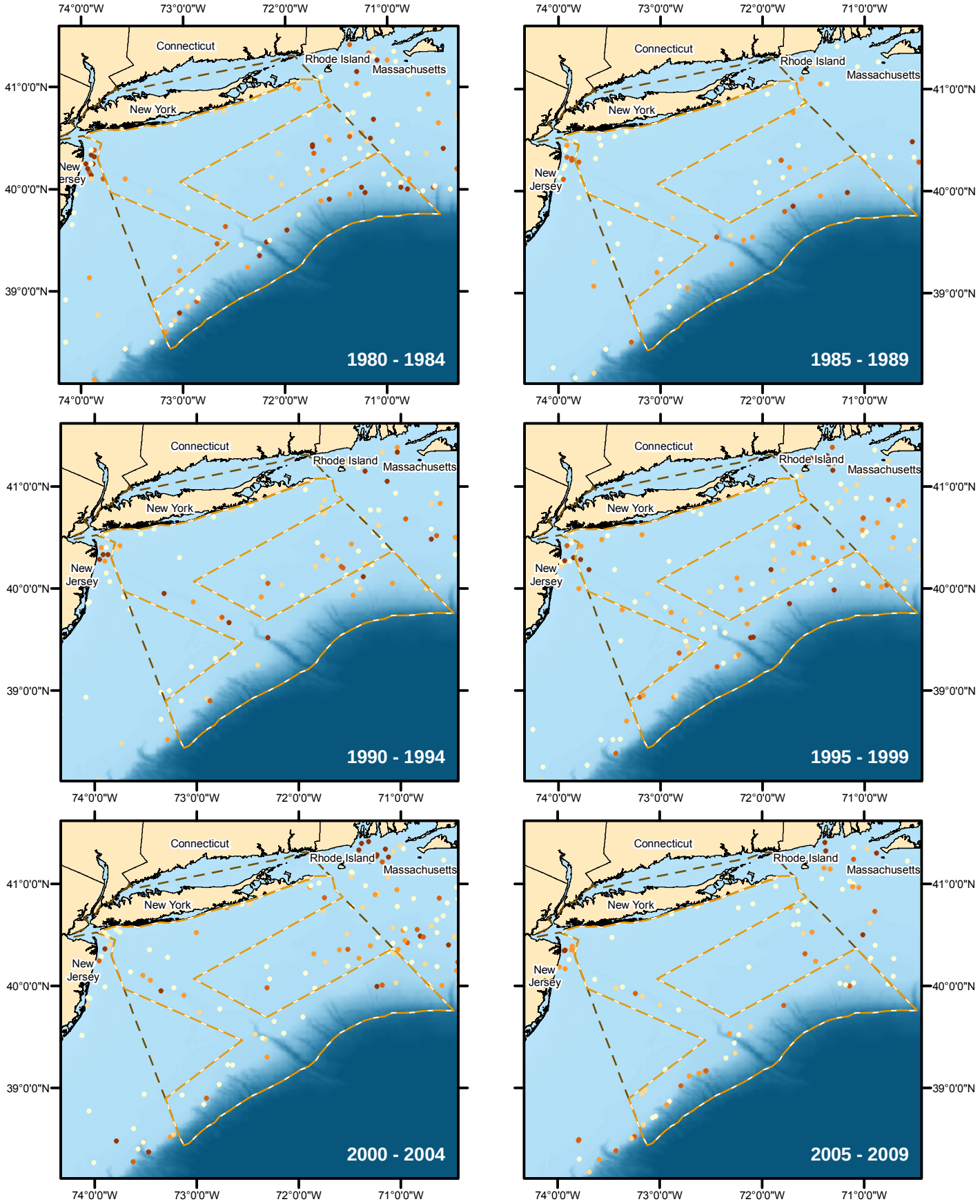
This report supports New York State's effort to better understand the habitats that New York's existing ocean-based industries depend upon, based on the actual or predicted locations of existing uses and resources. This is the first of many steps to guide and inform the future siting of offshore activities, and is being conducted in parallel with the New York State Department of State's effort to update and amend the State's Coastal Management Program. These two related efforts have continued to evolve in response to the availability of information. Of particular relevance to this report, the Department of State has combined the two phases of its offshore Atlantic Ocean planning. For this reason, the area defined as "NY's Phase I CMP Amendment Boundary" in the following maps can be ignored, with the focus instead on the area identified as "NY's Offshore Planning Boundary".



American Lobster Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (3)

High (8+)

NY's Phase I CMP Amendment Boundary

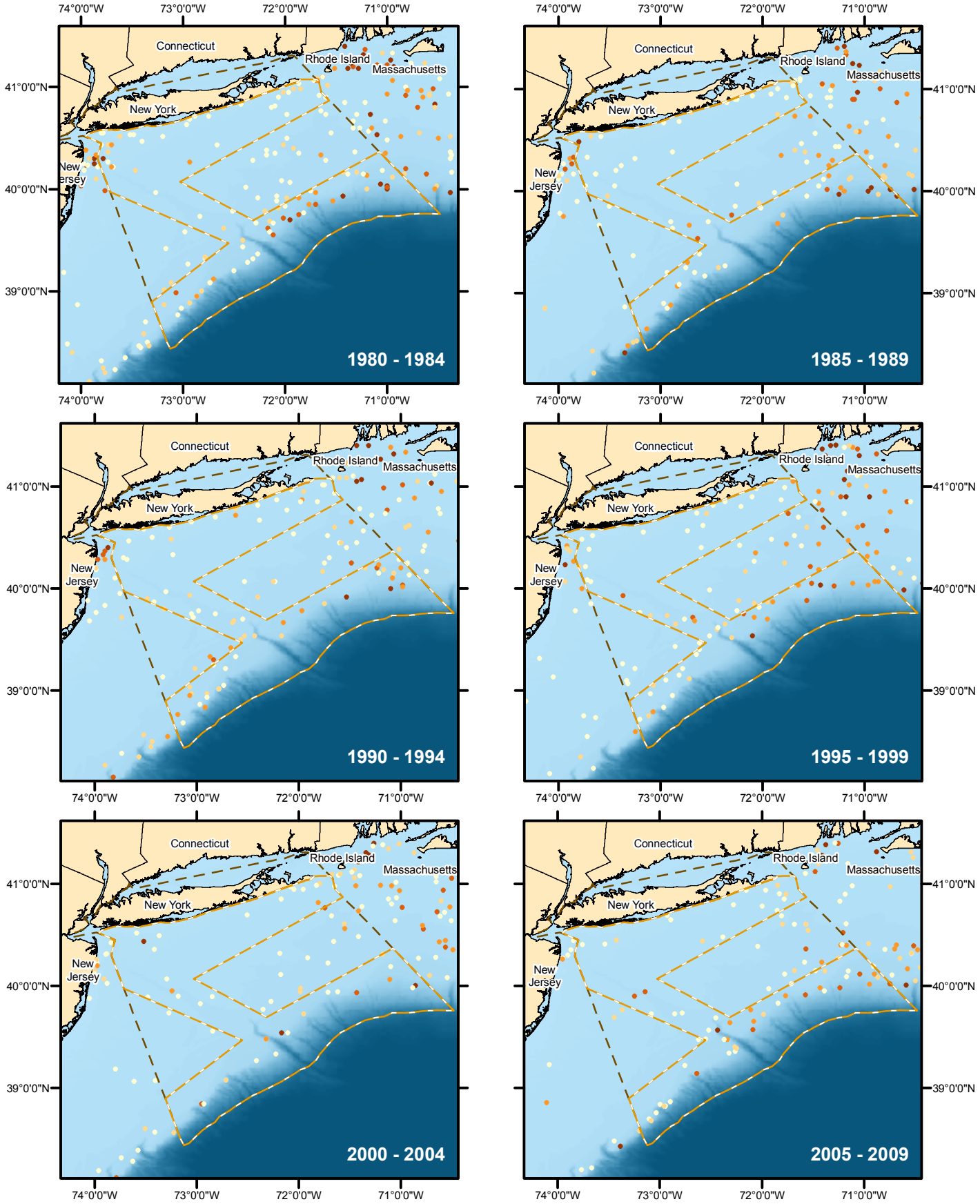
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



American Lobster Species Abundance

Fall, Adult 1980 - 2009

Low (1)
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High (8+)

NY's Phase I CMP Amendment Boundary
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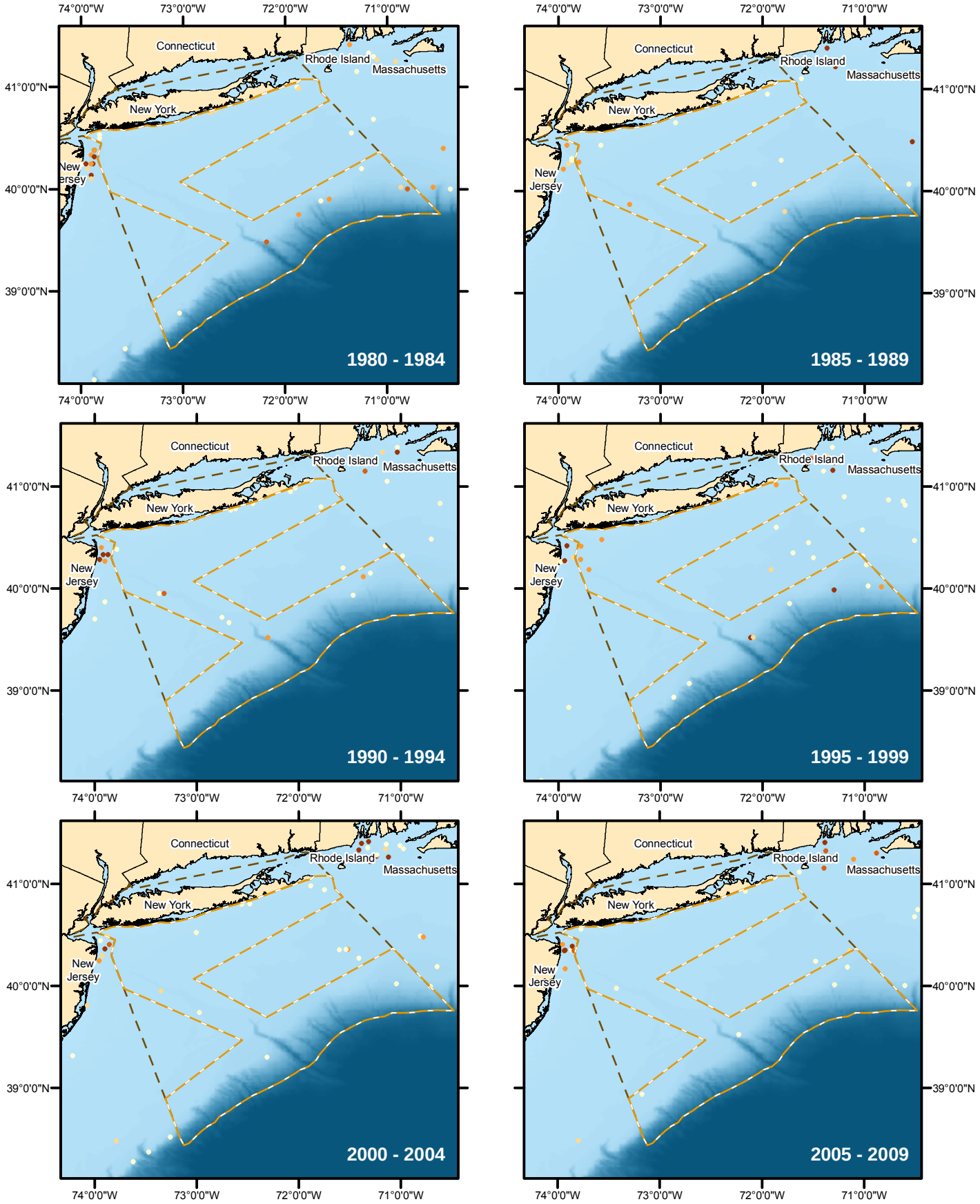
0 25 50 nm
0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



American Lobster Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (3)

High (8+)

NY's Phase I CMP Amendment Boundary

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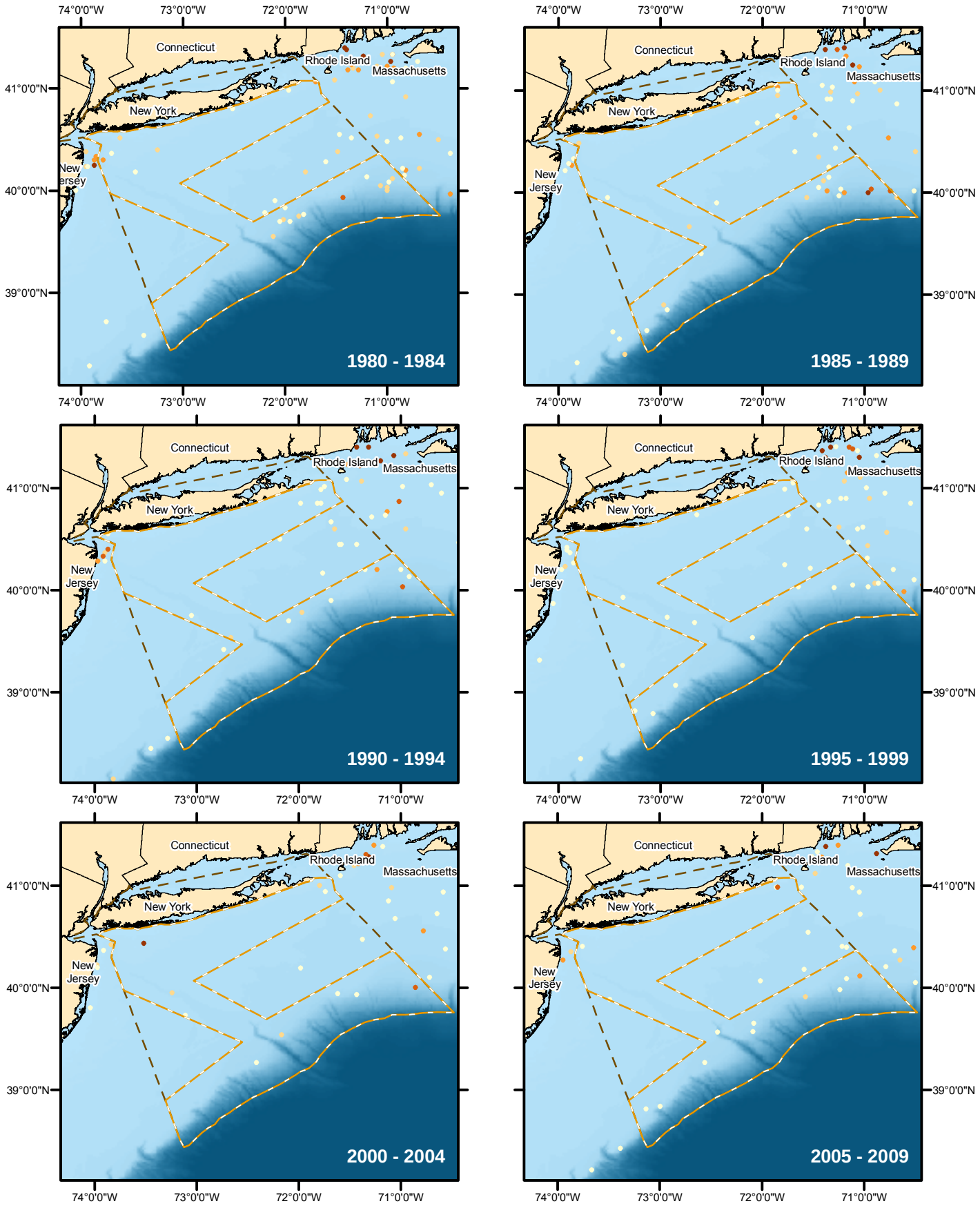

American Lobster Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

Med (3)

High (8+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

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Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
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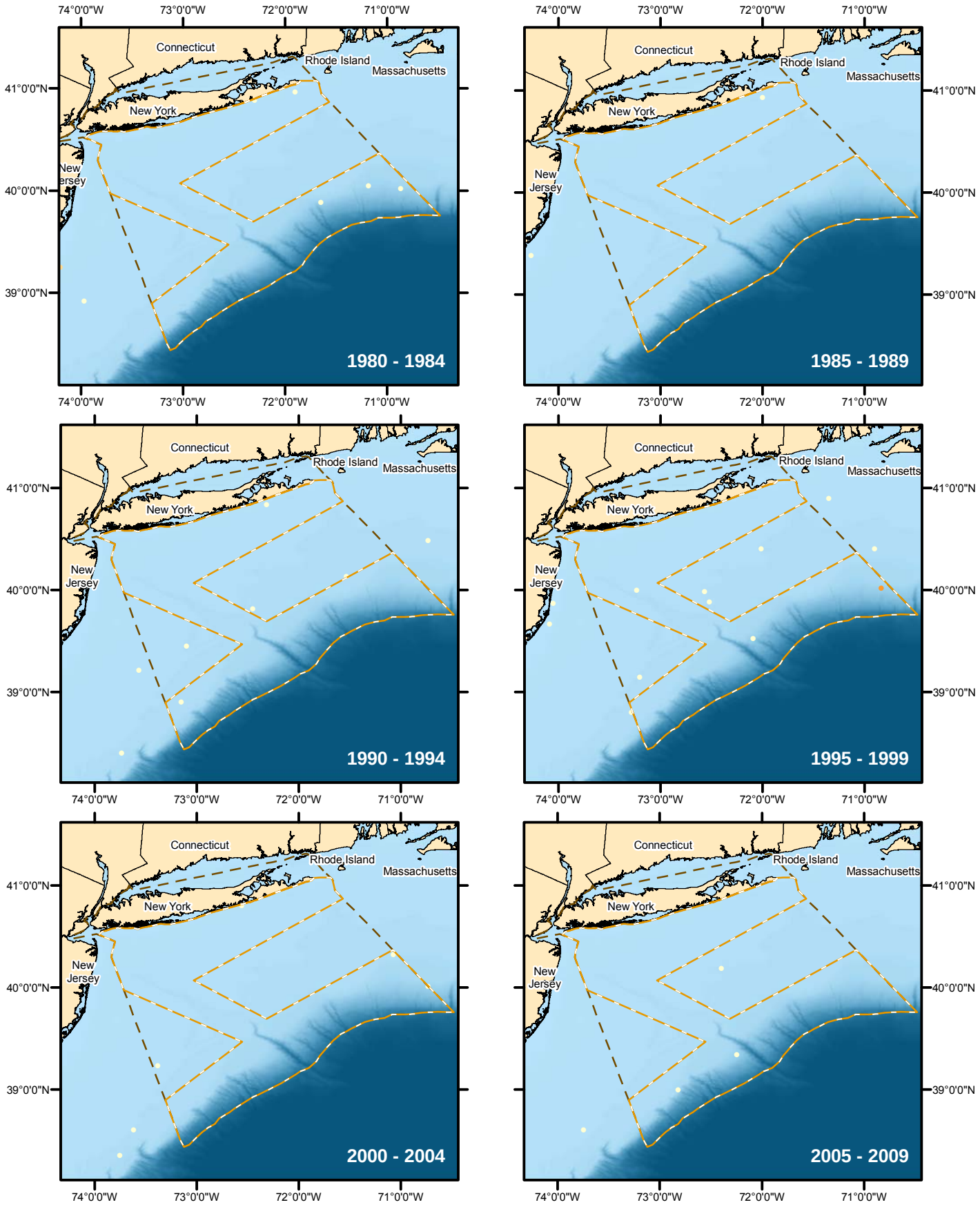


American Shad Species Abundance

Spring, Adult 1980 - 2009

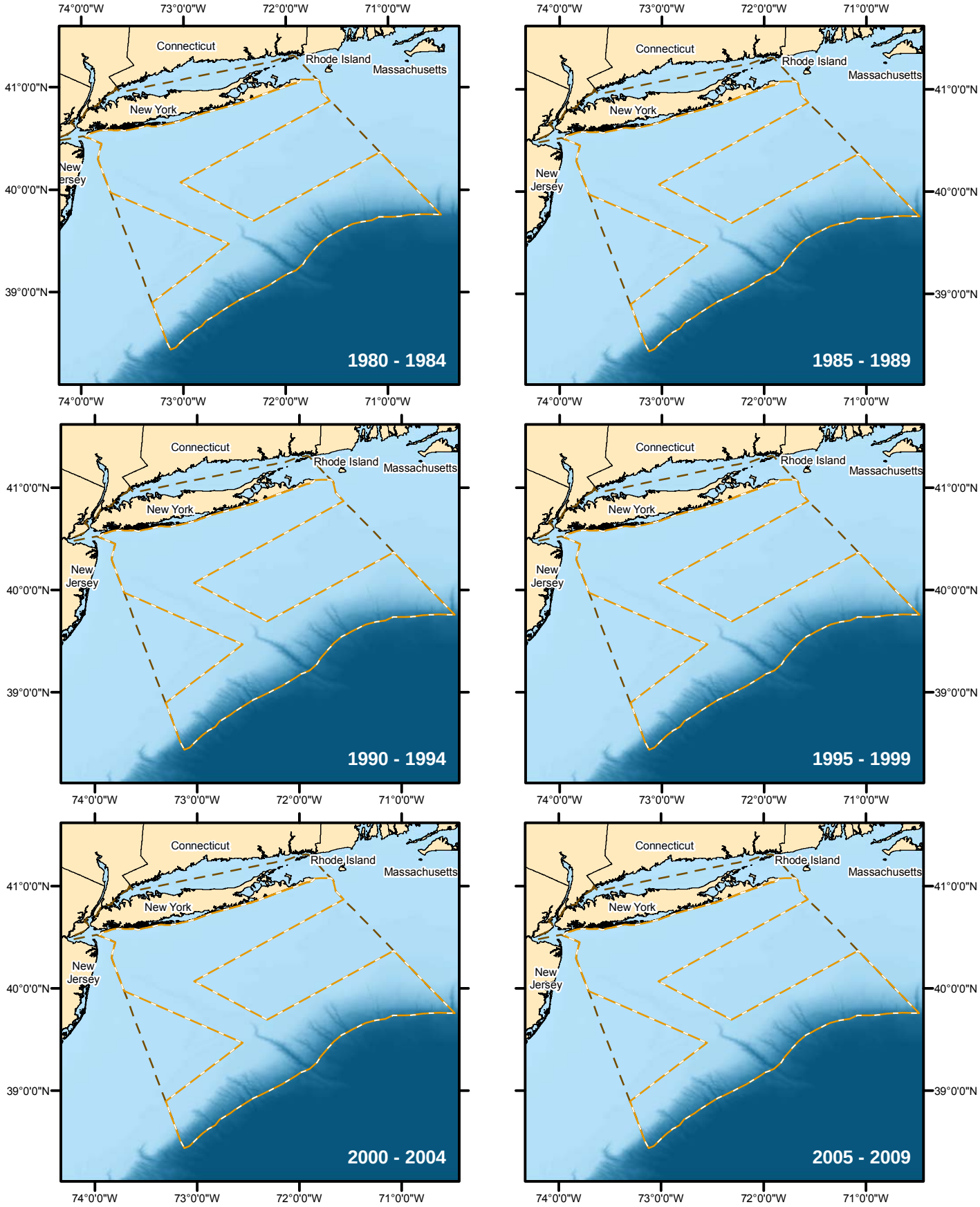
Low (1)
Med (3)
High (8+)

NY's Phase I CMP Amendment Boundary
NY's Offshore Planning Boundary

0 25 50 nm
0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



American Shad Species Abundance

Fall, Adult 1980 - 2009

Low (1)
Med (3)
High (8+)

NY's Phase I CMP Amendment Boundary
NY's Offshore Planning Boundary

0 25 50 nm
0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
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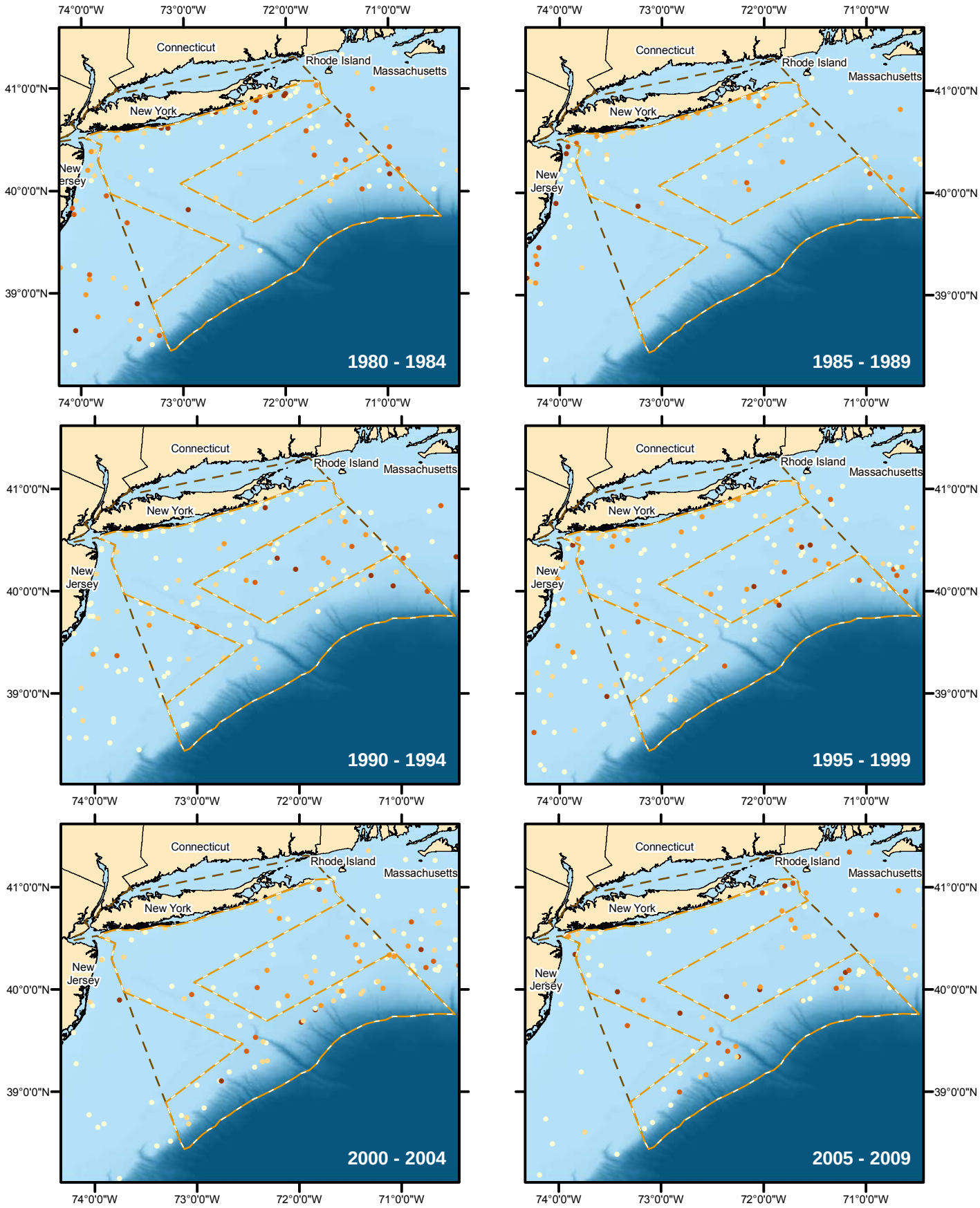

American Shad Species Abundance

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Low (1)
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NY's Phase I CMP Amendment Boundary
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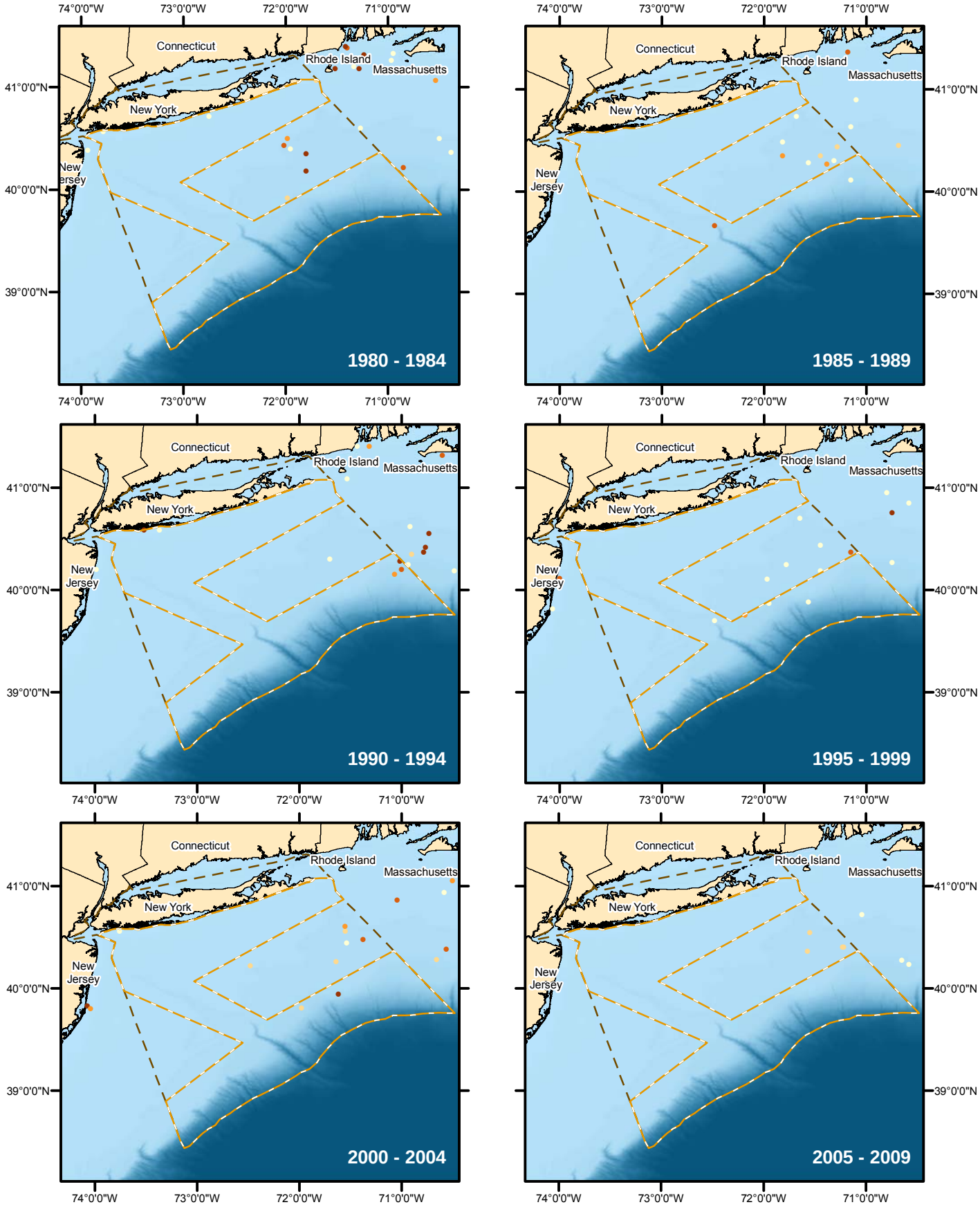
NEW YORK STATE DOS DEPARTMENT OF STATE



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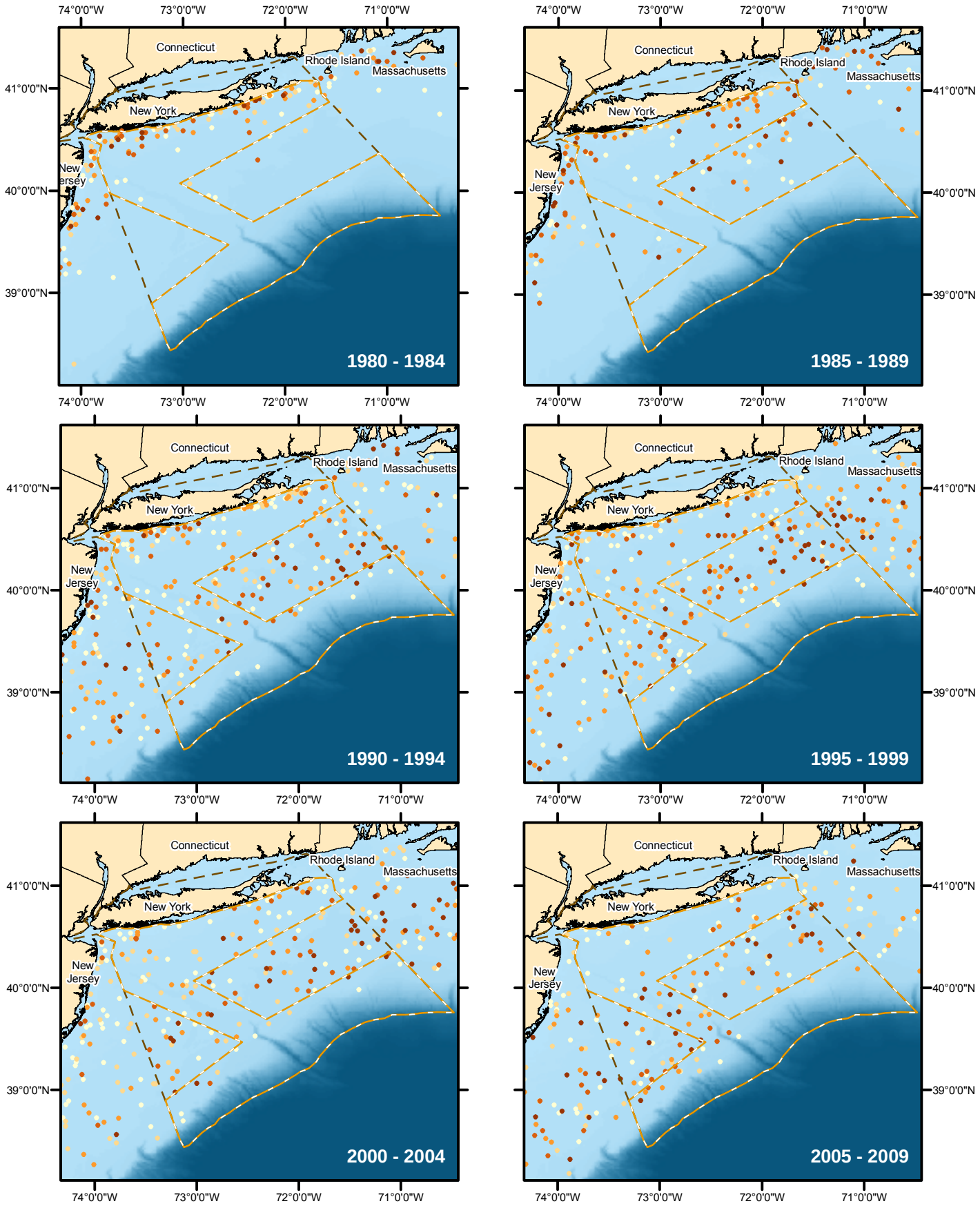


Atlantic Herring Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (15)

High (73+)

NY's Phase I CMP Amendment Boundary

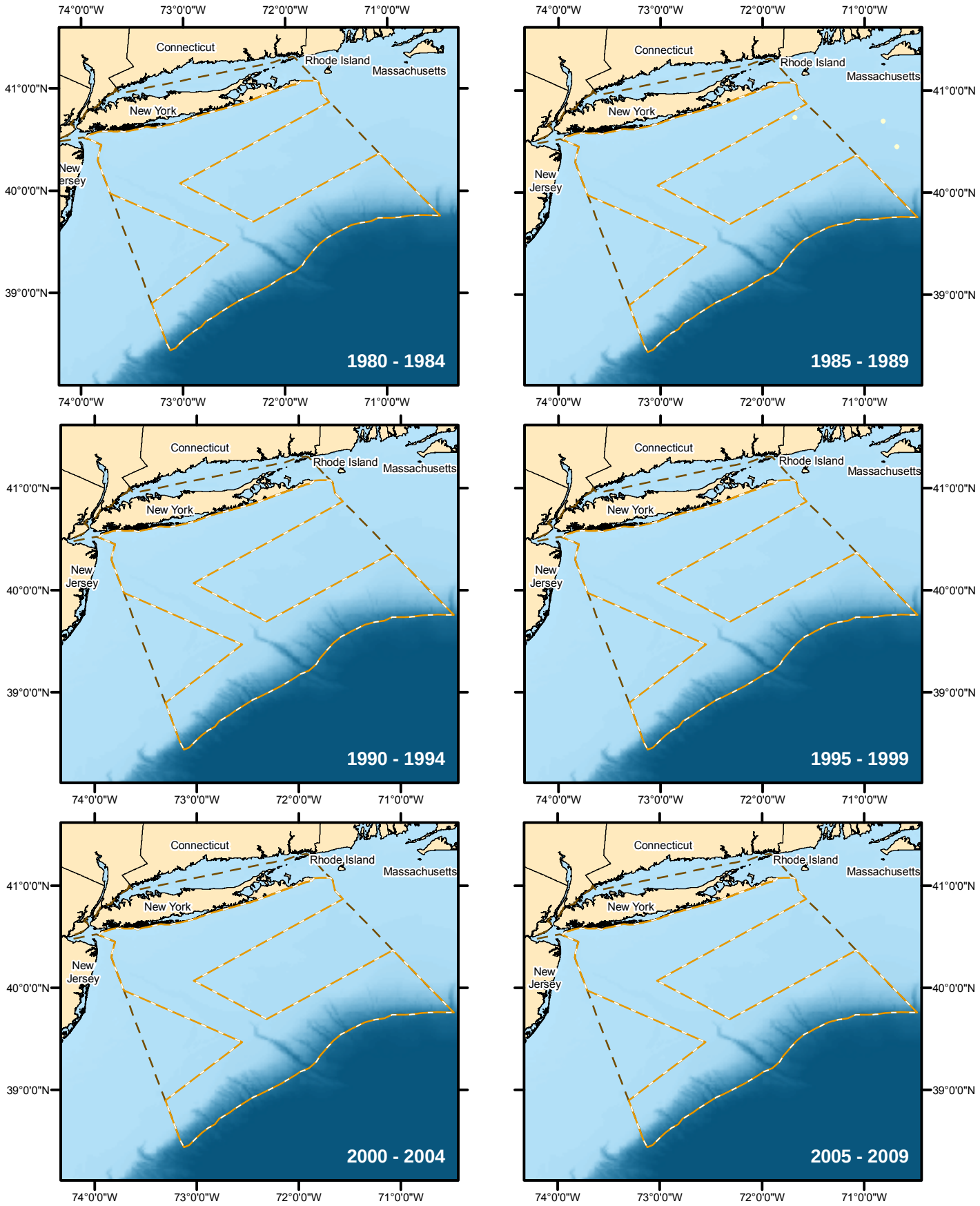
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Atlantic Herring Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (15)

High (73+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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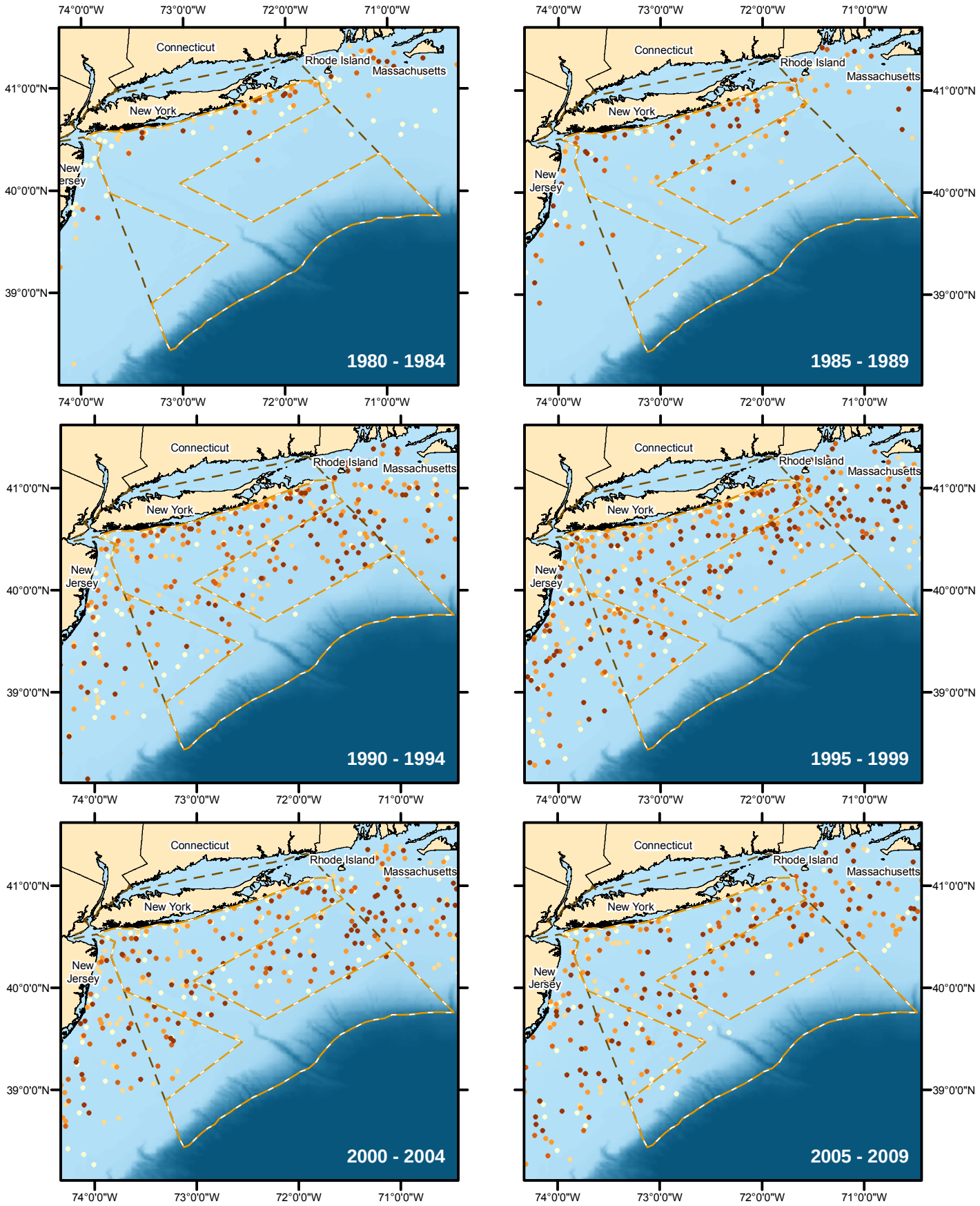

Atlantic Herring Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

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High (73+)

NY's Phase I CMP Amendment Boundary

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Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
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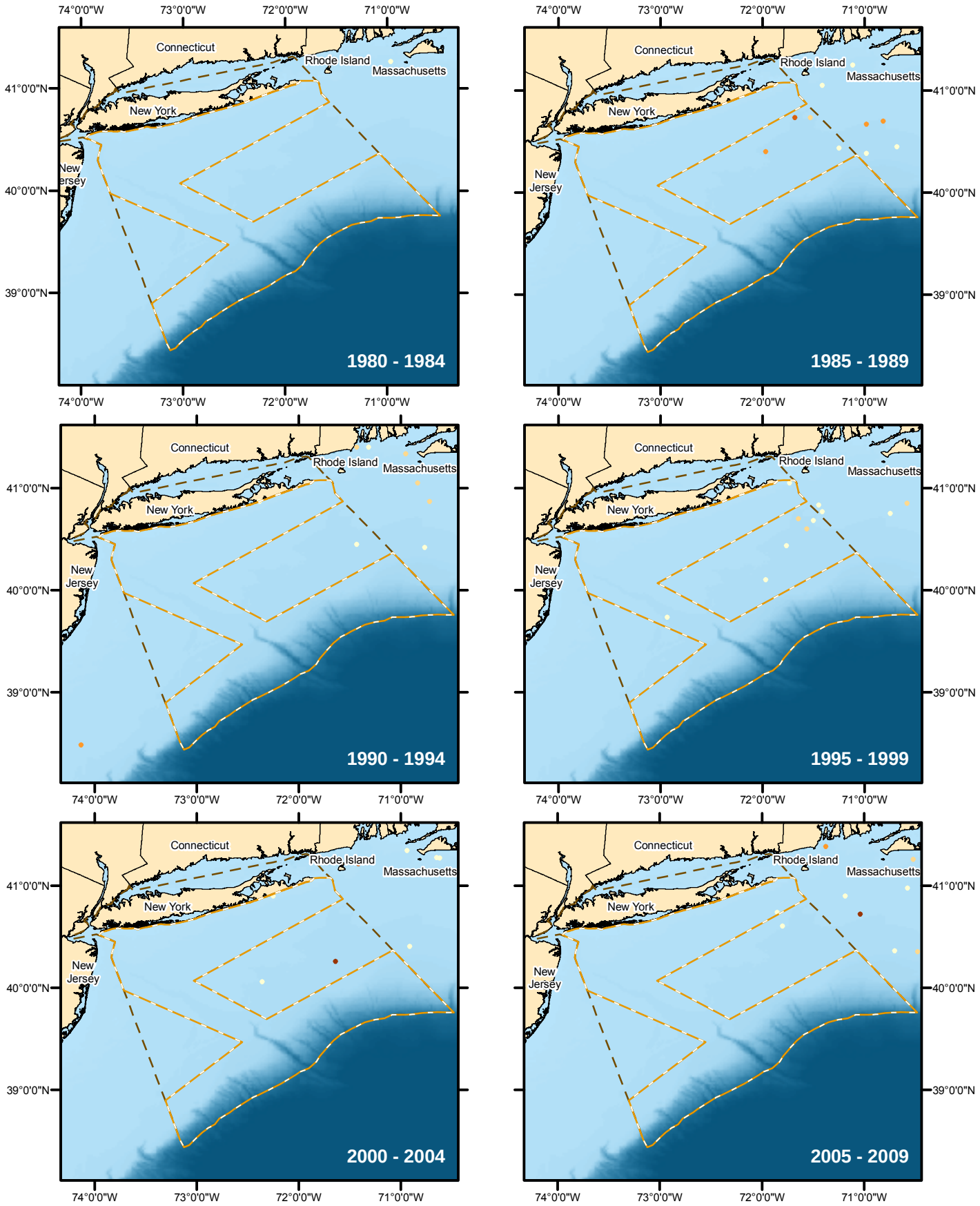

Atlantic Herring Species Abundance

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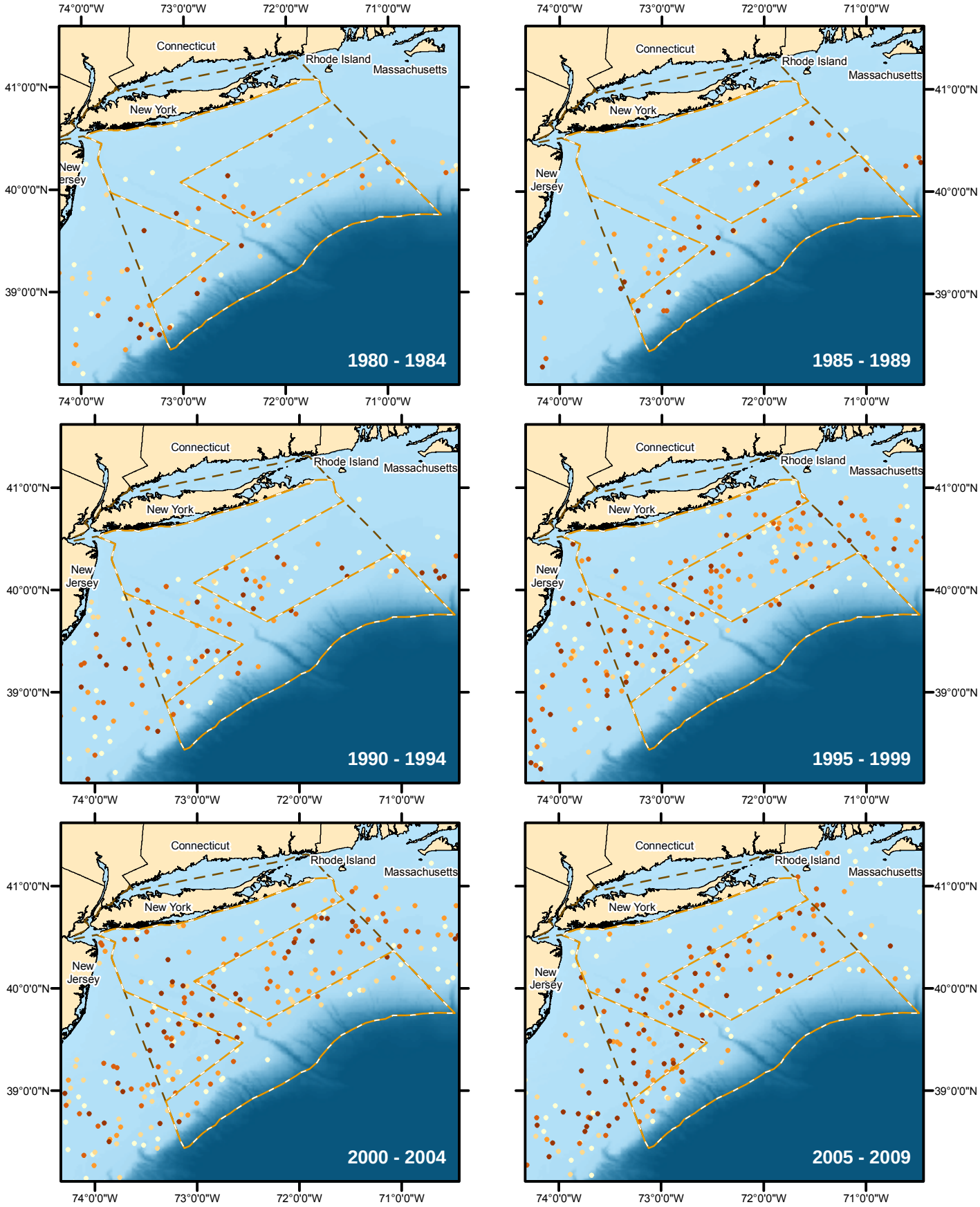


Atlantic Mackerel Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (9)

High (80+)

NY's Phase I CMP Amendment Boundary

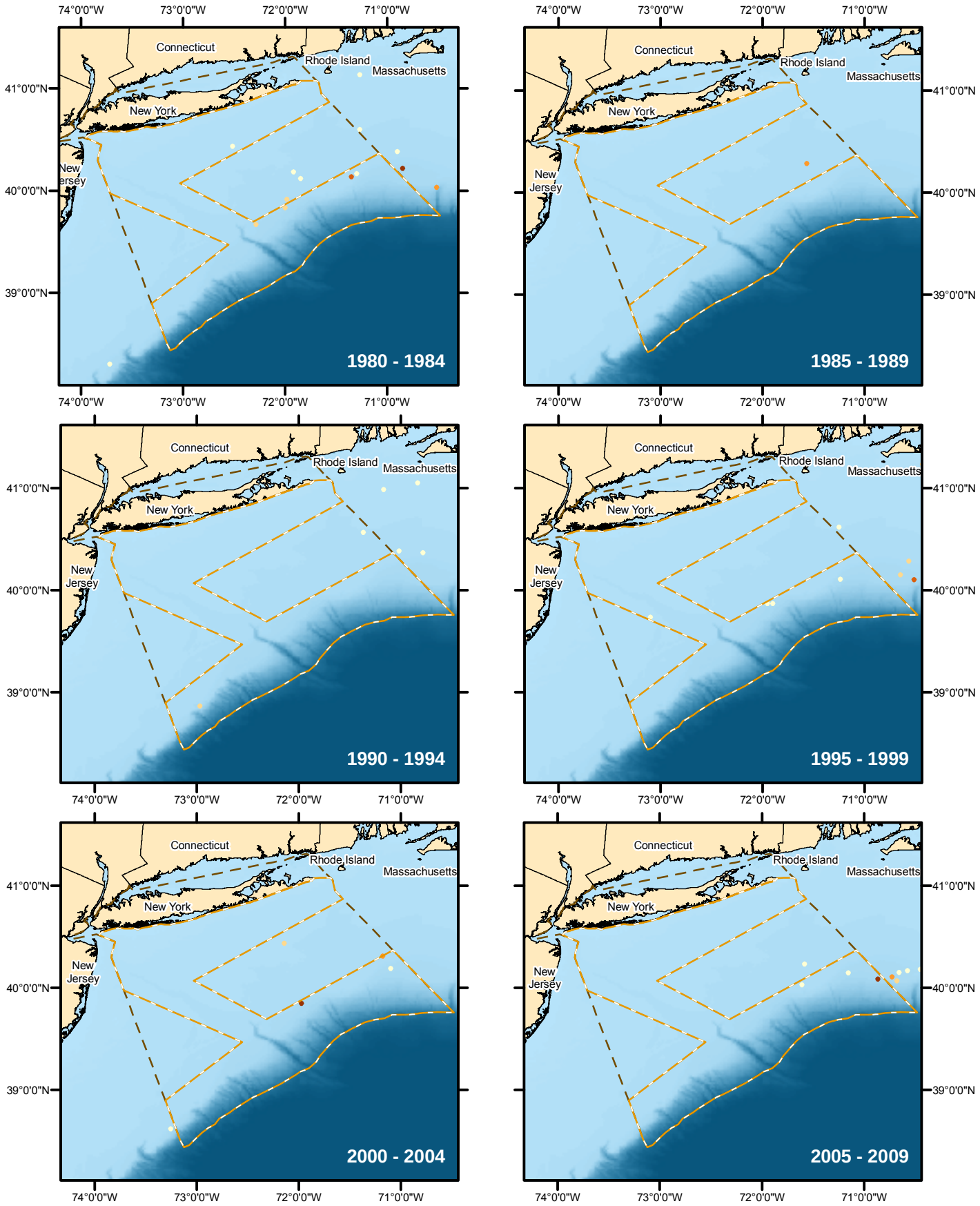
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Atlantic Mackerel Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (9)

High (80+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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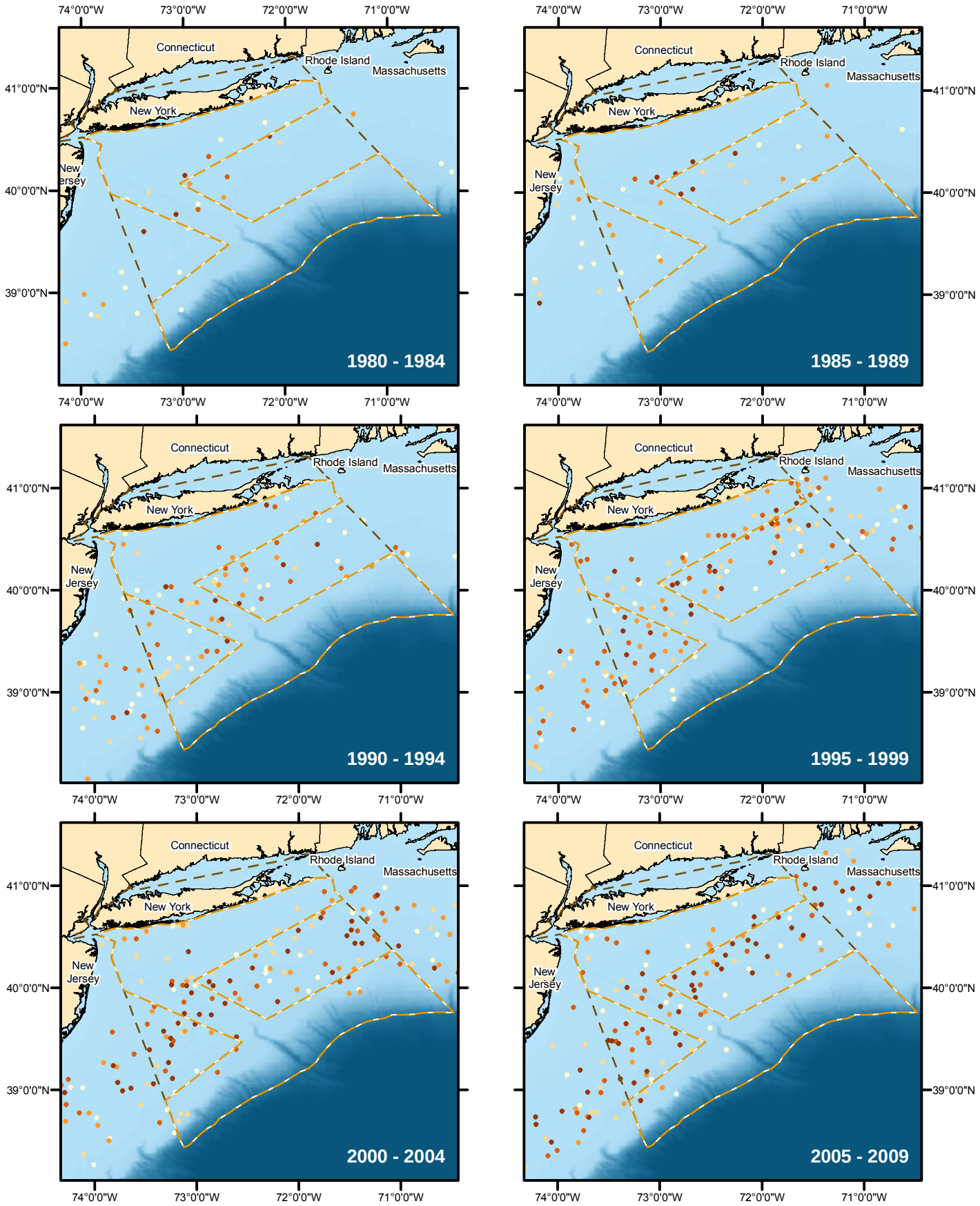

Atlantic Mackerel Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (9)

High (80+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

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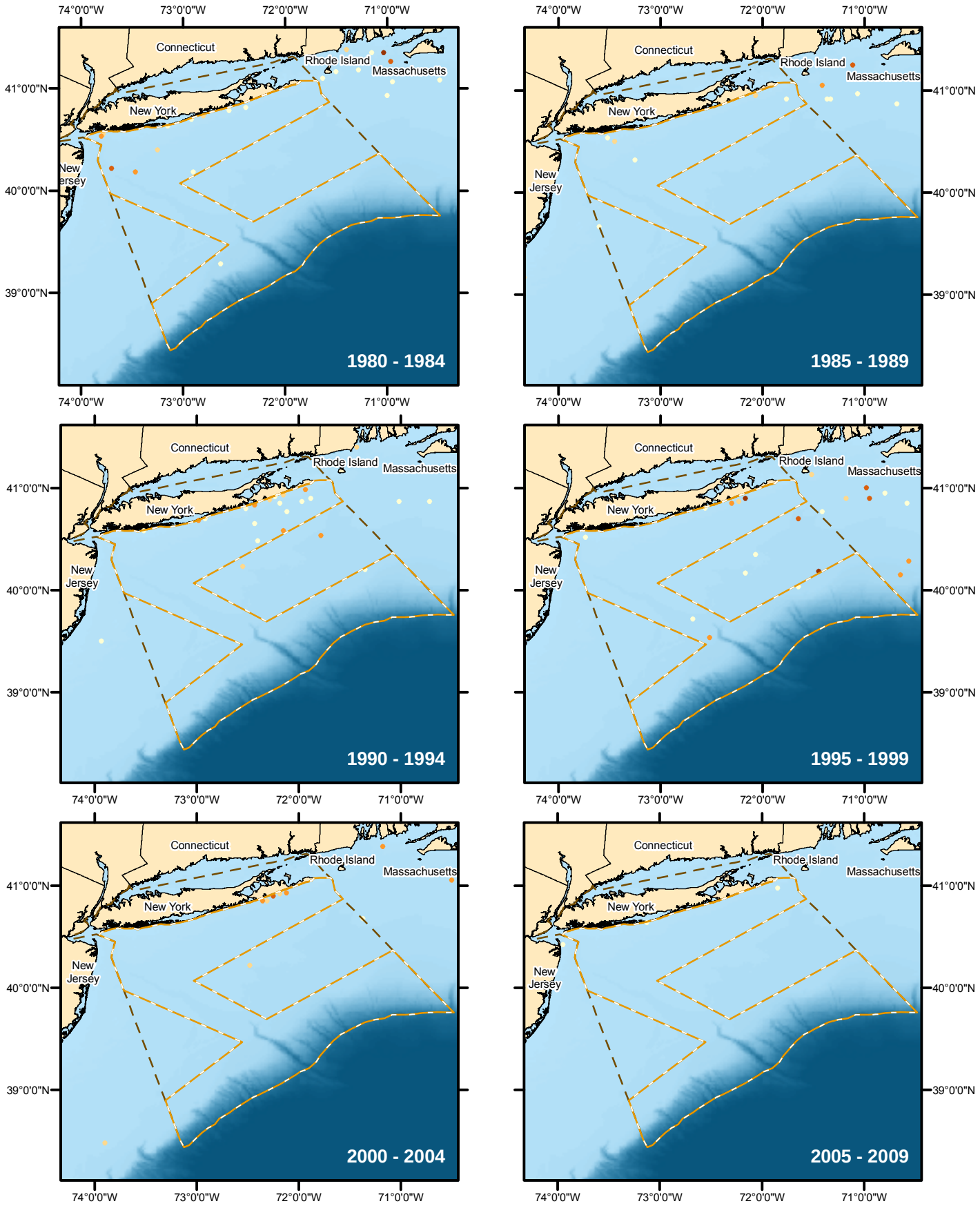

Atlantic Mackerel Species Abundance

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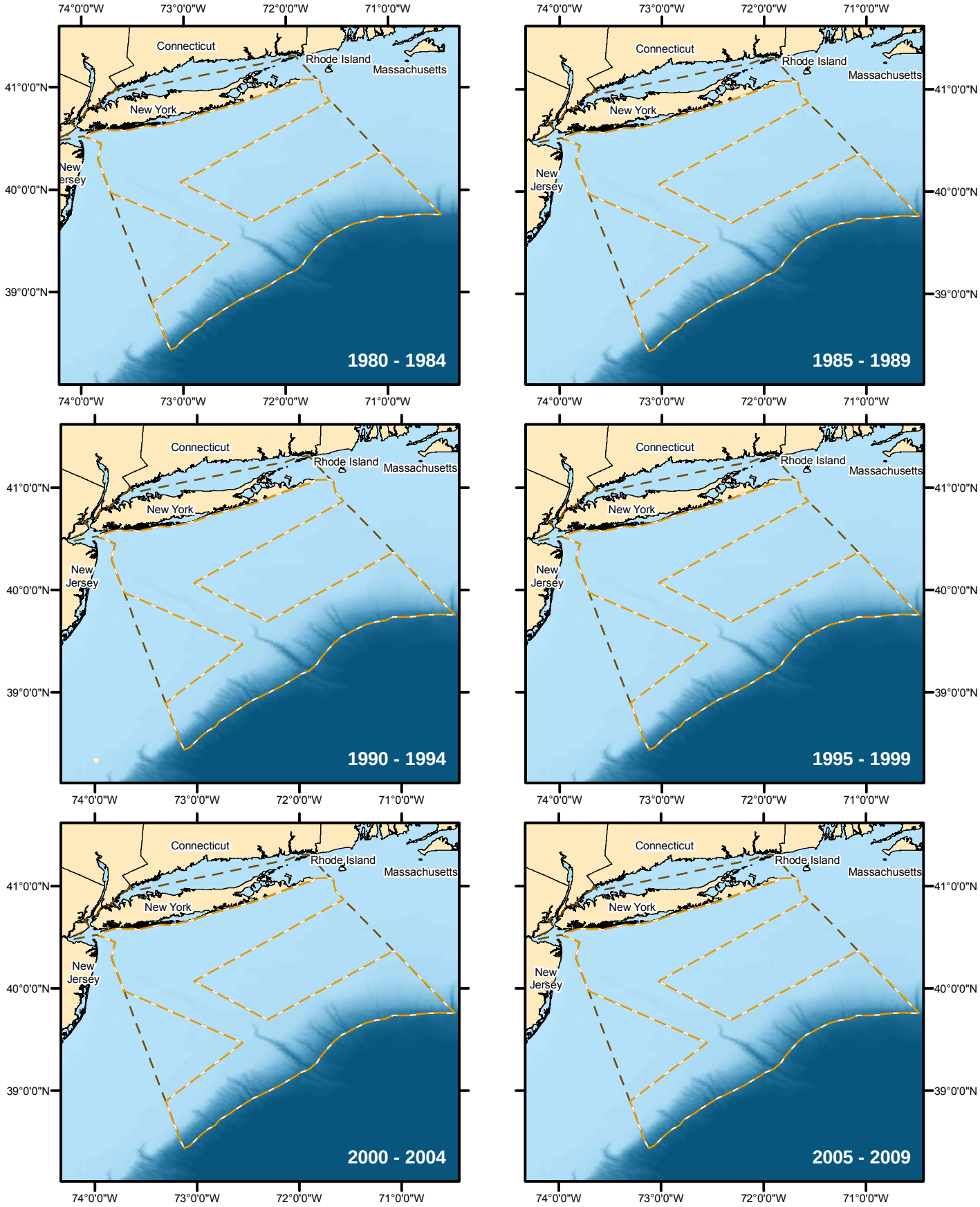


Atlantic Sturgeon Species Abundance

Spring, Adult 1980 - 2009

Low (1)

High (3+)

NY's Phase I CMP Amendment Boundary

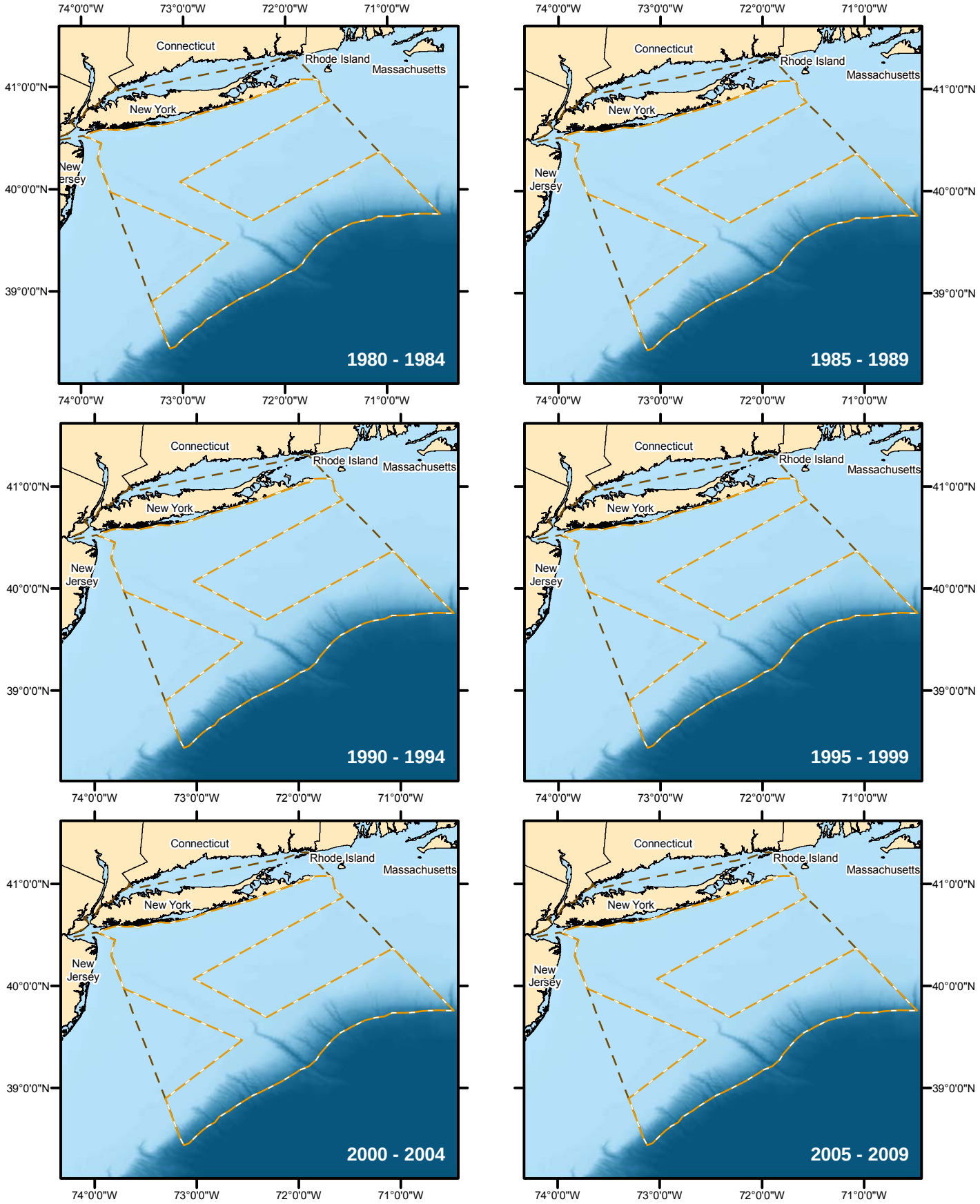
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Atlantic Sturgeon Species Abundance

Fall, Adult 1980 - 2009

Low (1)

High (3+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

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Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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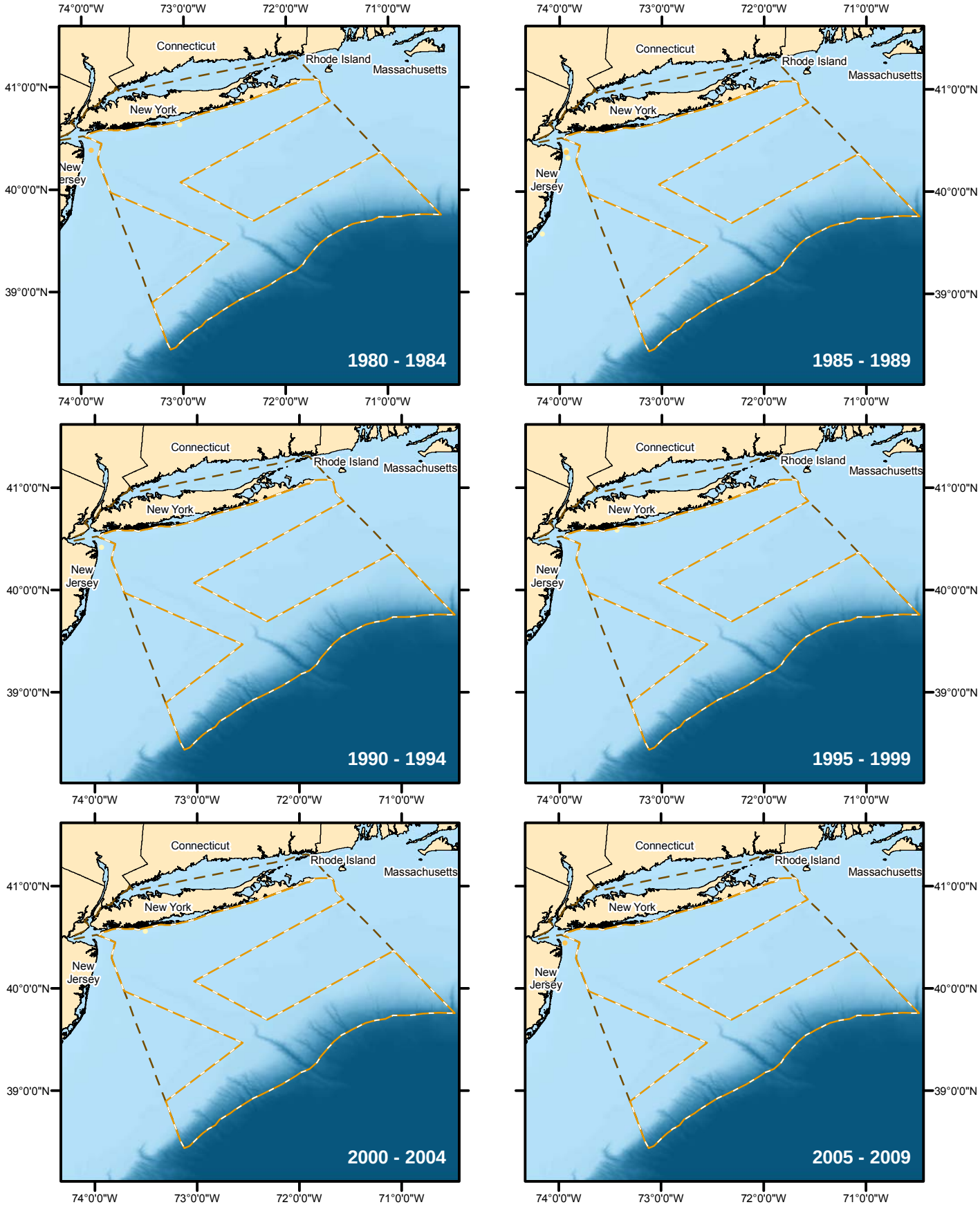

Atlantic Sturgeon Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

High (3+)

NY's Phase I CMP Amendment Boundary

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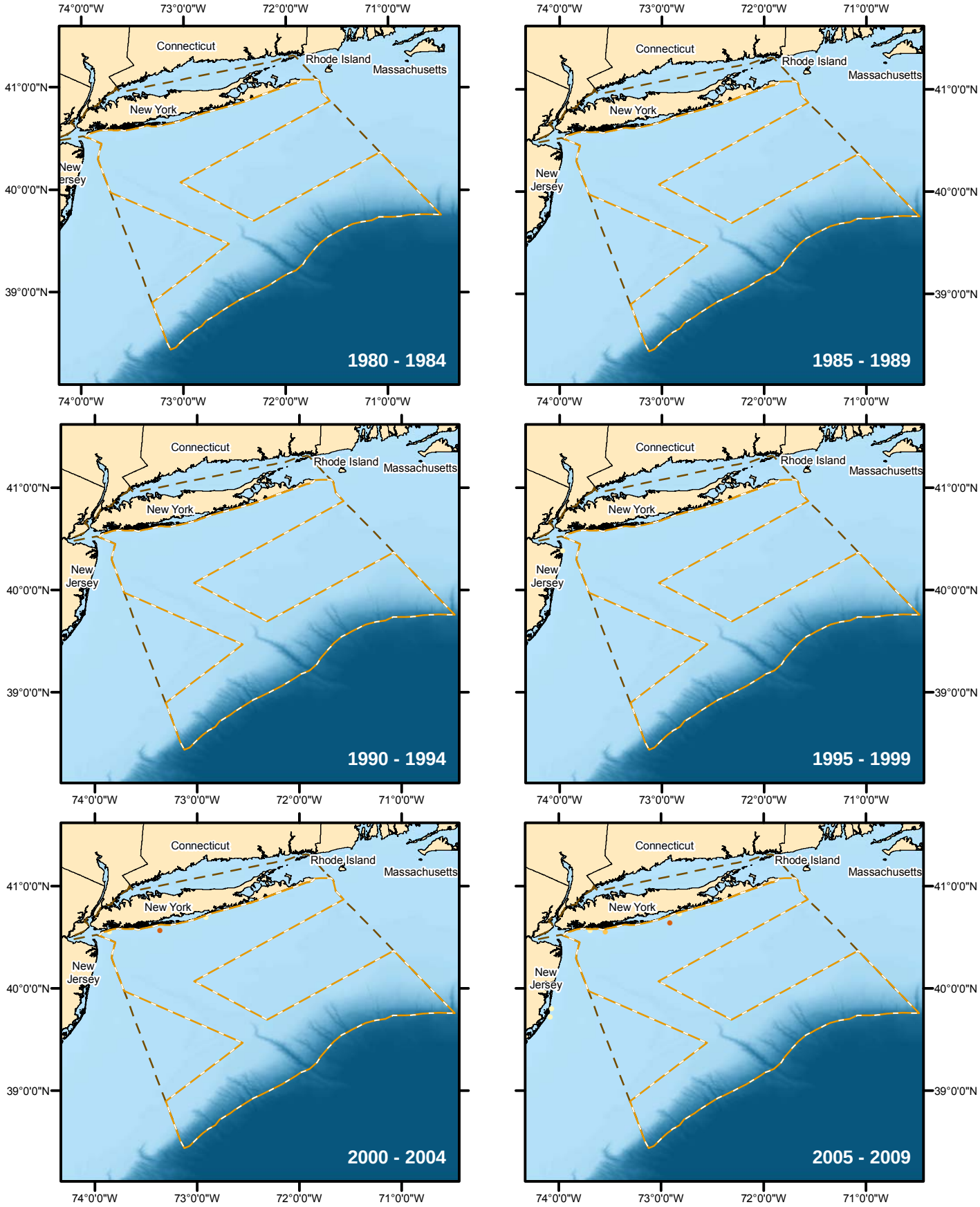

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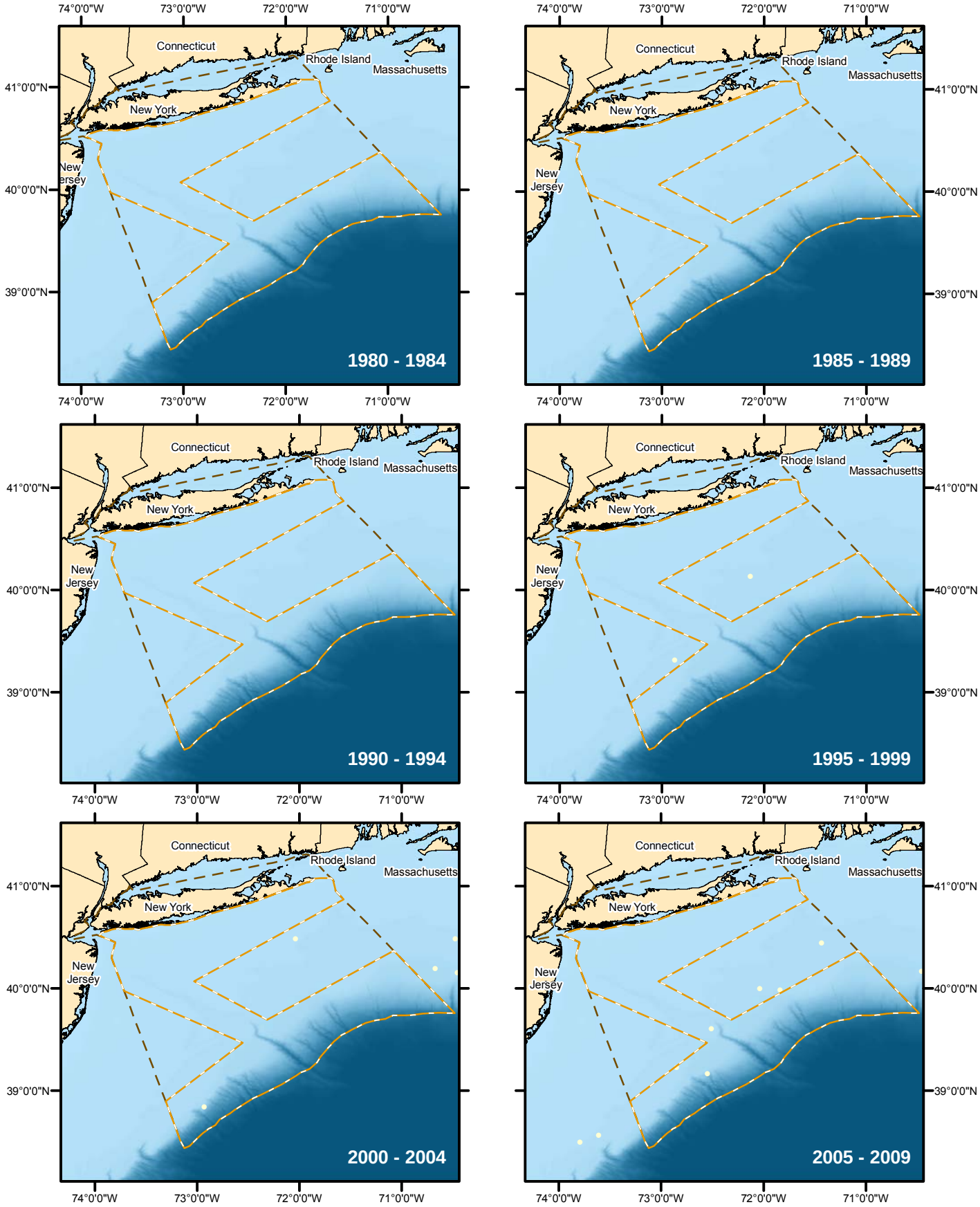

Barndoor Skate Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (3)

High (7+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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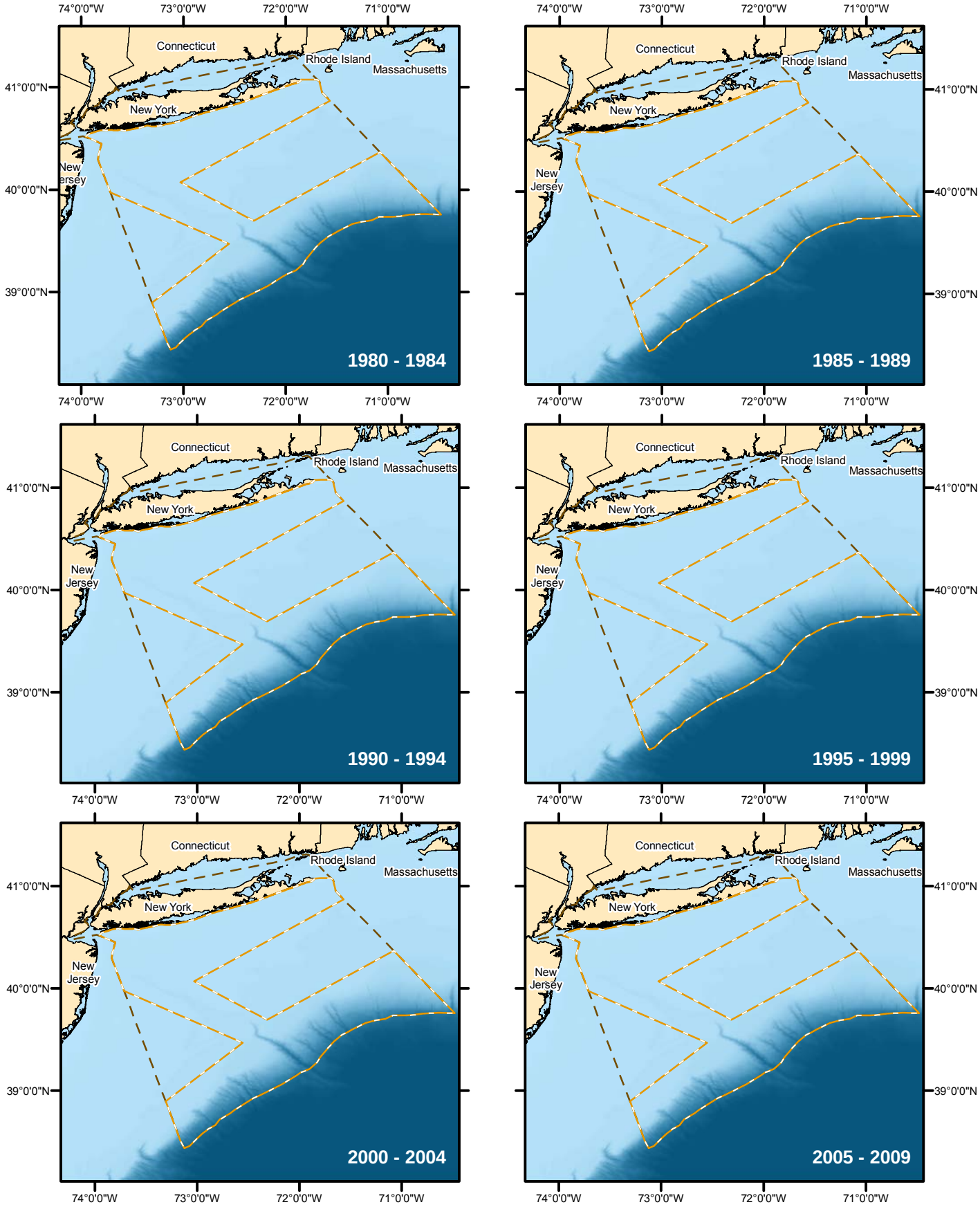

Barndoor Skate Species Abundance

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NY's Phase I CMP Amendment Boundary

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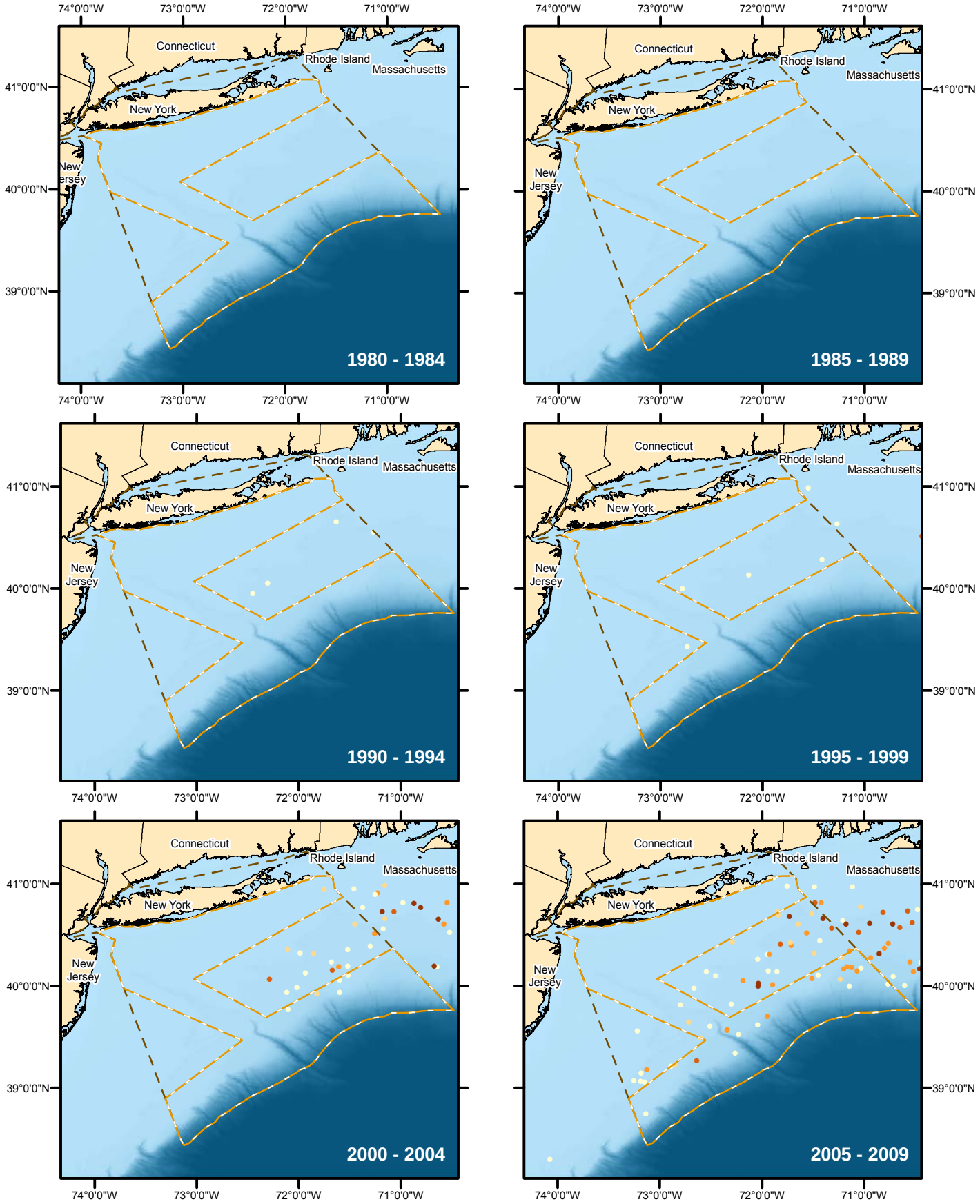

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High (7+)

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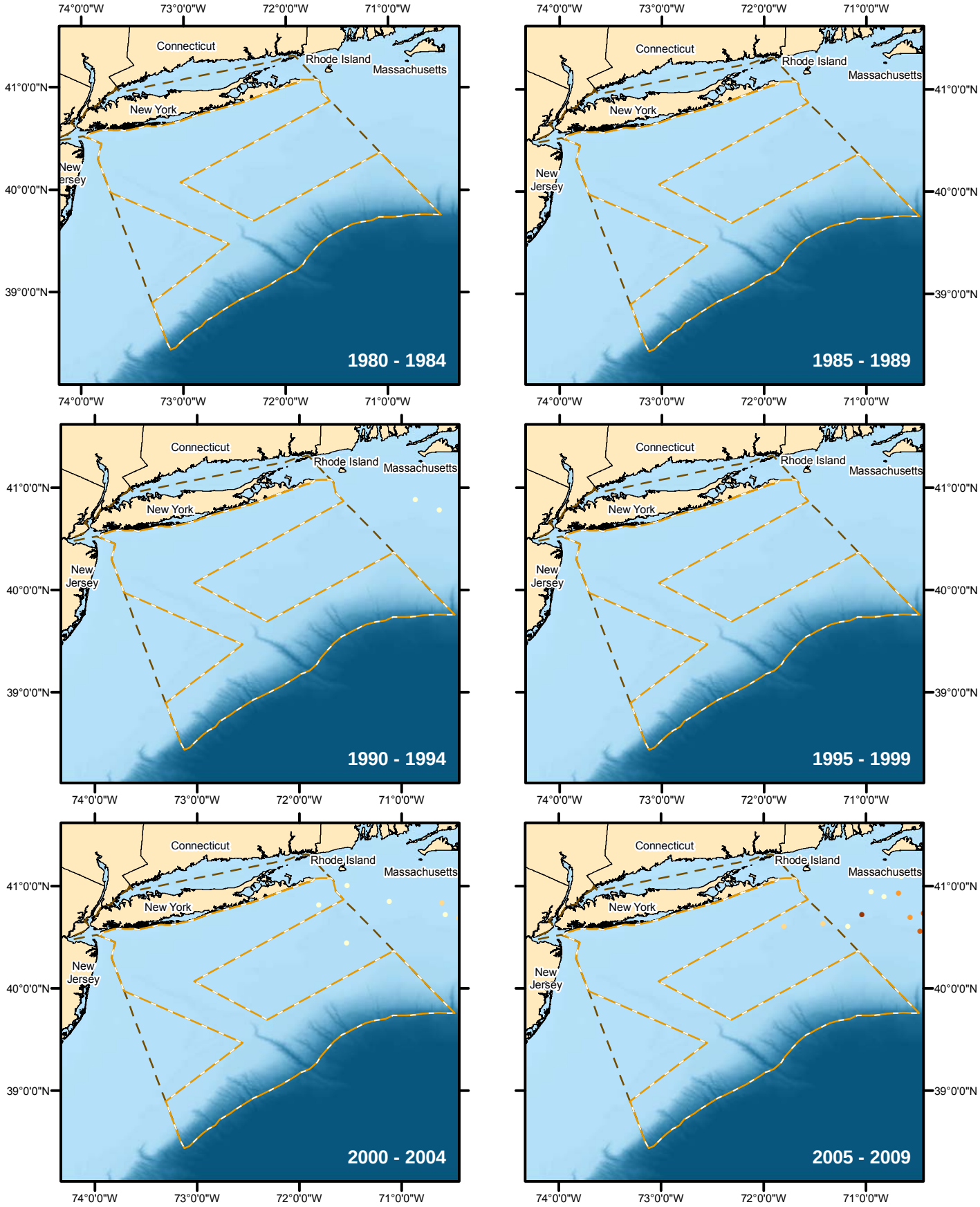

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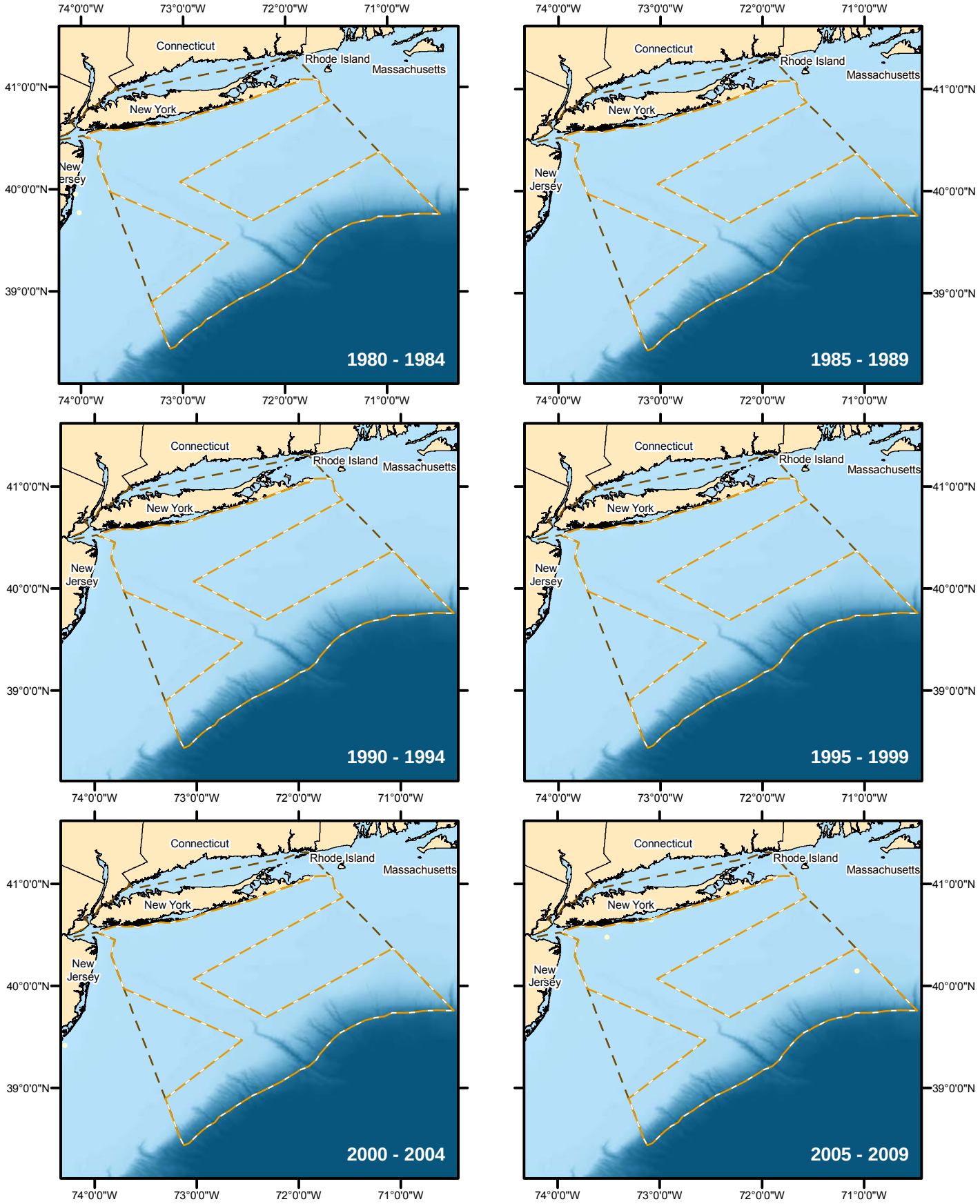


Bay Anchovy Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (1,731)

High (7,678+)

NY's Phase I CMP Amendment Boundary

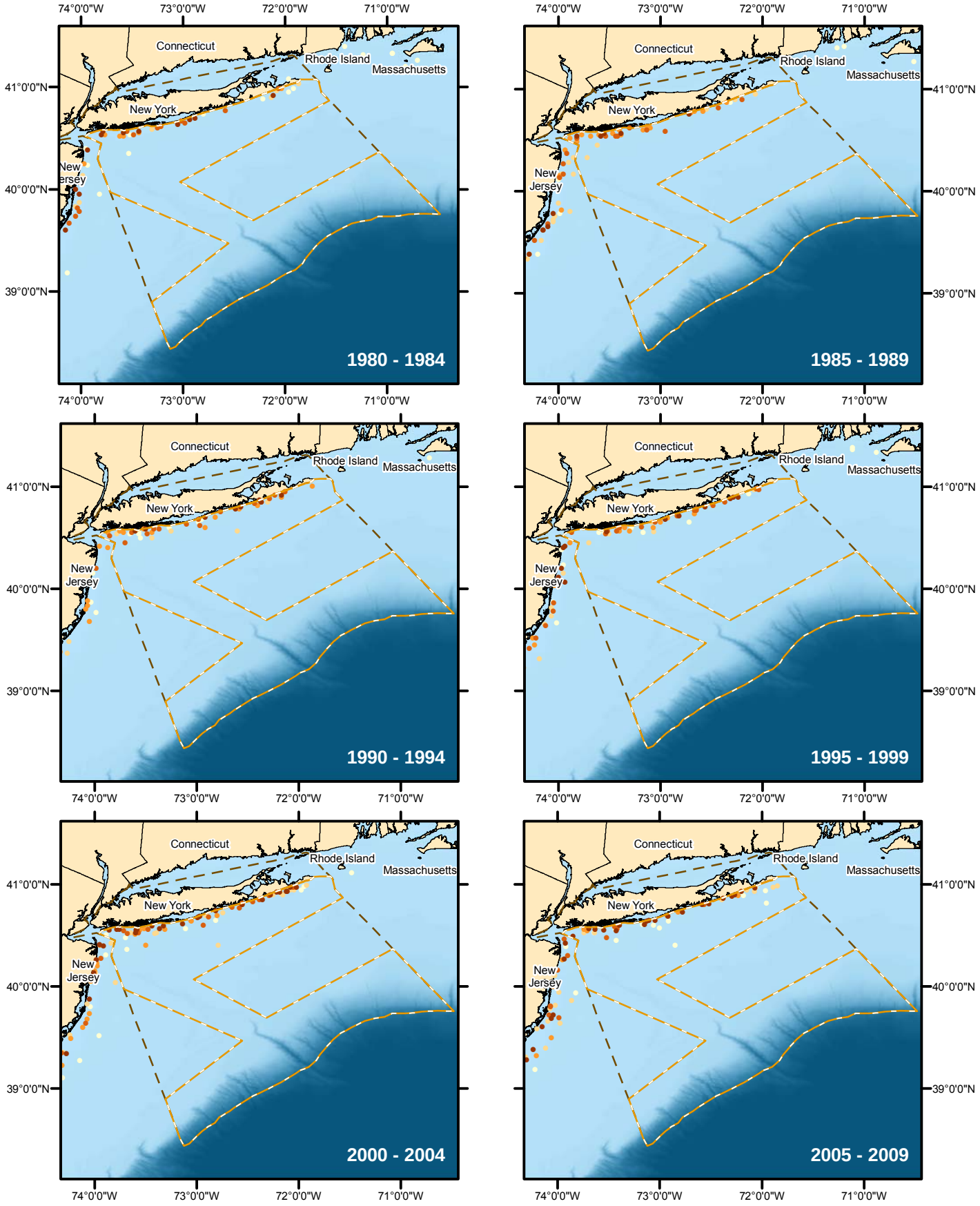
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



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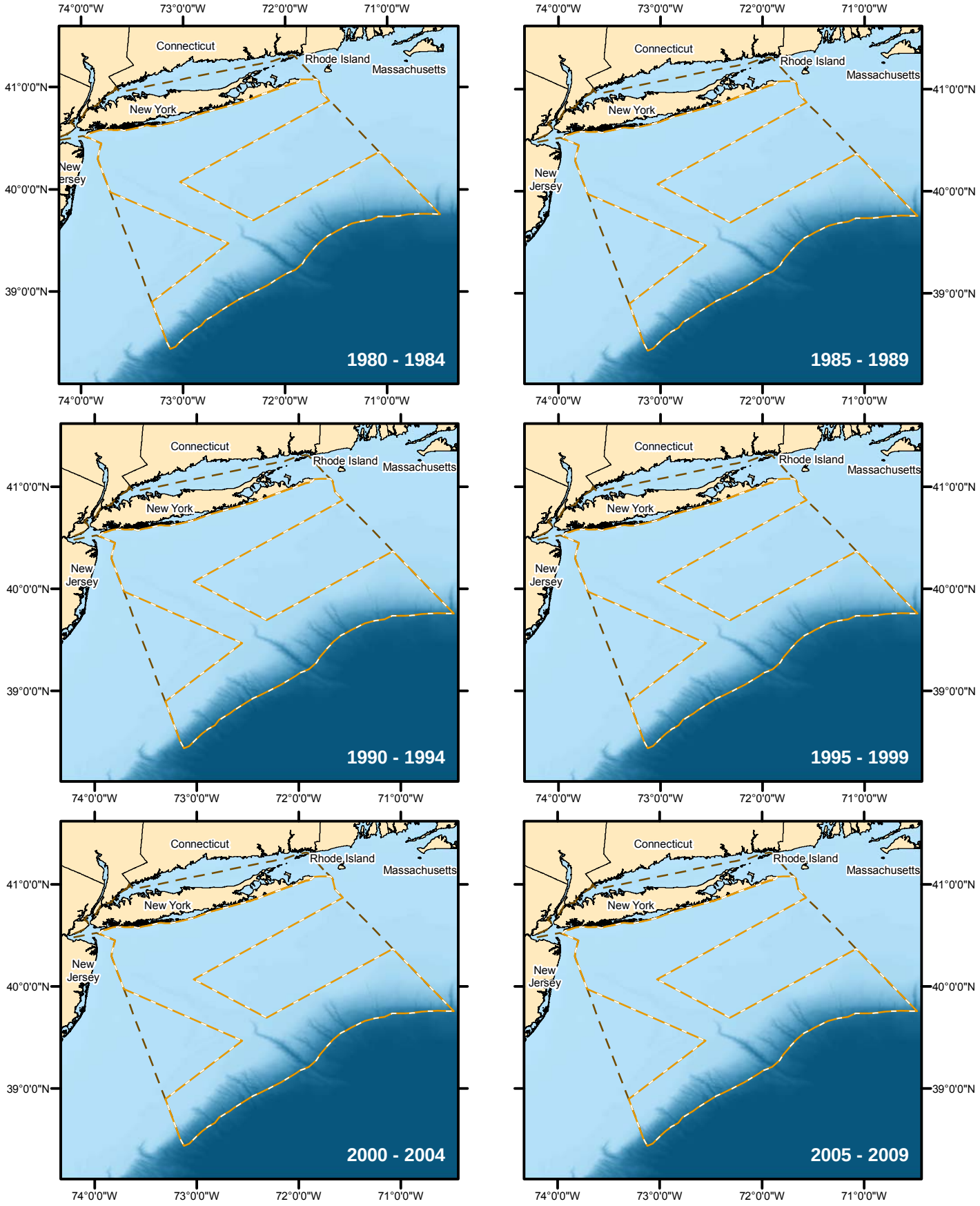

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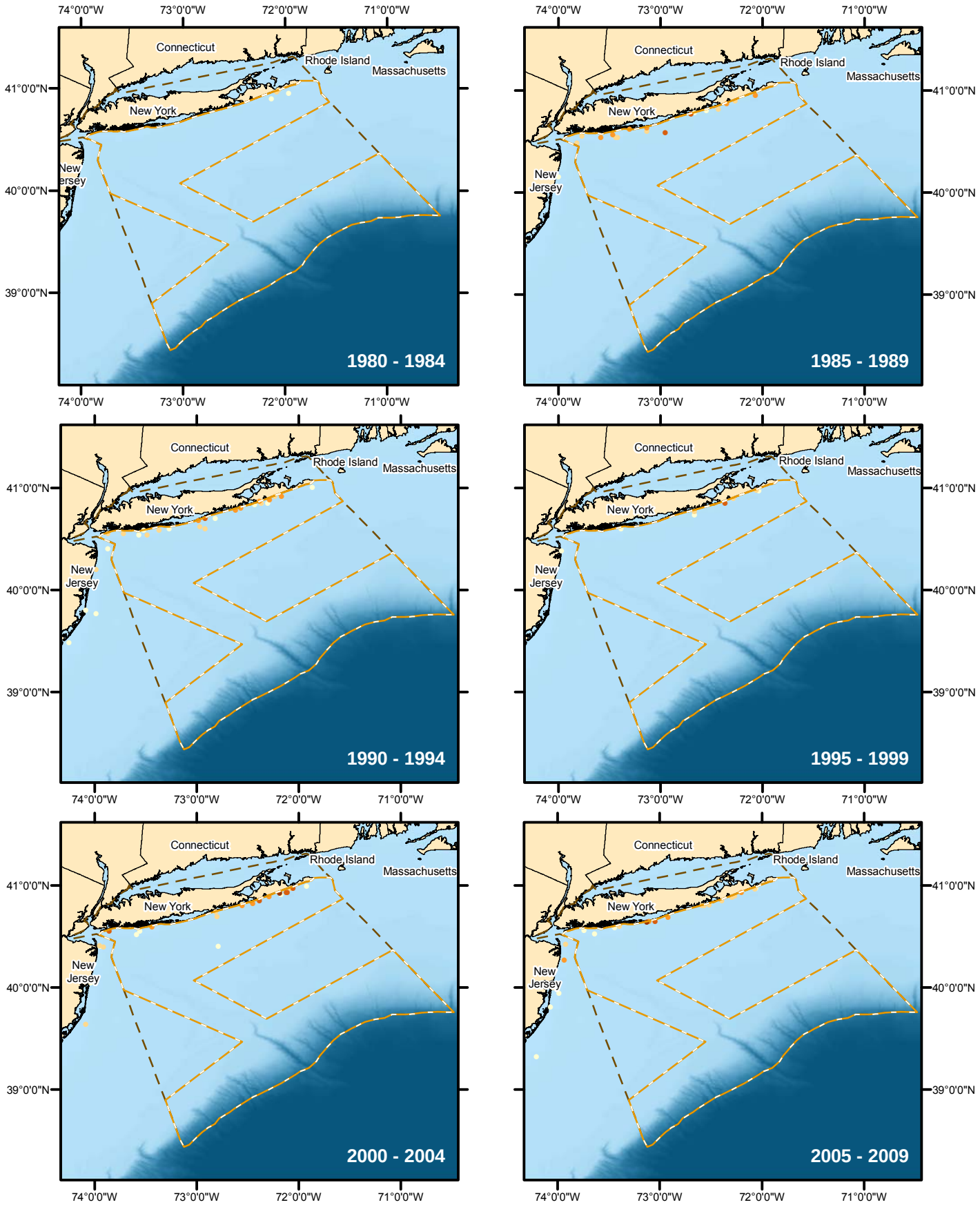
NEW YORK STATE DOS DEPARTMENT OF STATE



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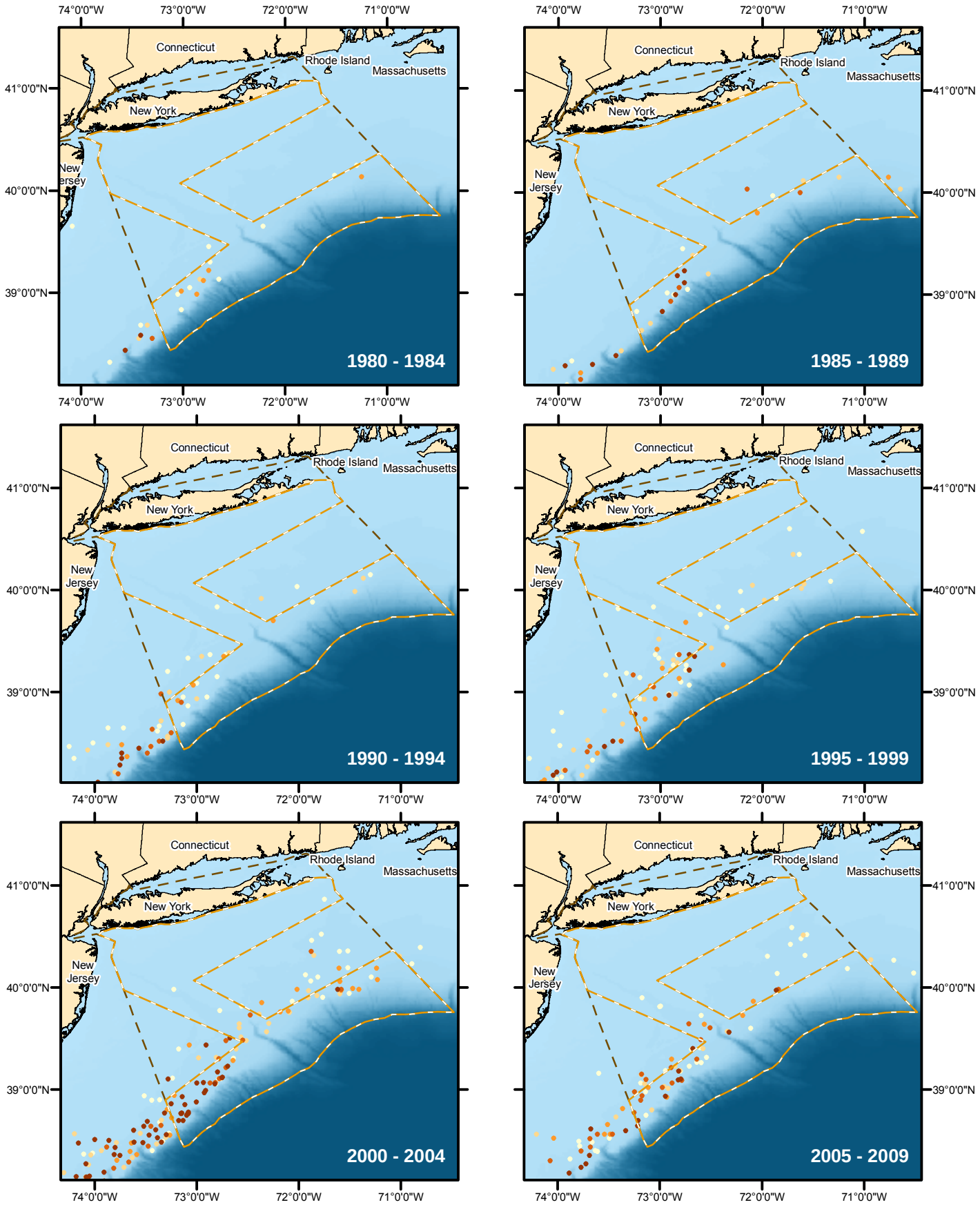


Black Sea Bass Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (5)

High (15+)

NY's Phase I CMP Amendment Boundary

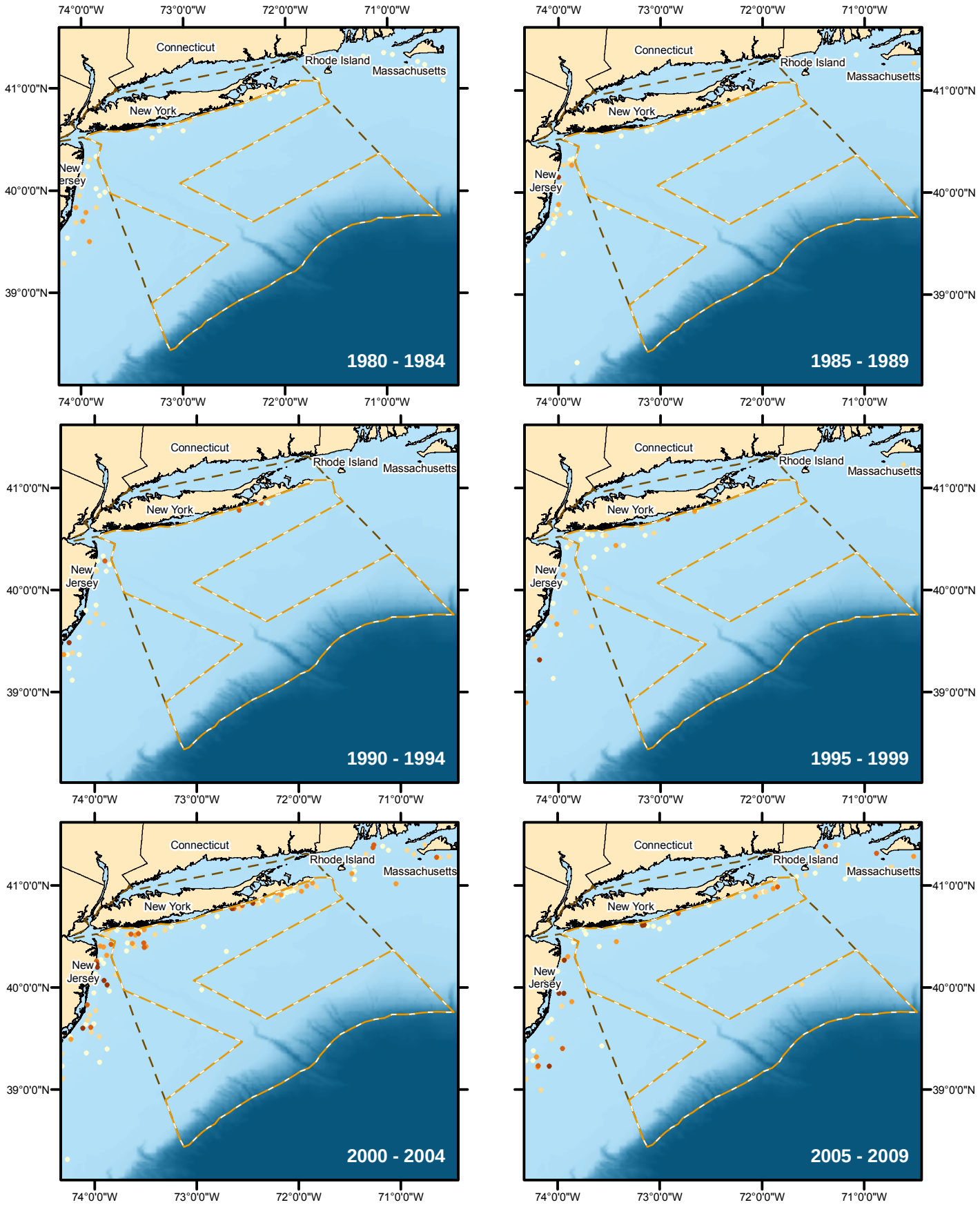
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



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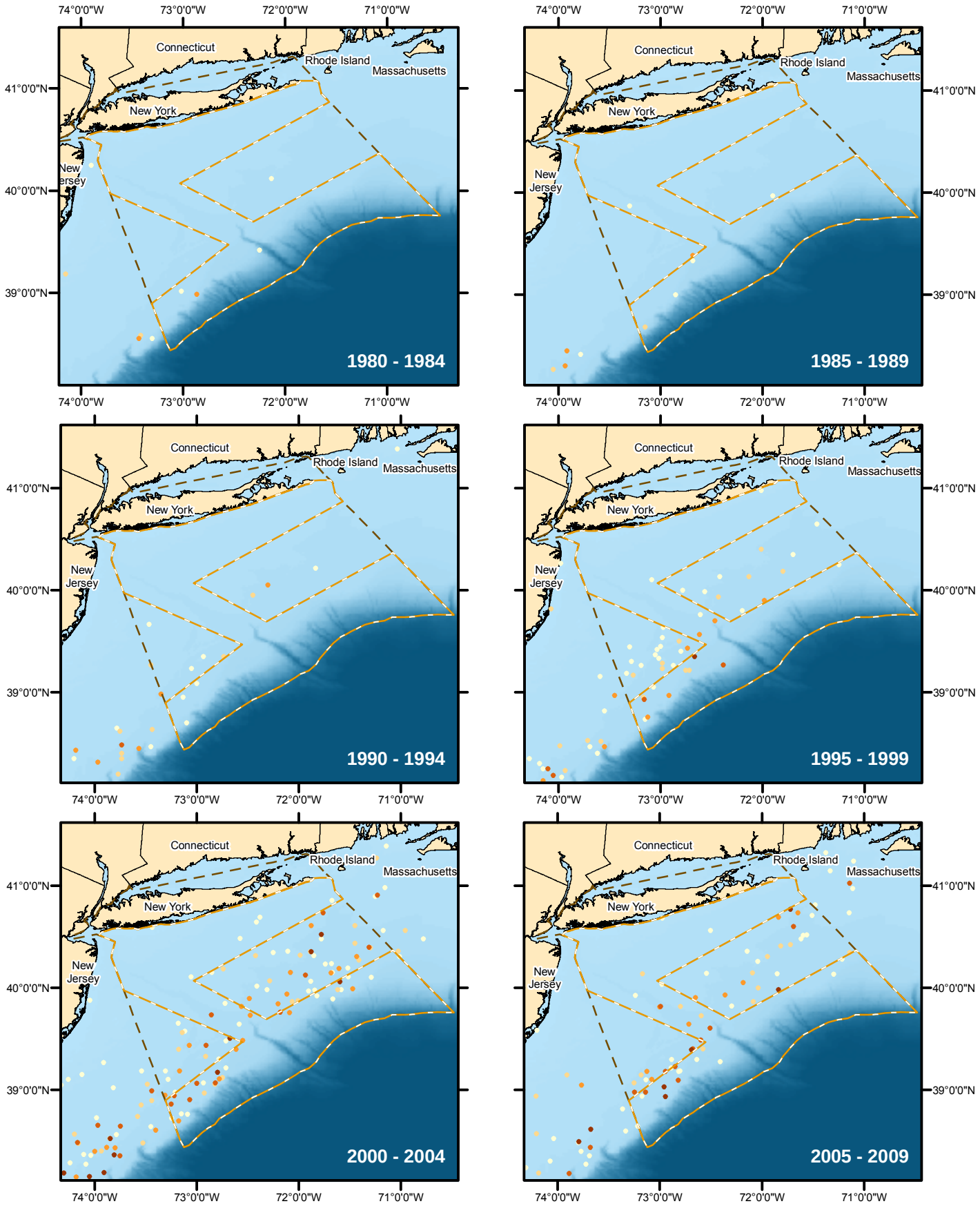

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Spring, Juvenile 1980 - 2009

Low (1)

Med (5)

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NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

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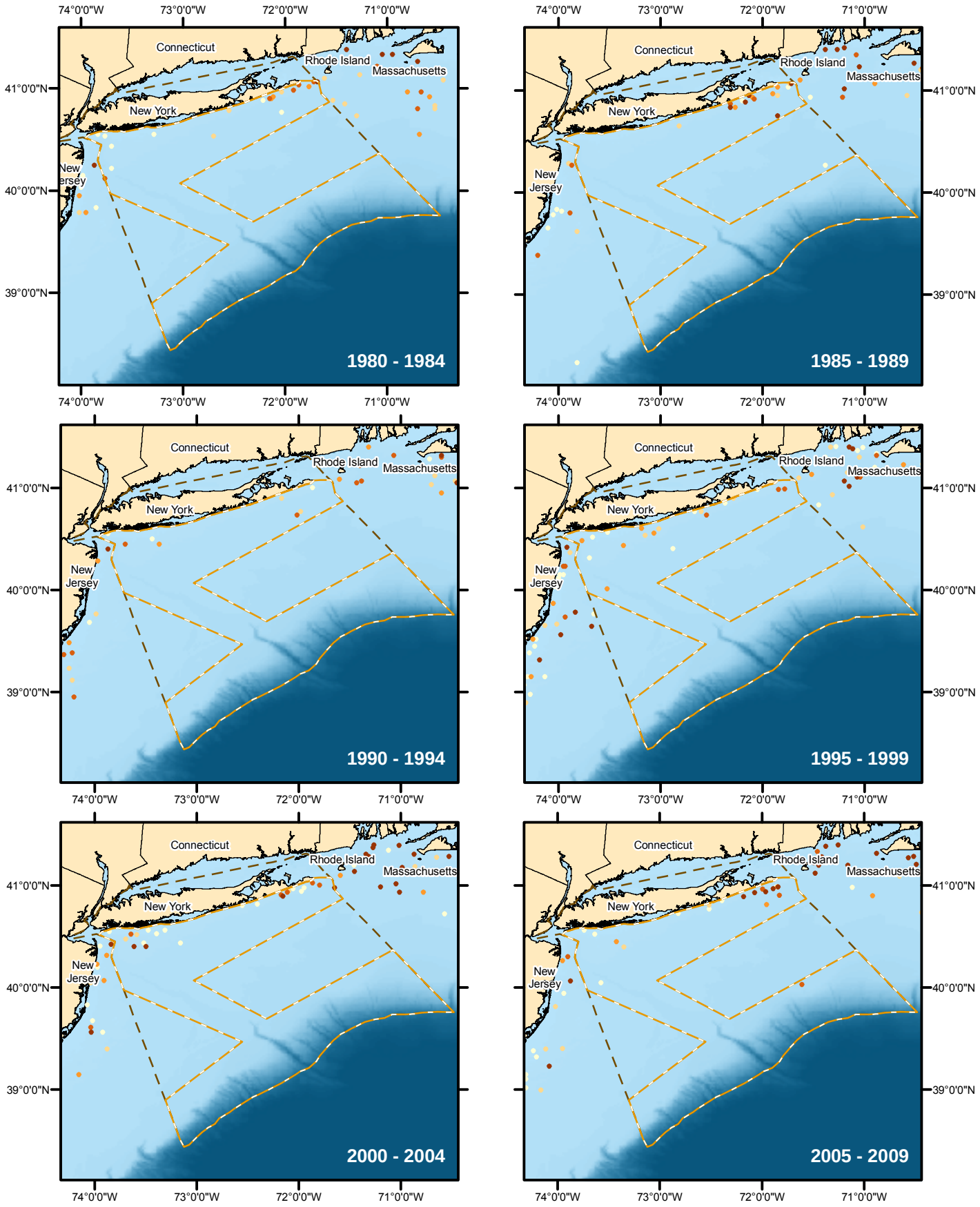

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Low (1)

Med (5)

High (15+)

NY's Phase I CMP Amendment Boundary

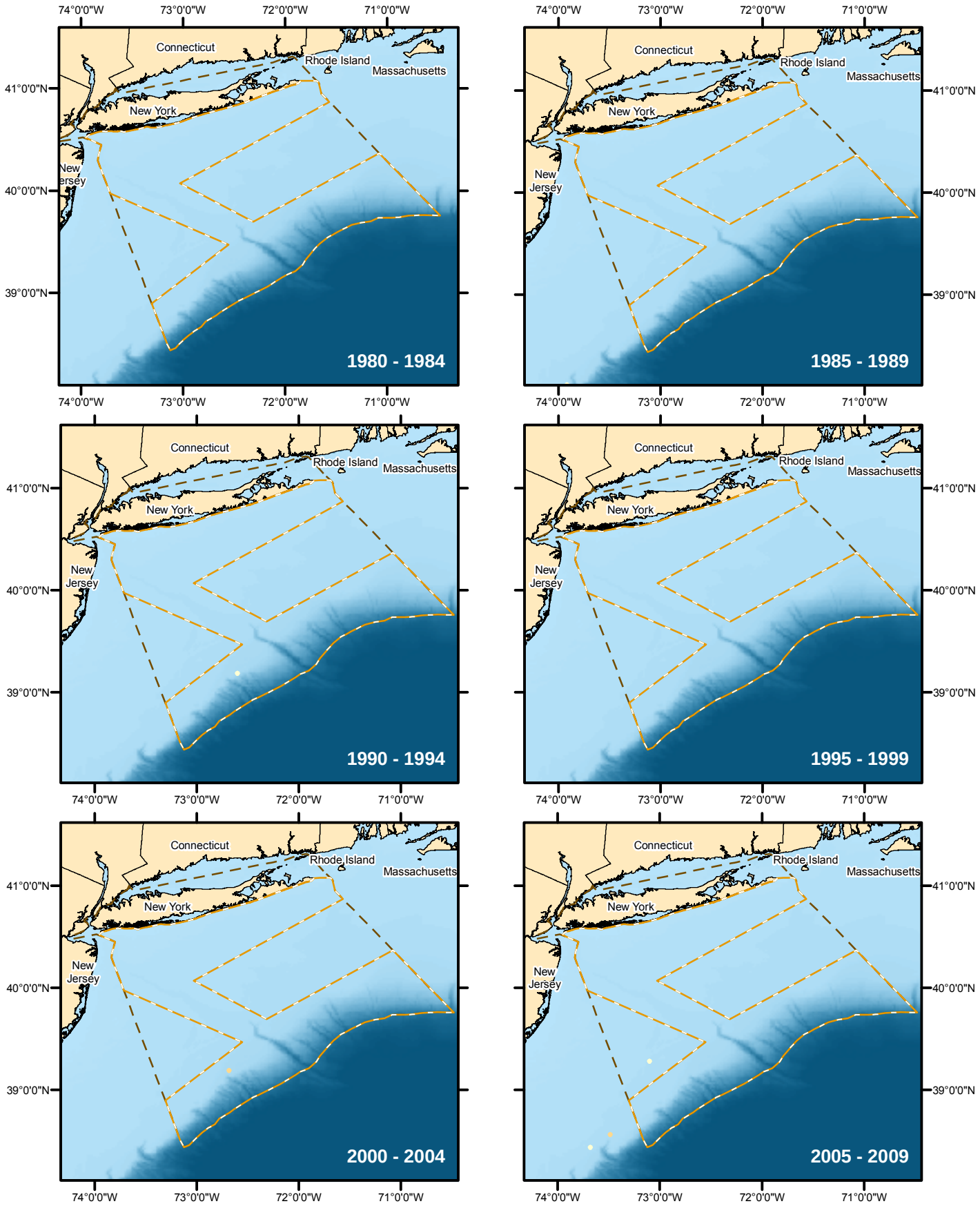
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Bluefish Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (4)

High (16+)

NY's Phase I CMP Amendment Boundary

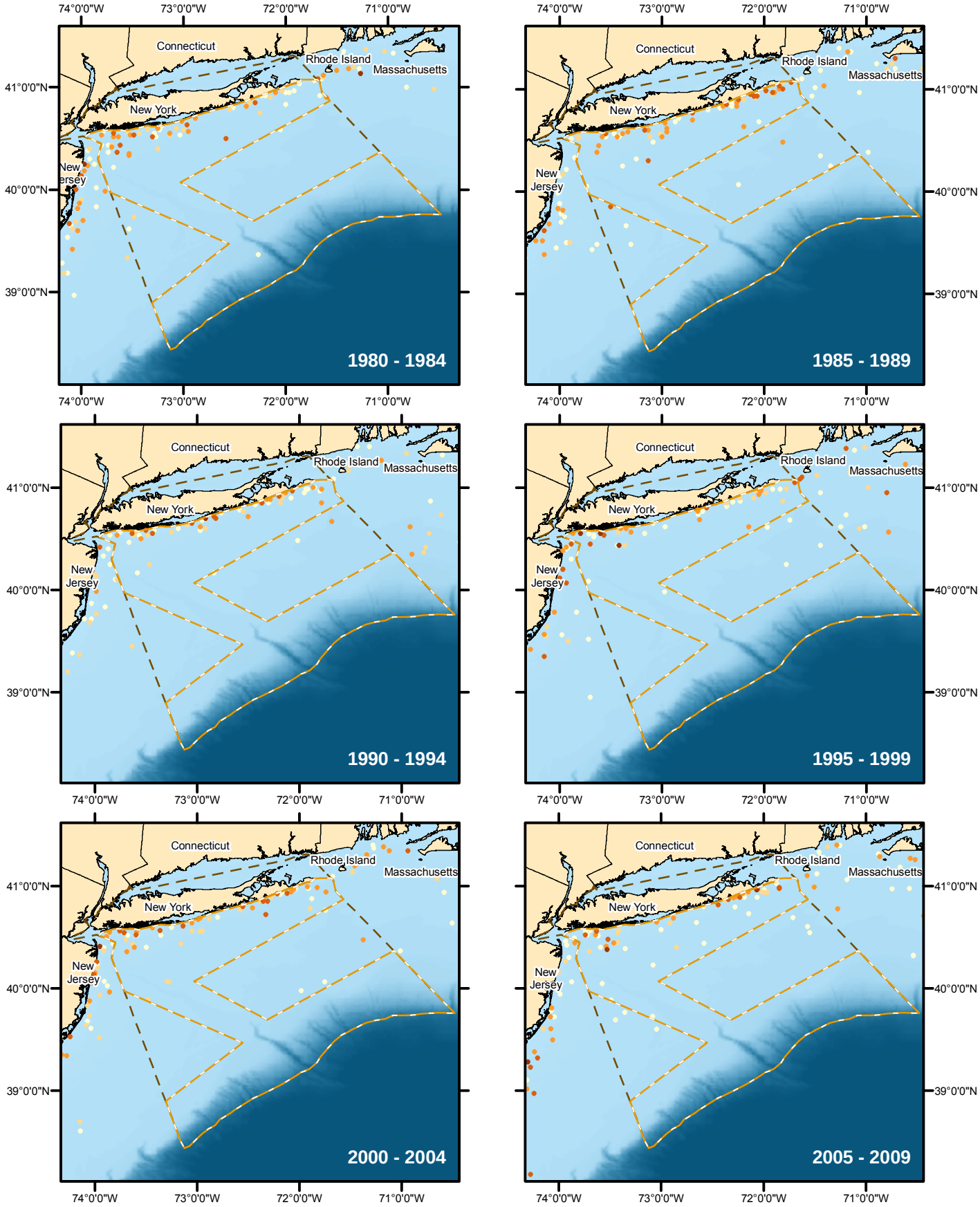
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Bluefish Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (4)

High (16+)

NY's Phase I CMP Amendment Boundary

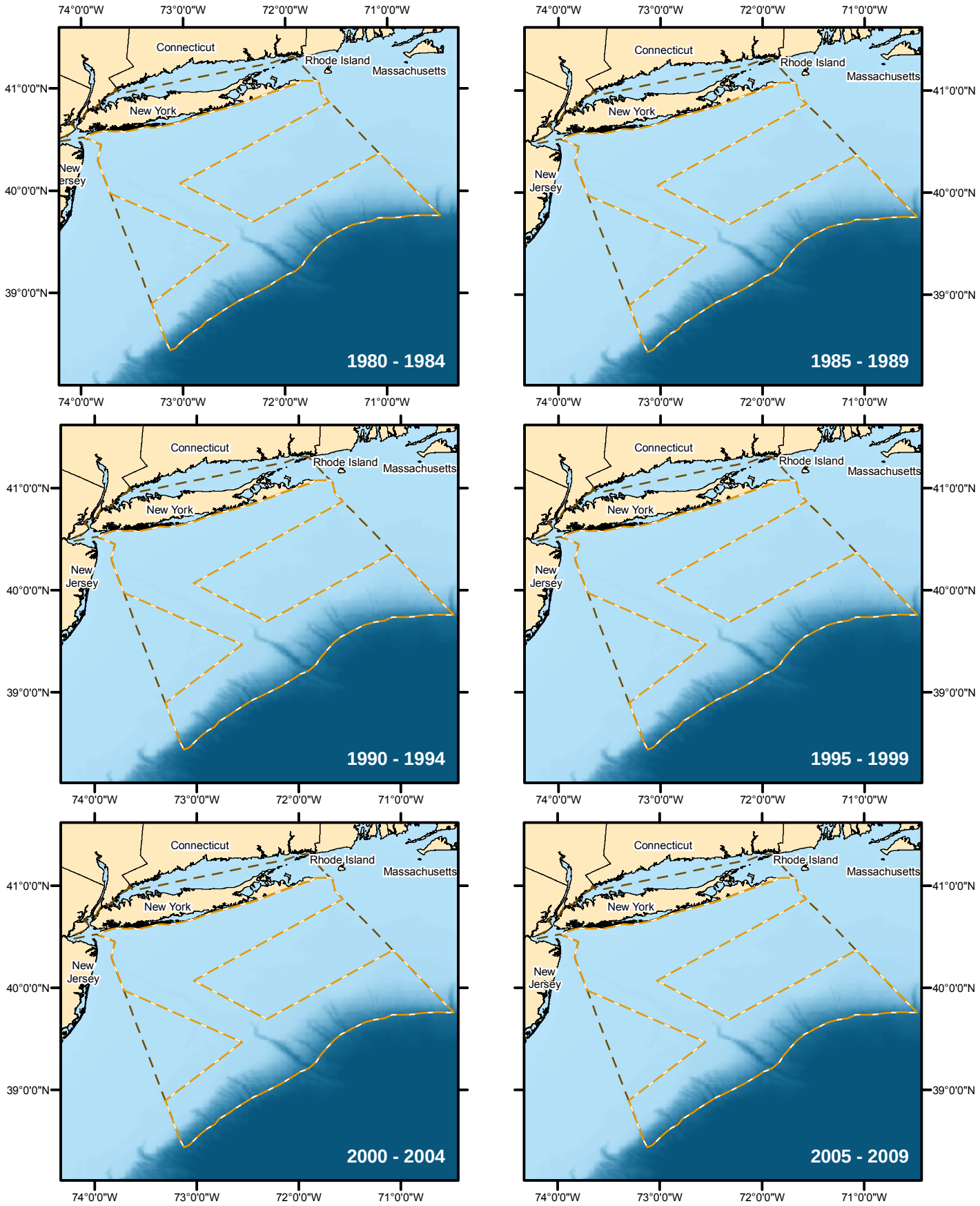
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Bluefish Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (4)

High (16+)

NY's Phase I CMP Amendment Boundary

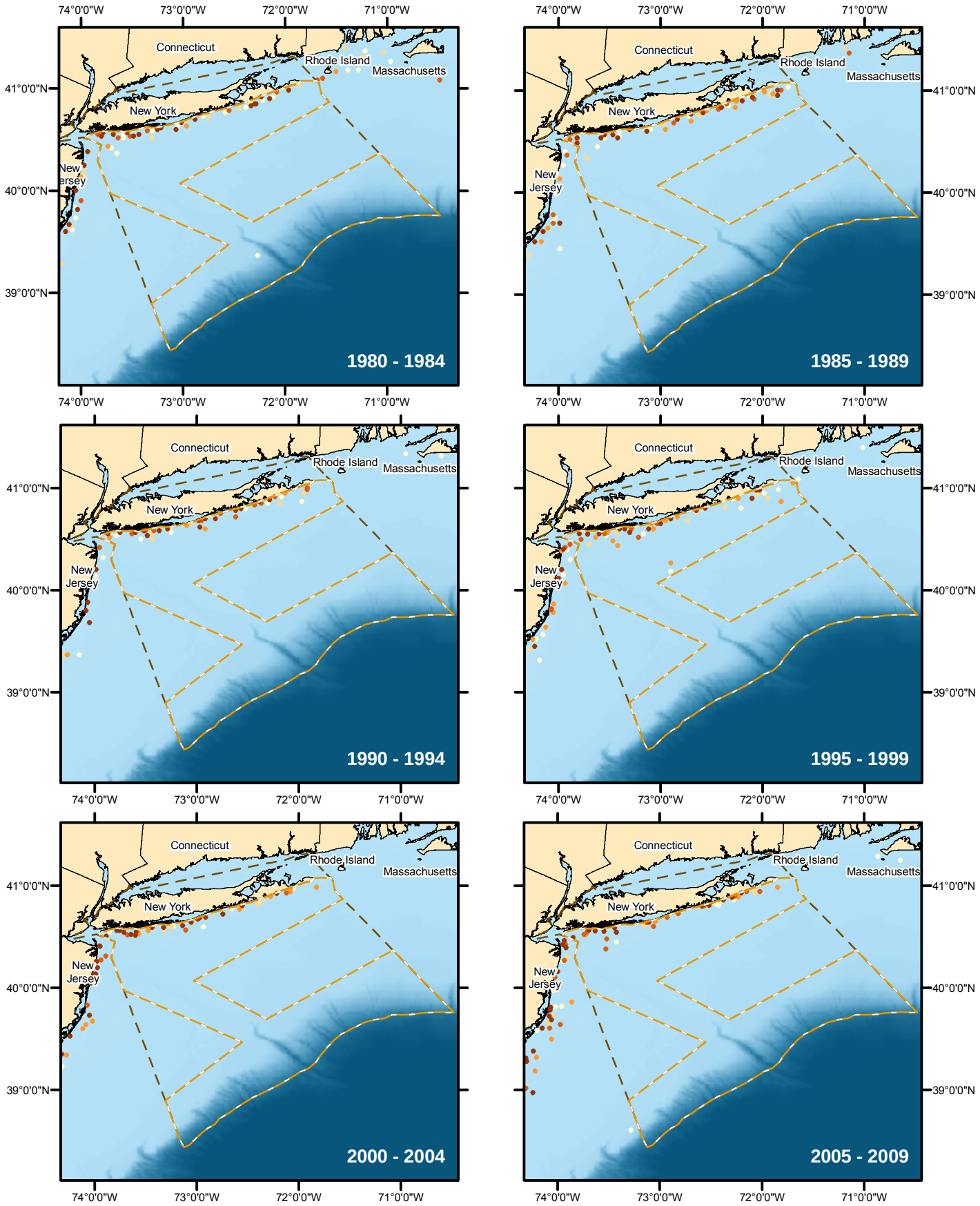
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Bluefish Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

Med (4)

High (16+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

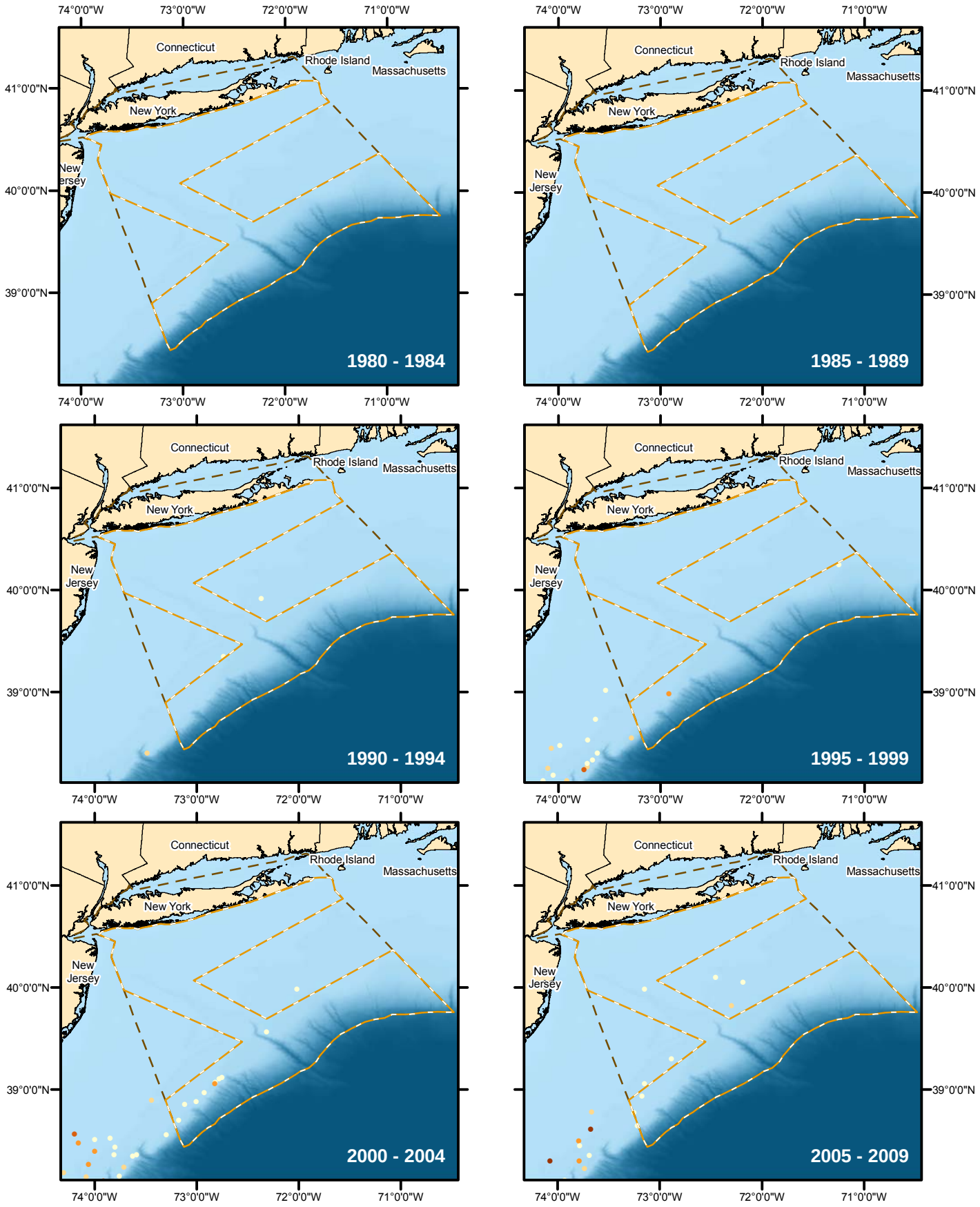
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Clearnose Skate Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (2)

High (6+)

NY's Phase I CMP Amendment Boundary

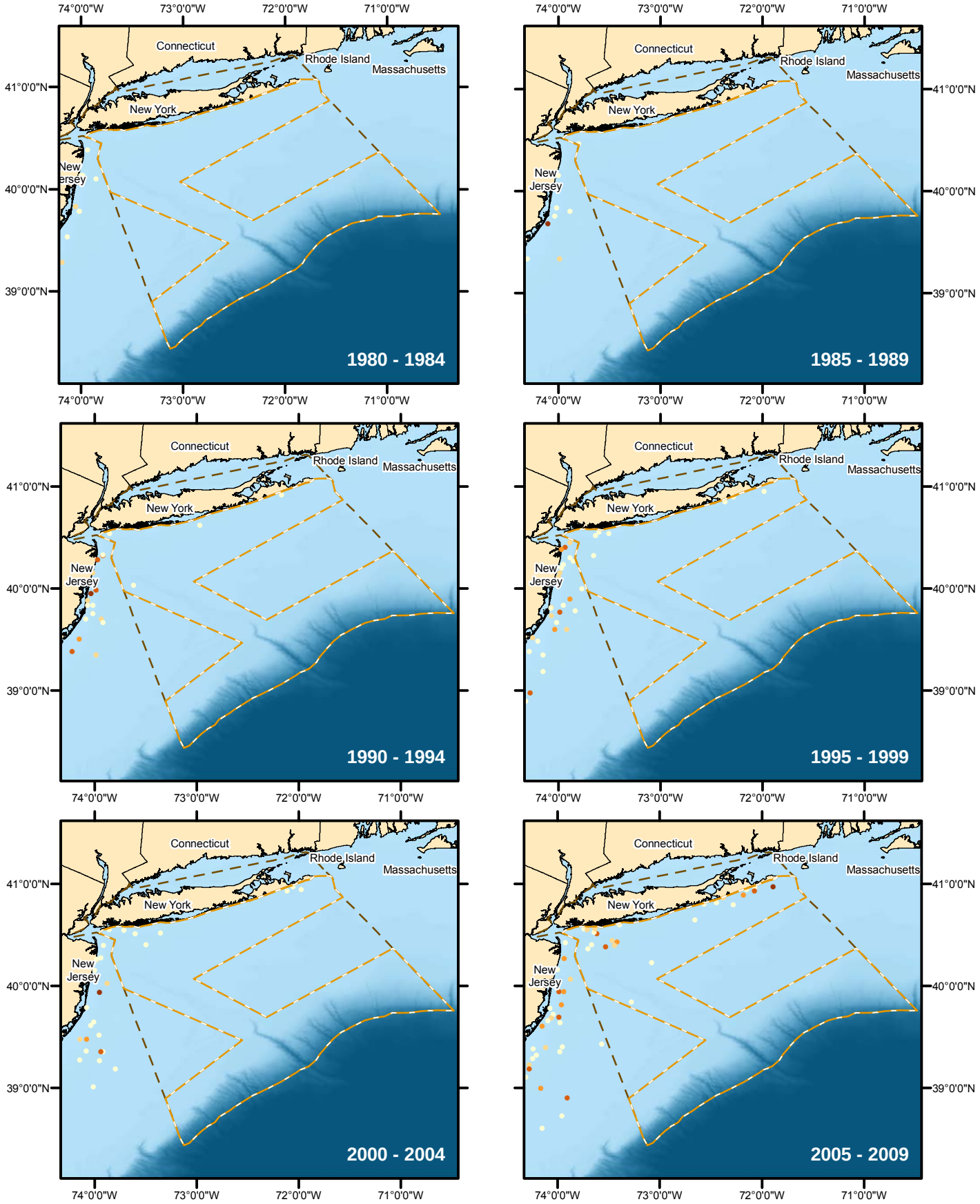
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Clearnose Skate Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (2)

High (6+)

NY's Phase I CMP Amendment Boundary

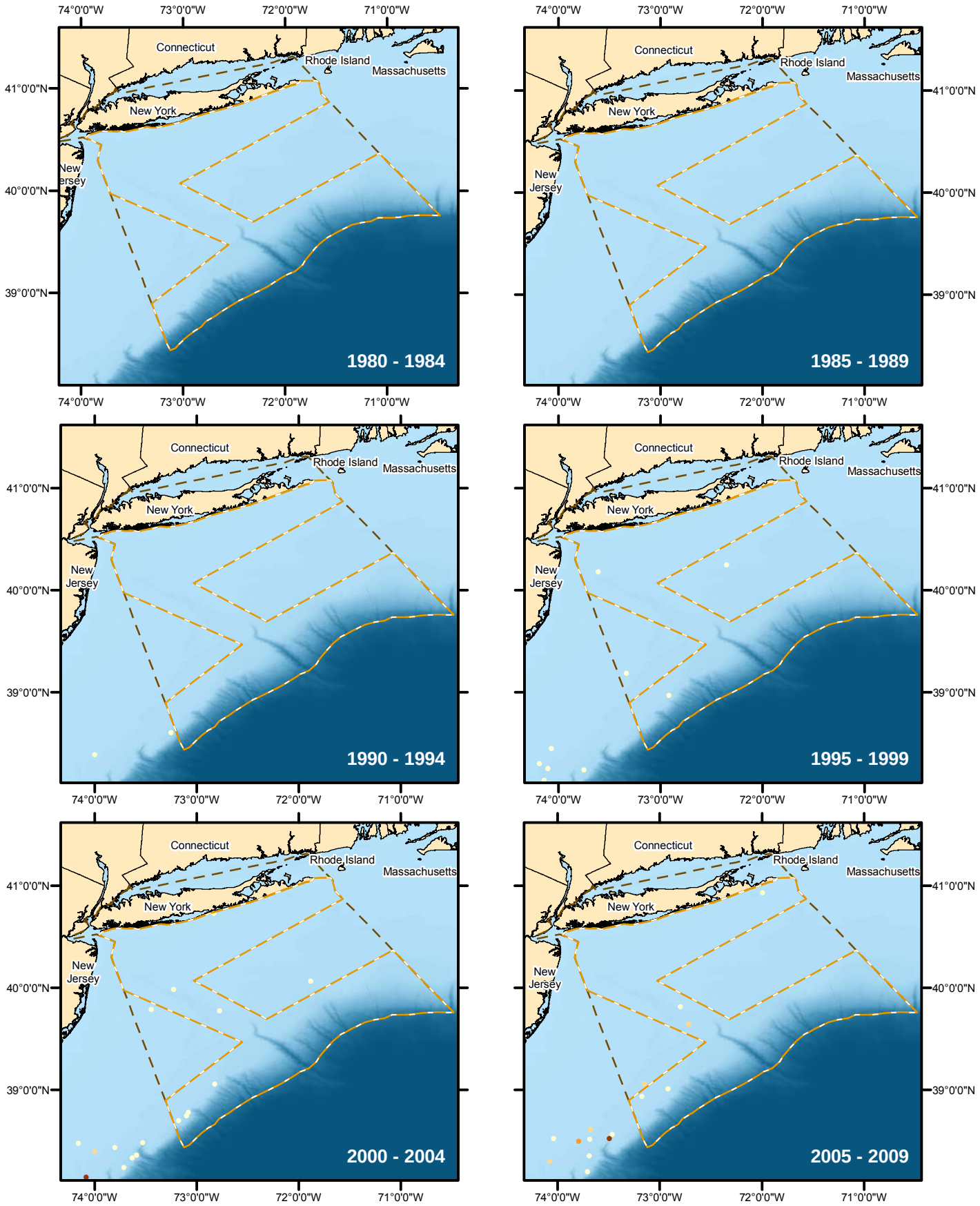
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Clearnose Skate Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (2)

High (6+)

NY's Phase I CMP Amendment Boundary

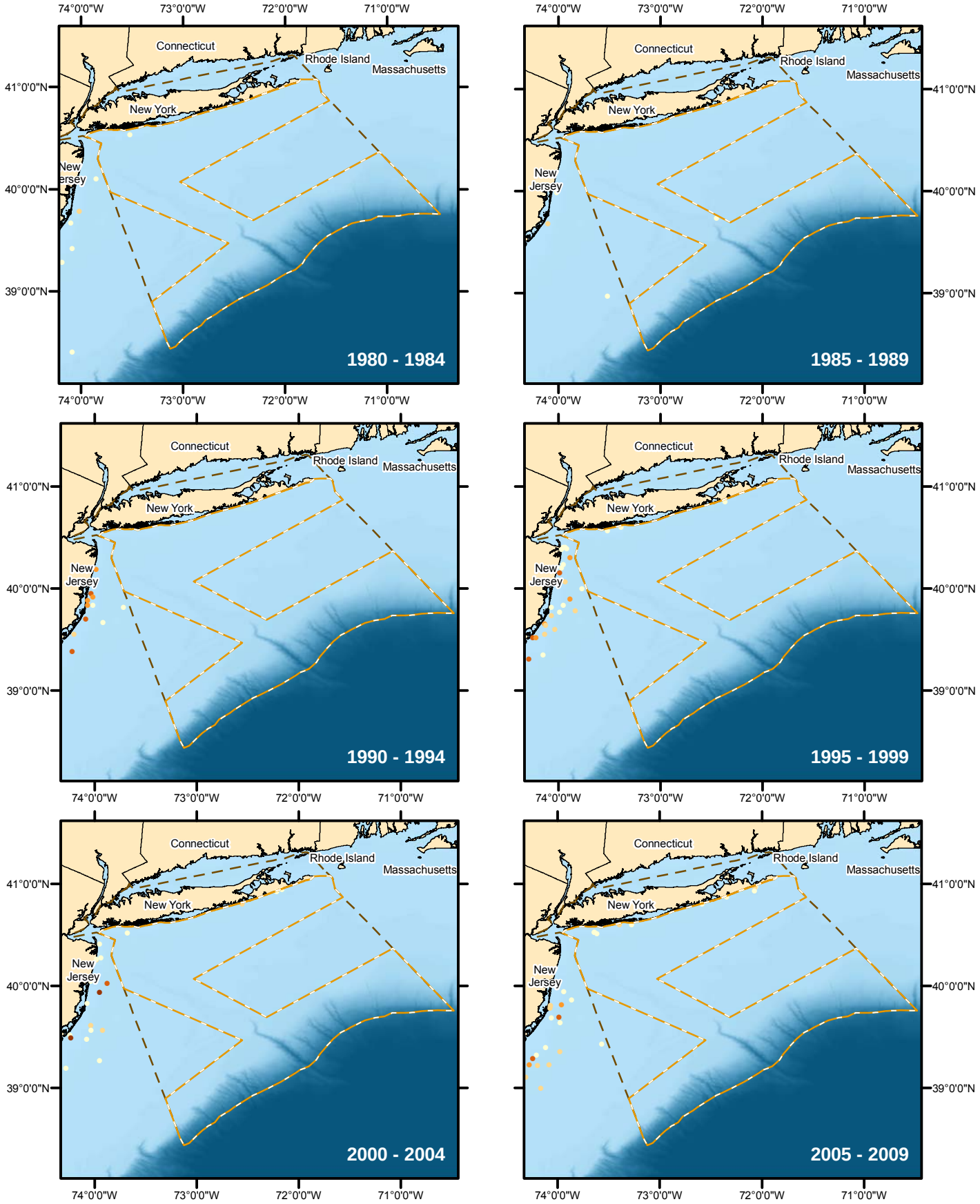
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Clearnose Skate Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

Med (2)

High (6+)

NY's Phase I CMP Amendment Boundary

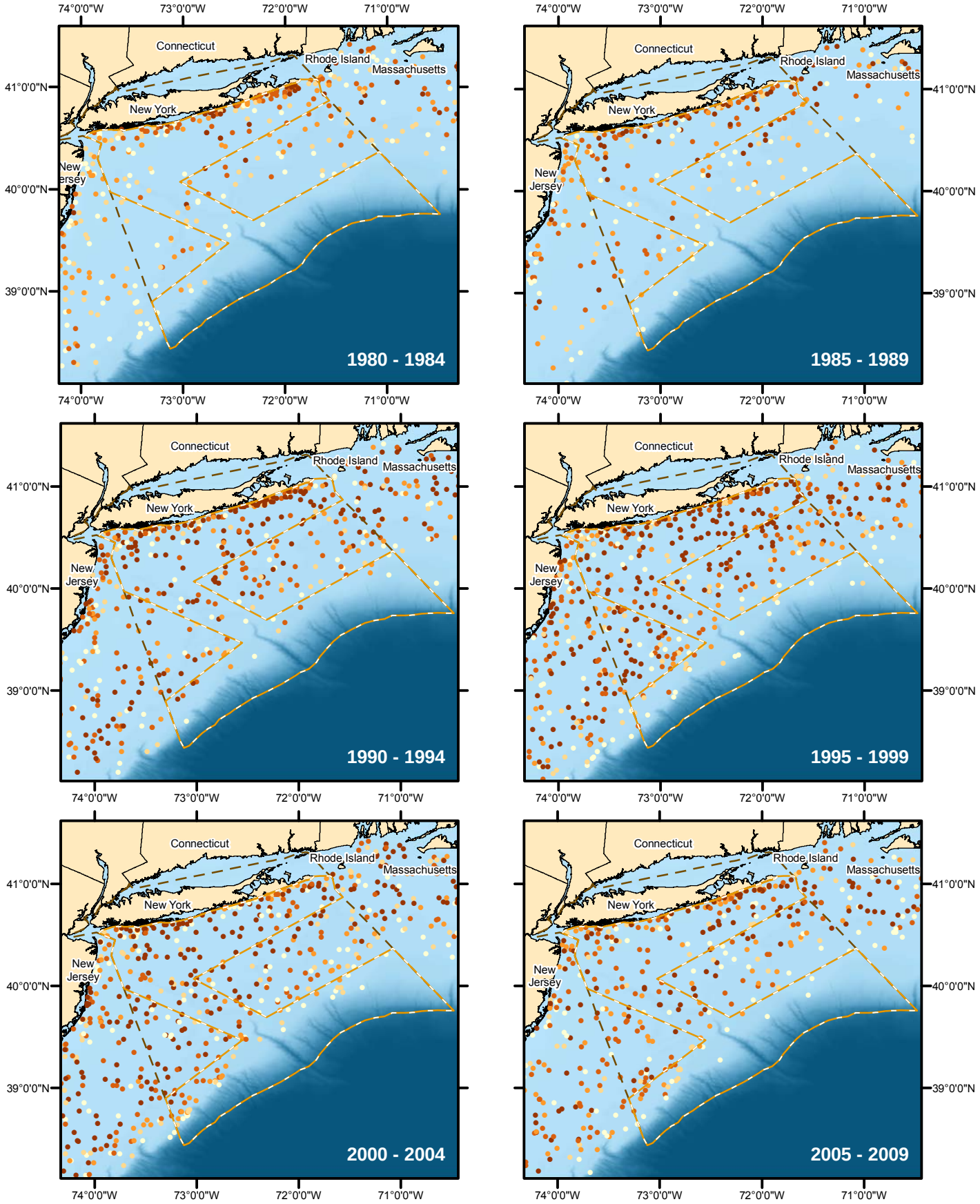
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Little Skate Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (15)

High (94+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

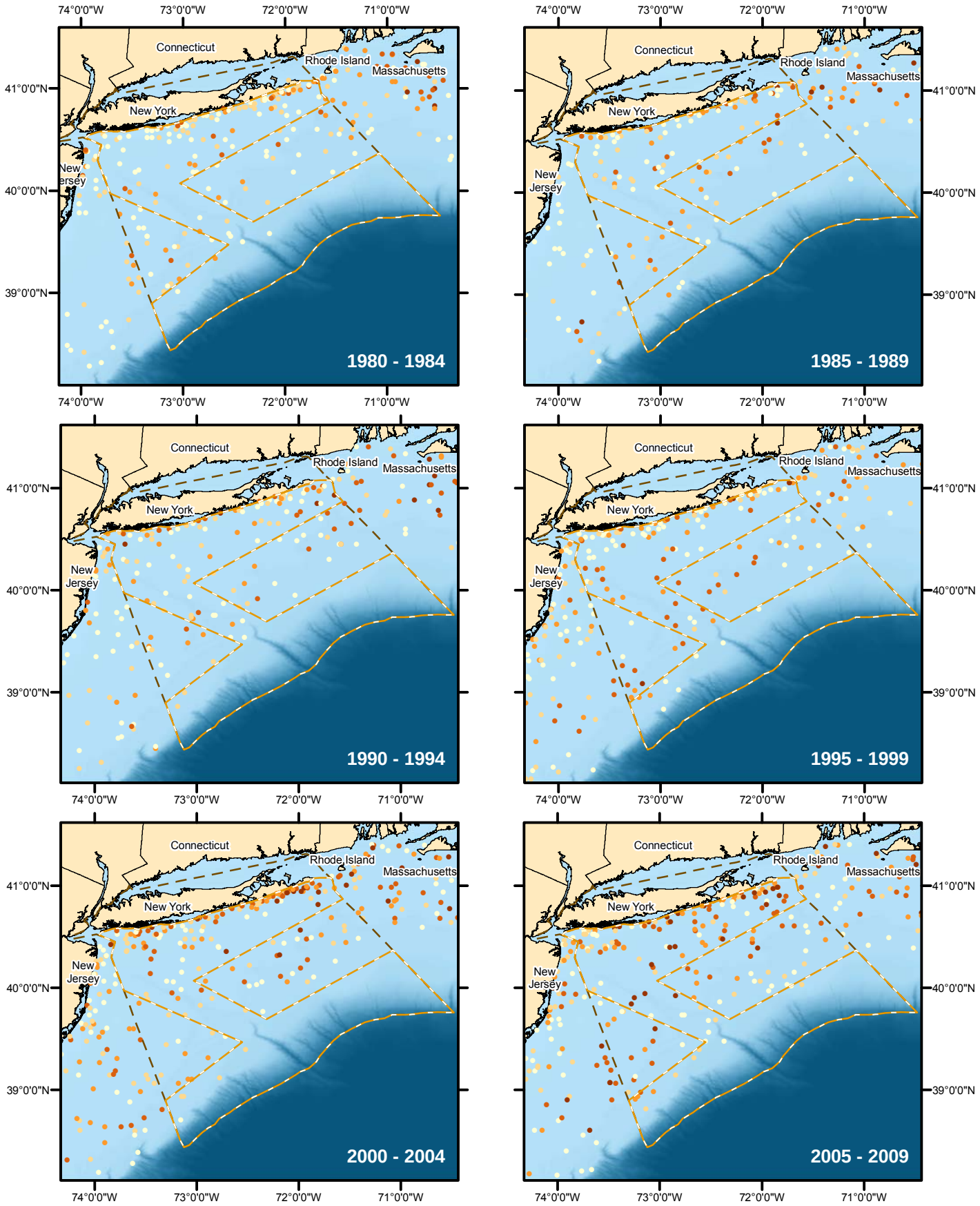
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Little Skate Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (15)

High (94+)

NY's Phase I CMP Amendment Boundary

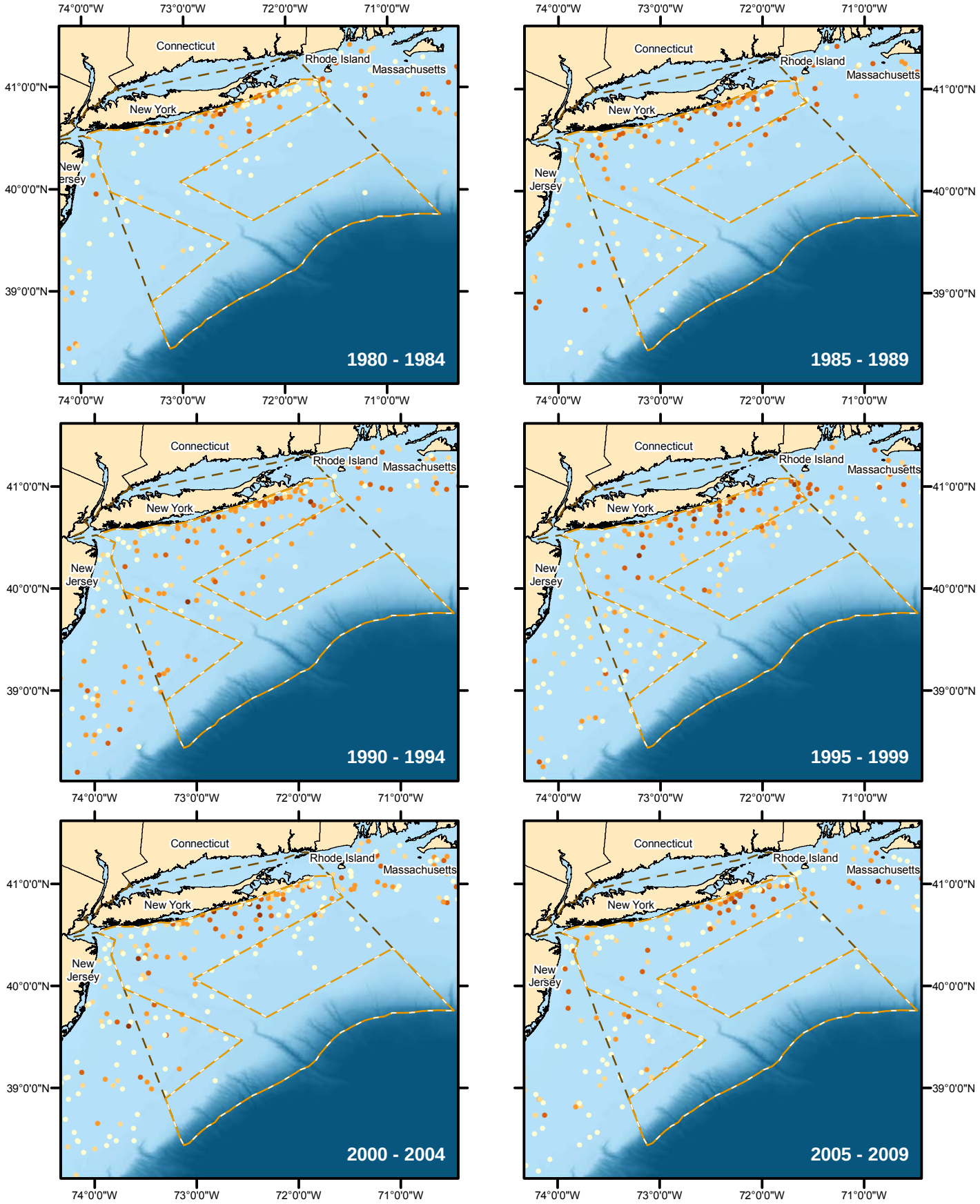
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Little Skate Species Abundance

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Low (1)

Med (15)

High (94+)

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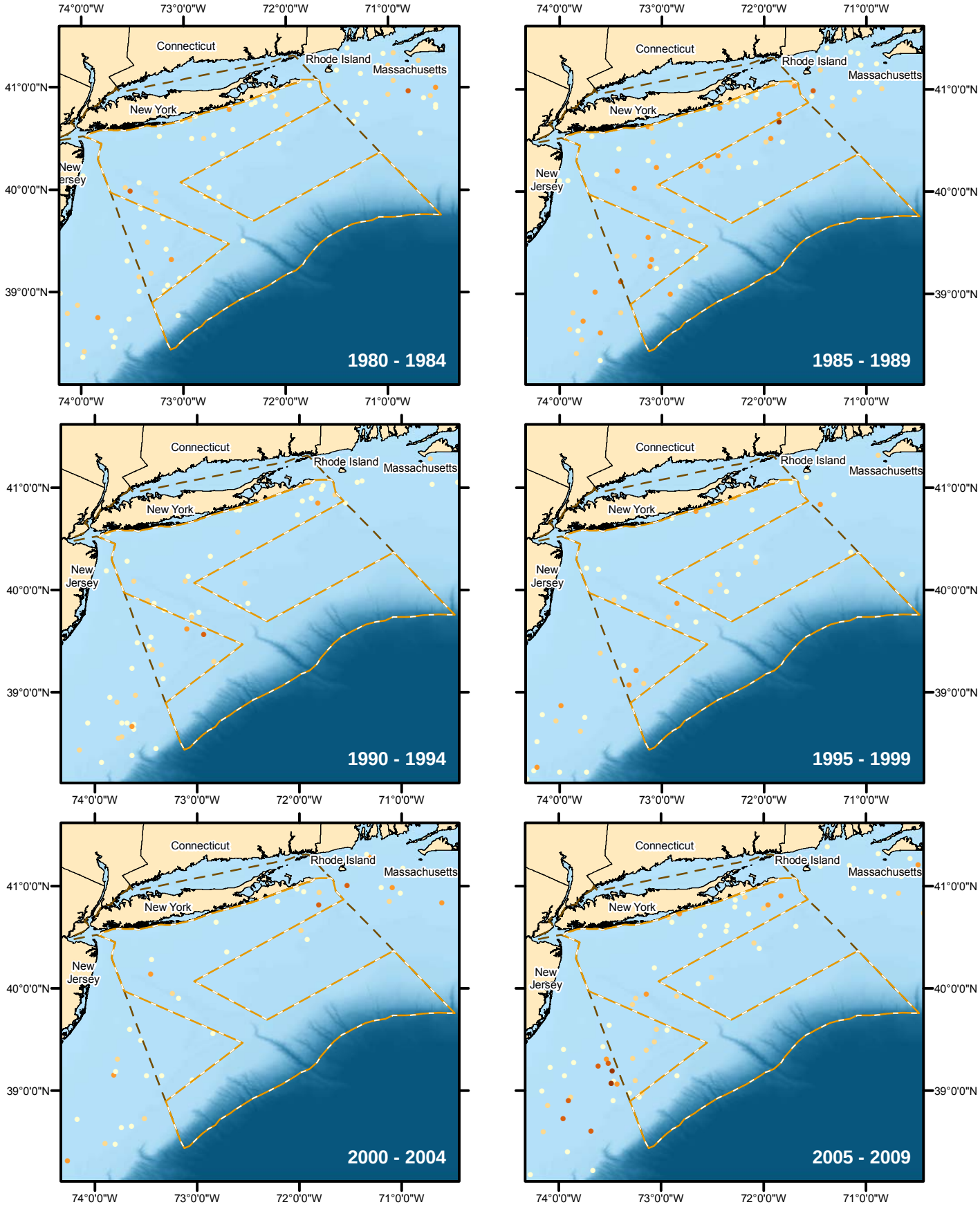

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Fall, Juvenile 1980 - 2009

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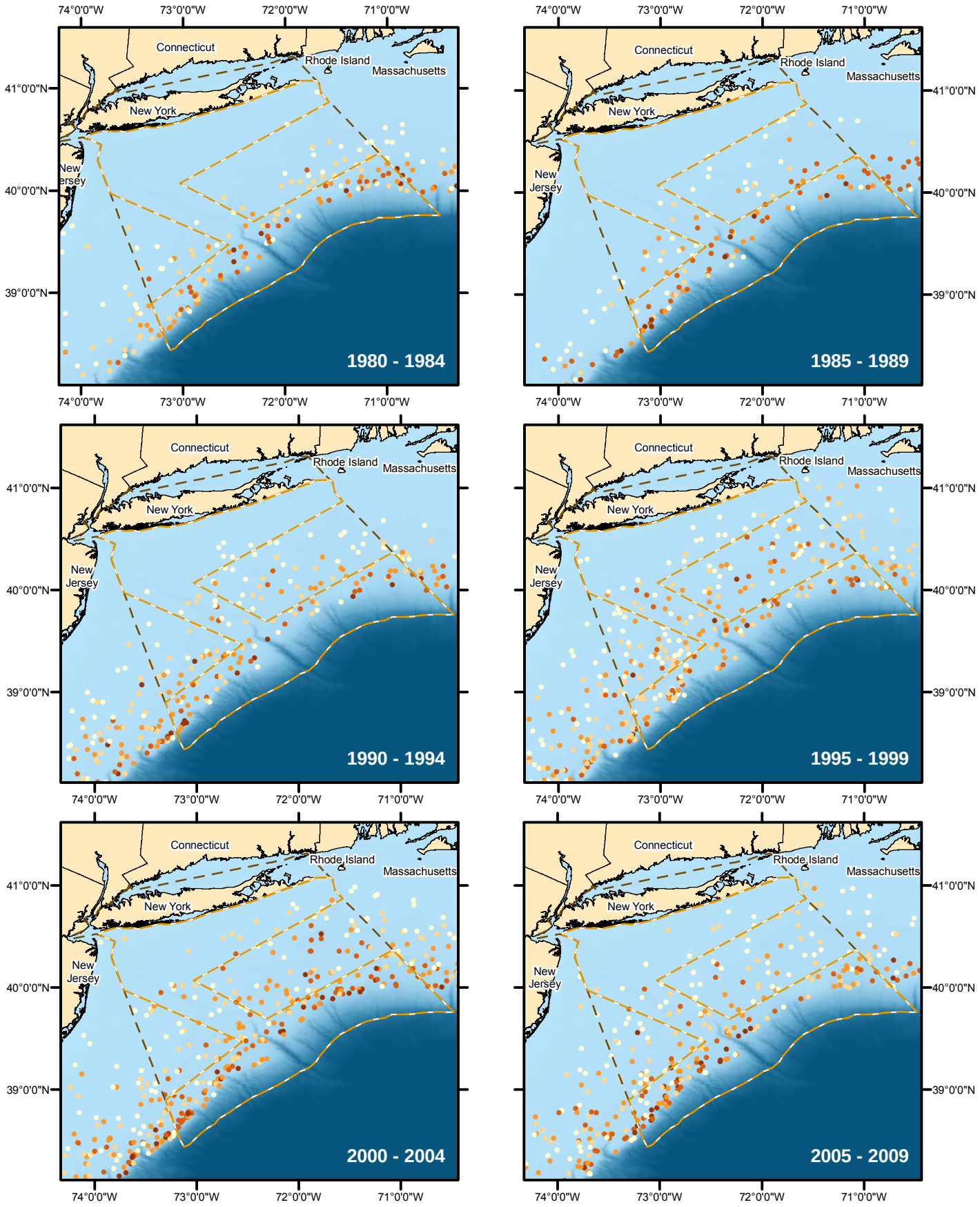
Med (15)
High (94+)

NY's Phase I CMP Amendment Boundary
NY's Offshore Planning Boundary

0 25 50 nm
0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Longfin Squid Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (57)

High (341+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

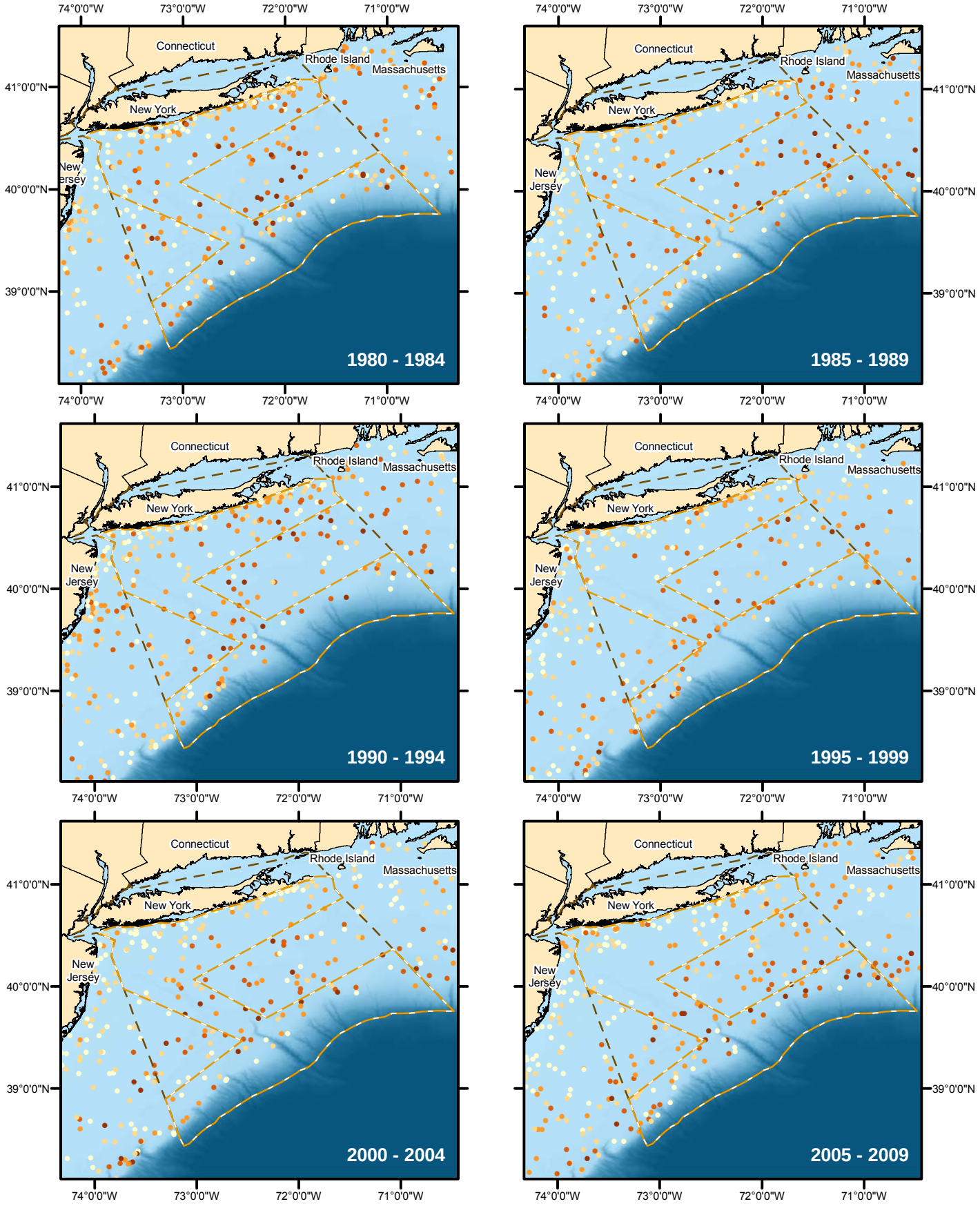
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Longfin Squid Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (57)

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NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

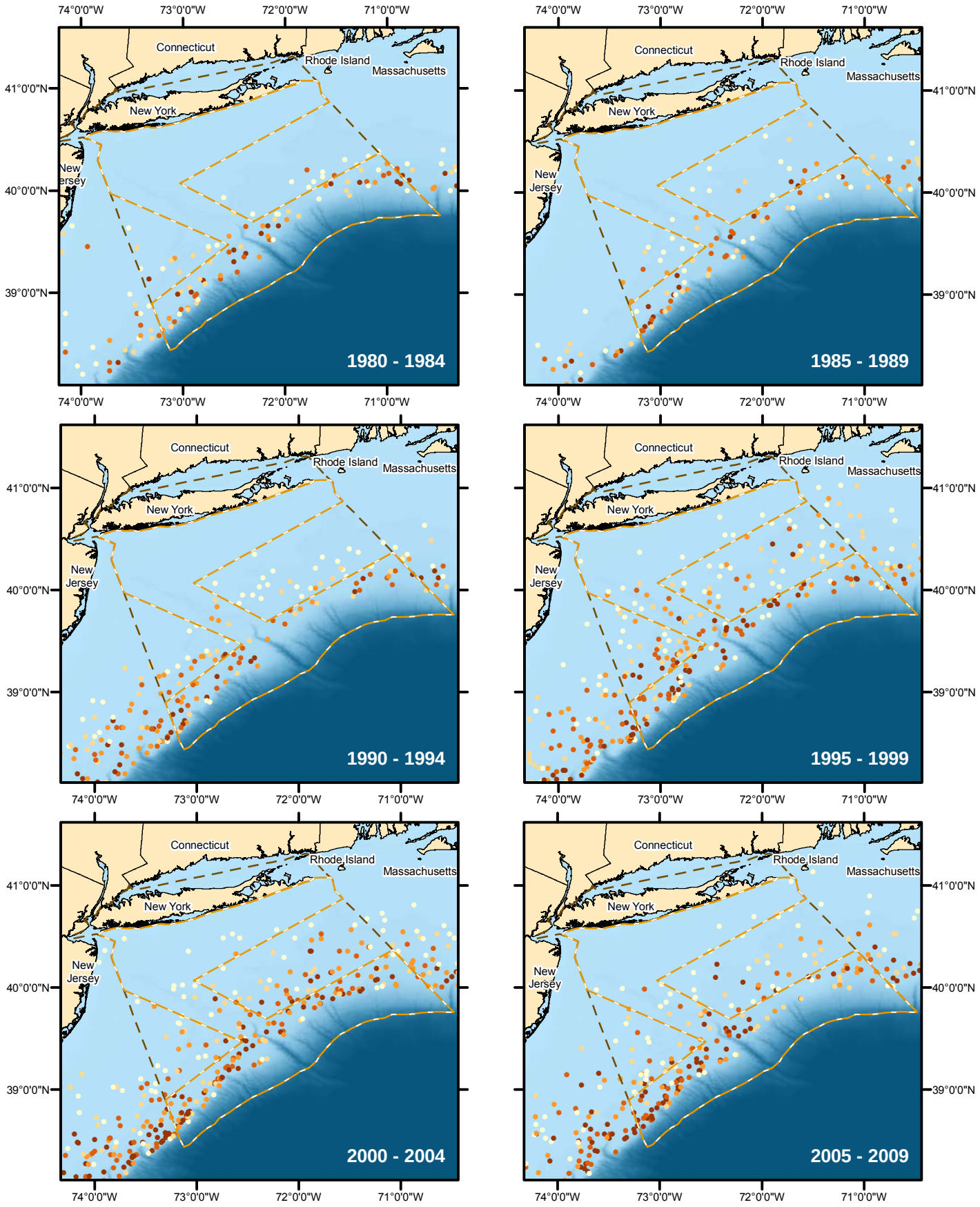
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Longfin Squid Species Abundance

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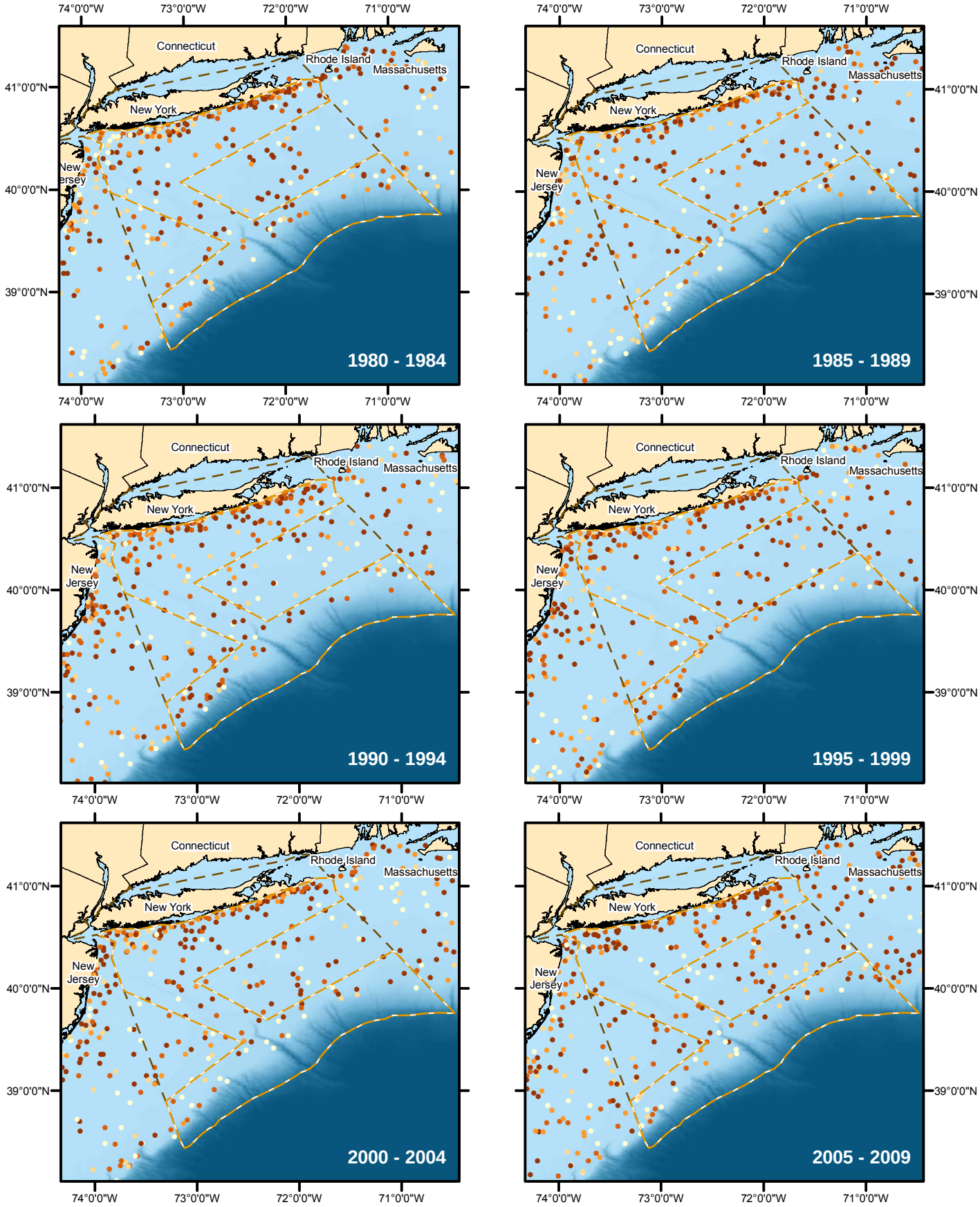

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Planning boundaries, NY Department of State

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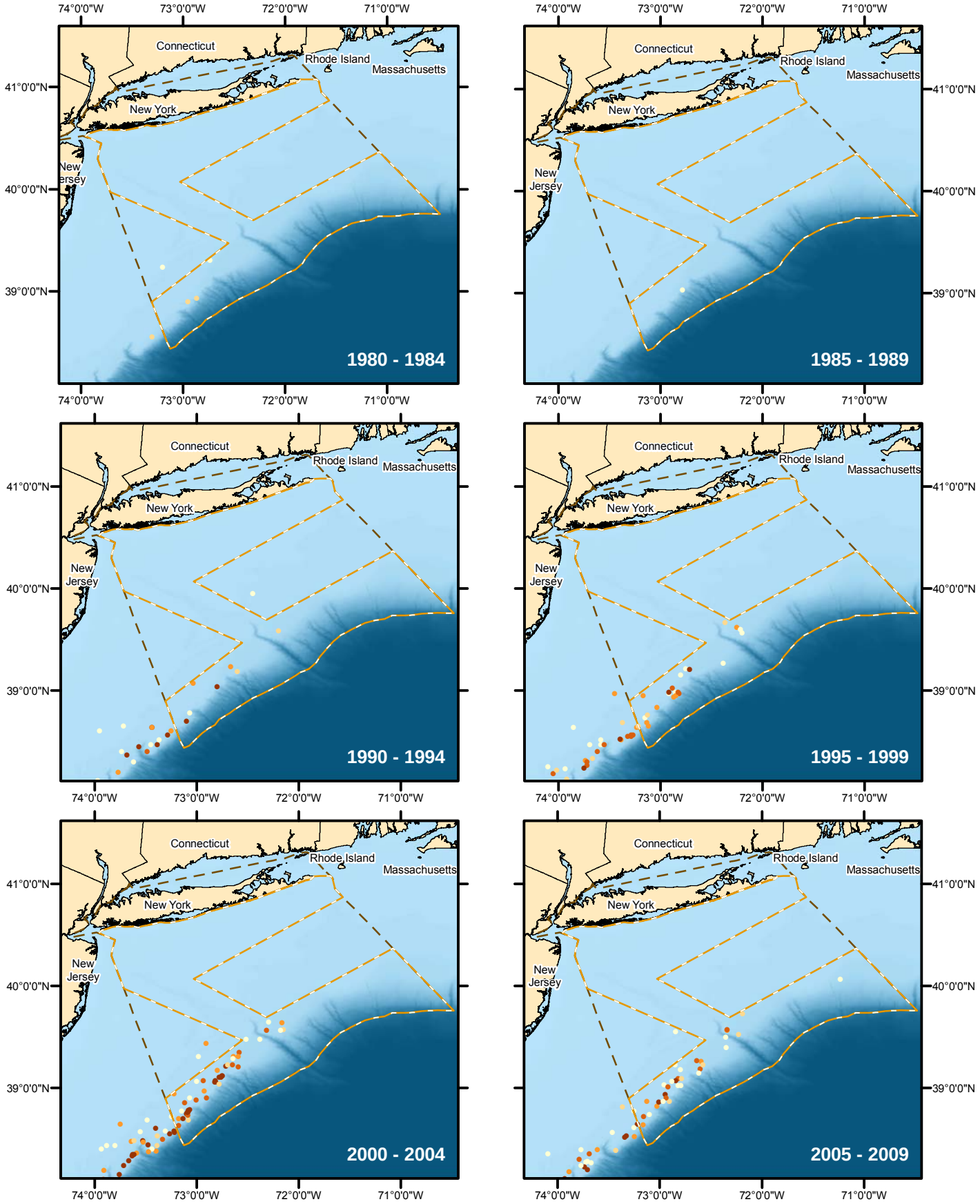


Rosette Skate Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (4)

High (12+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

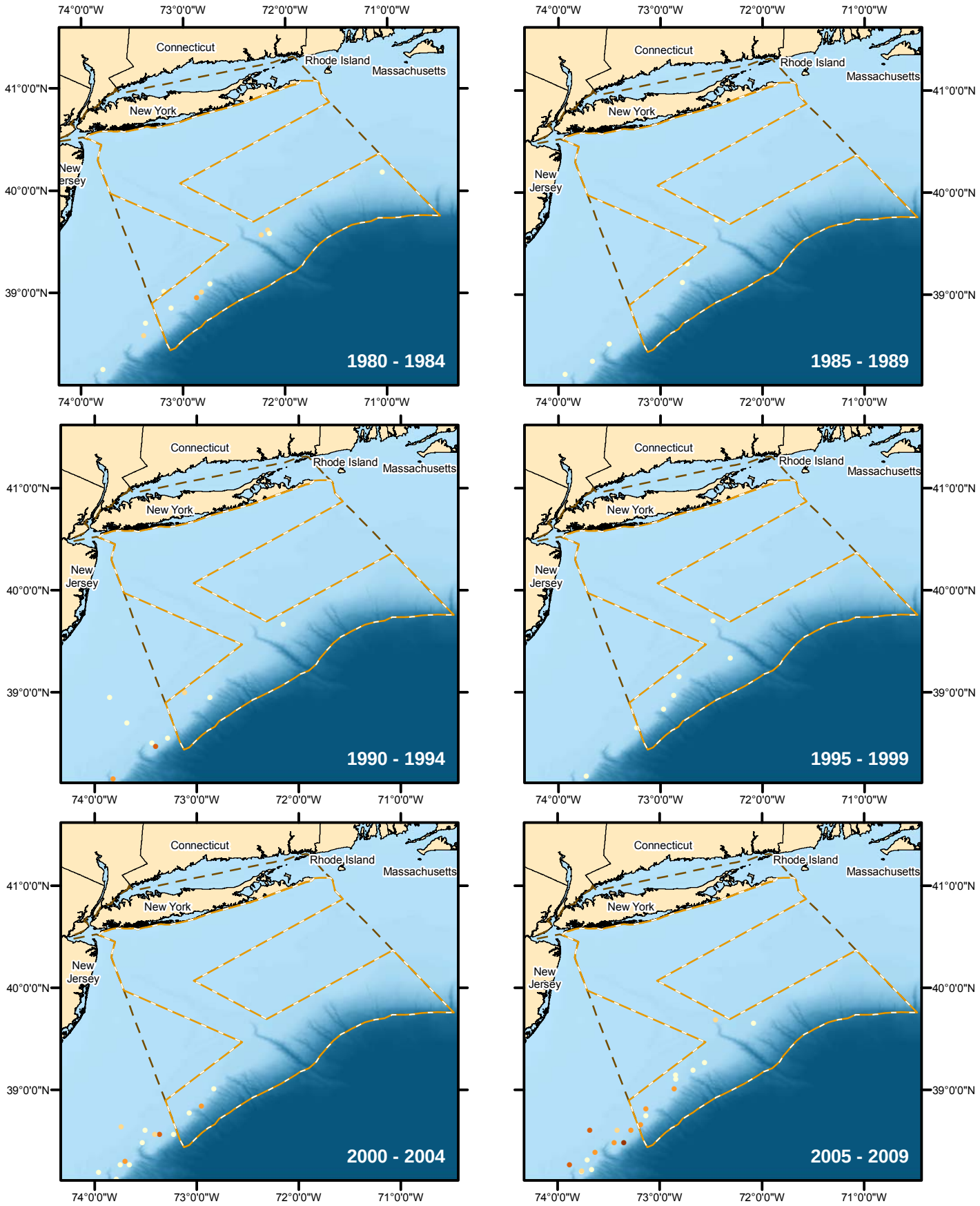
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Rosette Skate Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (4)

High (12+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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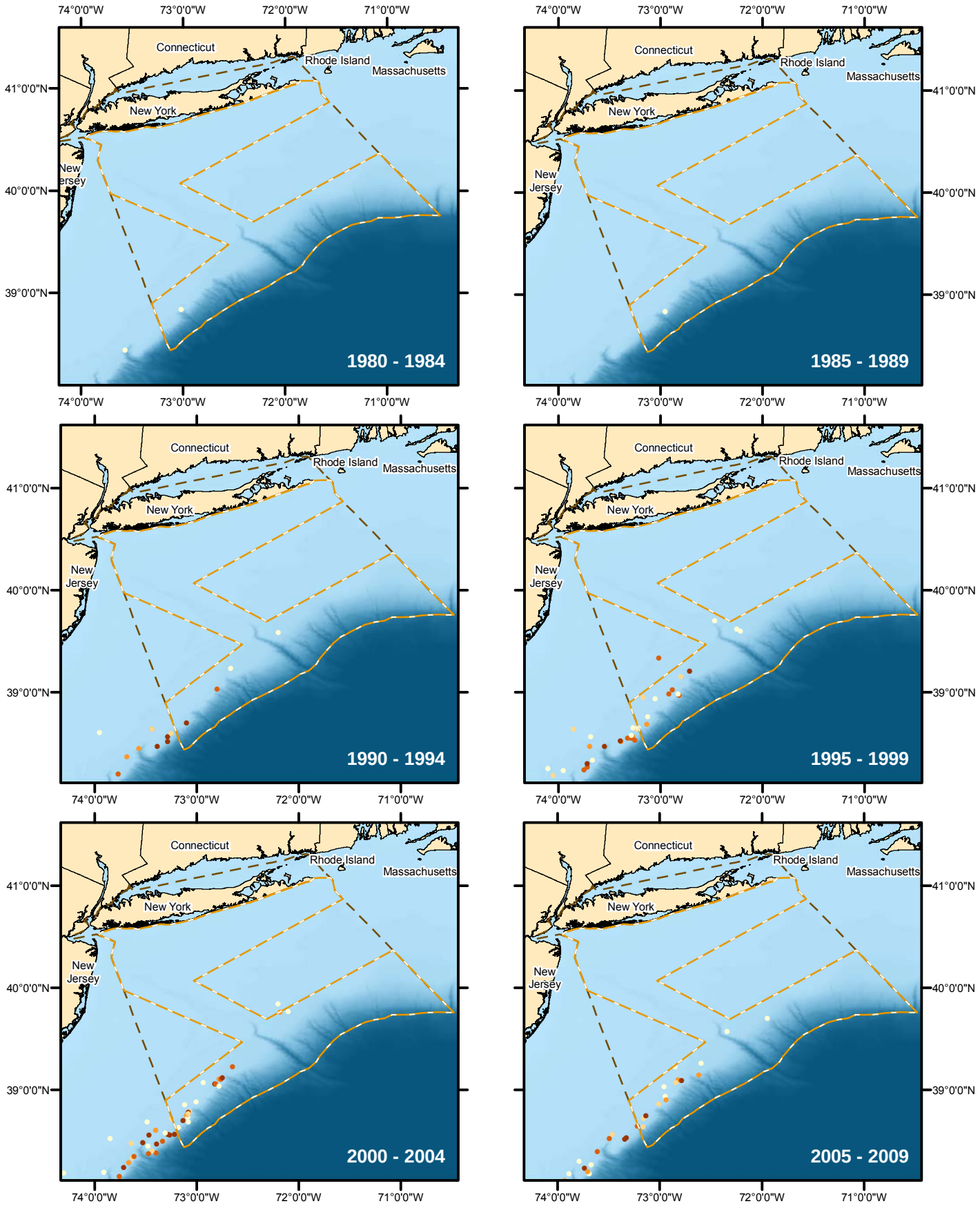

Rosette Skate Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (4)

High (12+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

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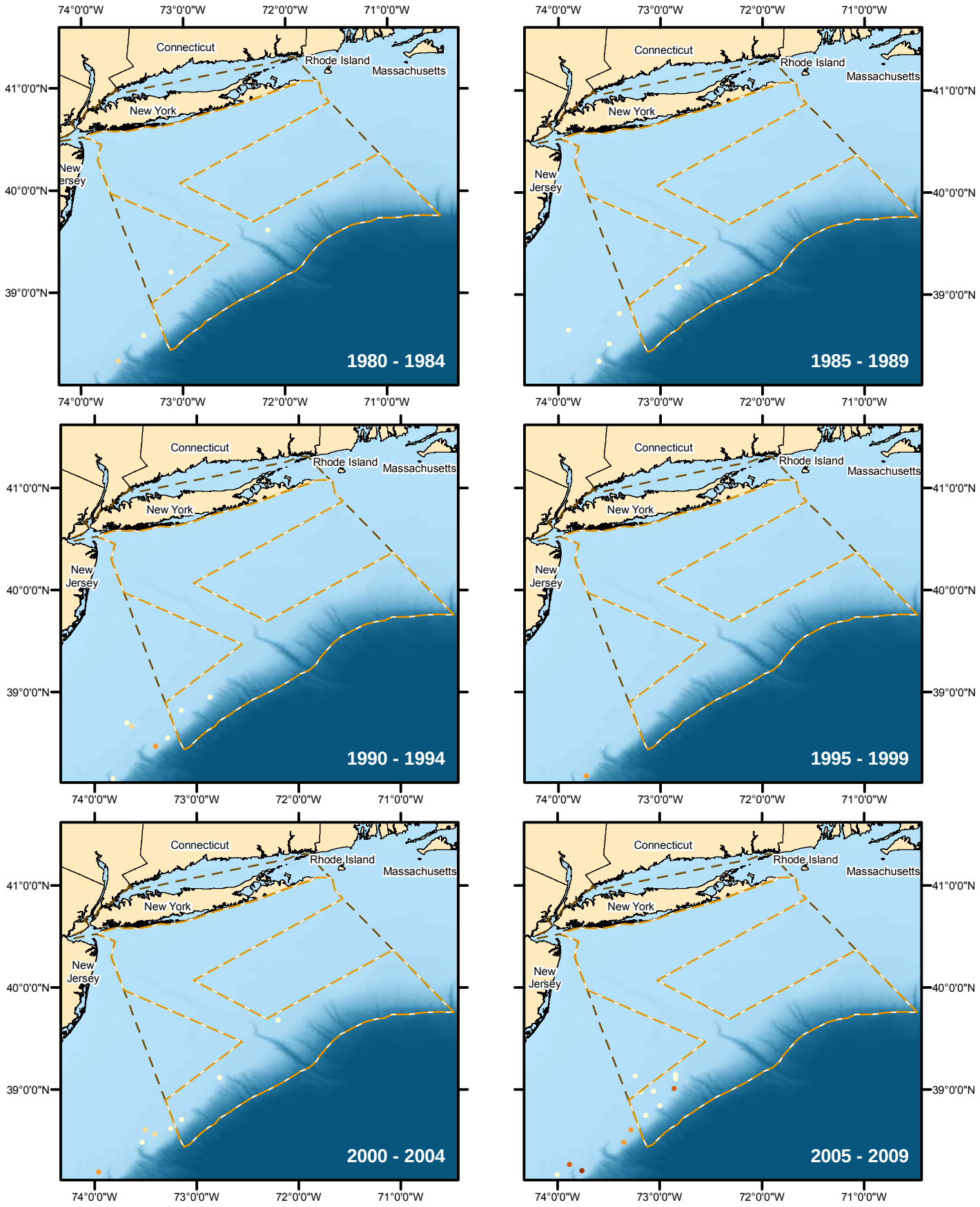

Rosette Skate Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

Med (4)

High (12+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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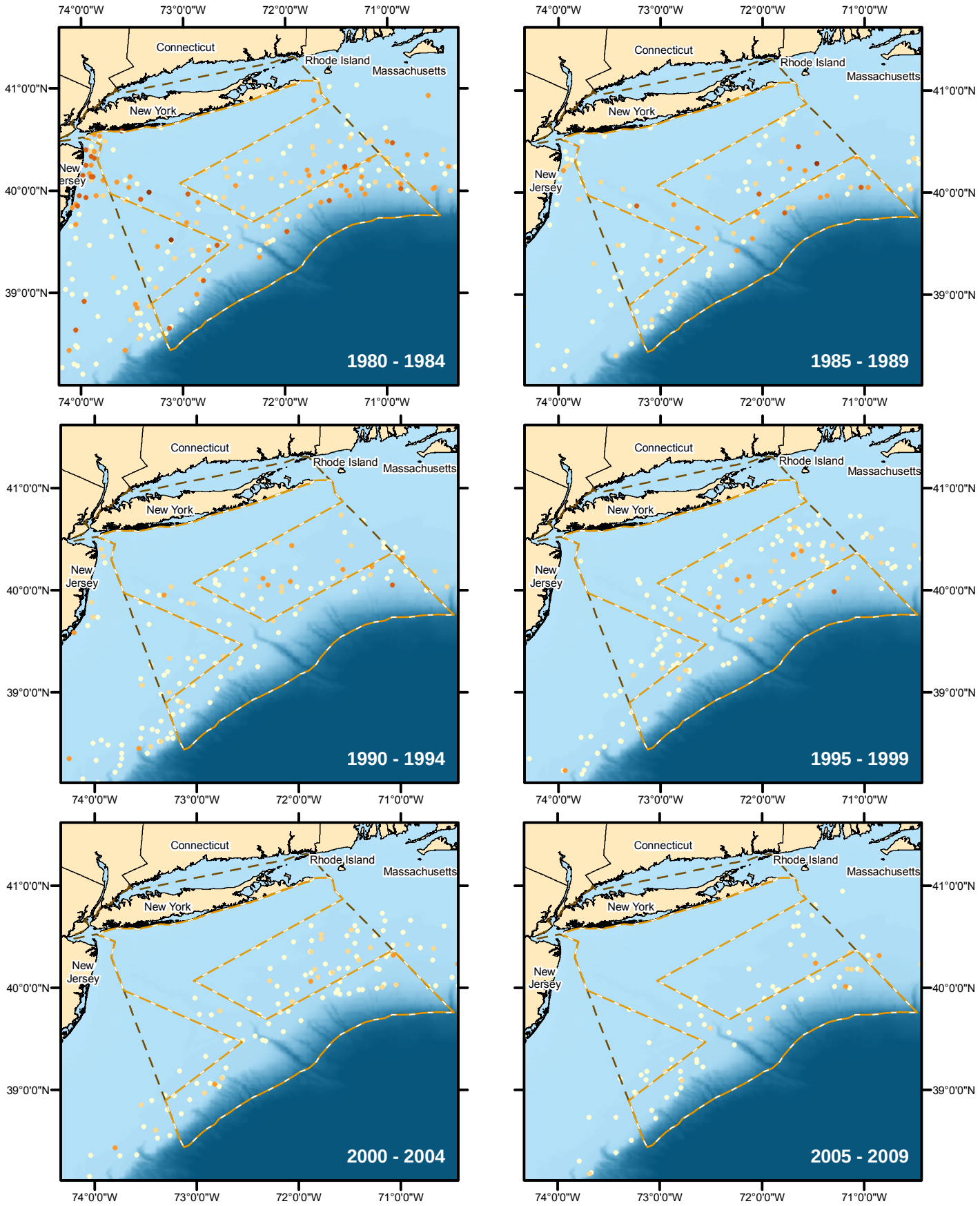


Silver Hake Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (11)

High (52+)

NY's Phase I CMP Amendment Boundary

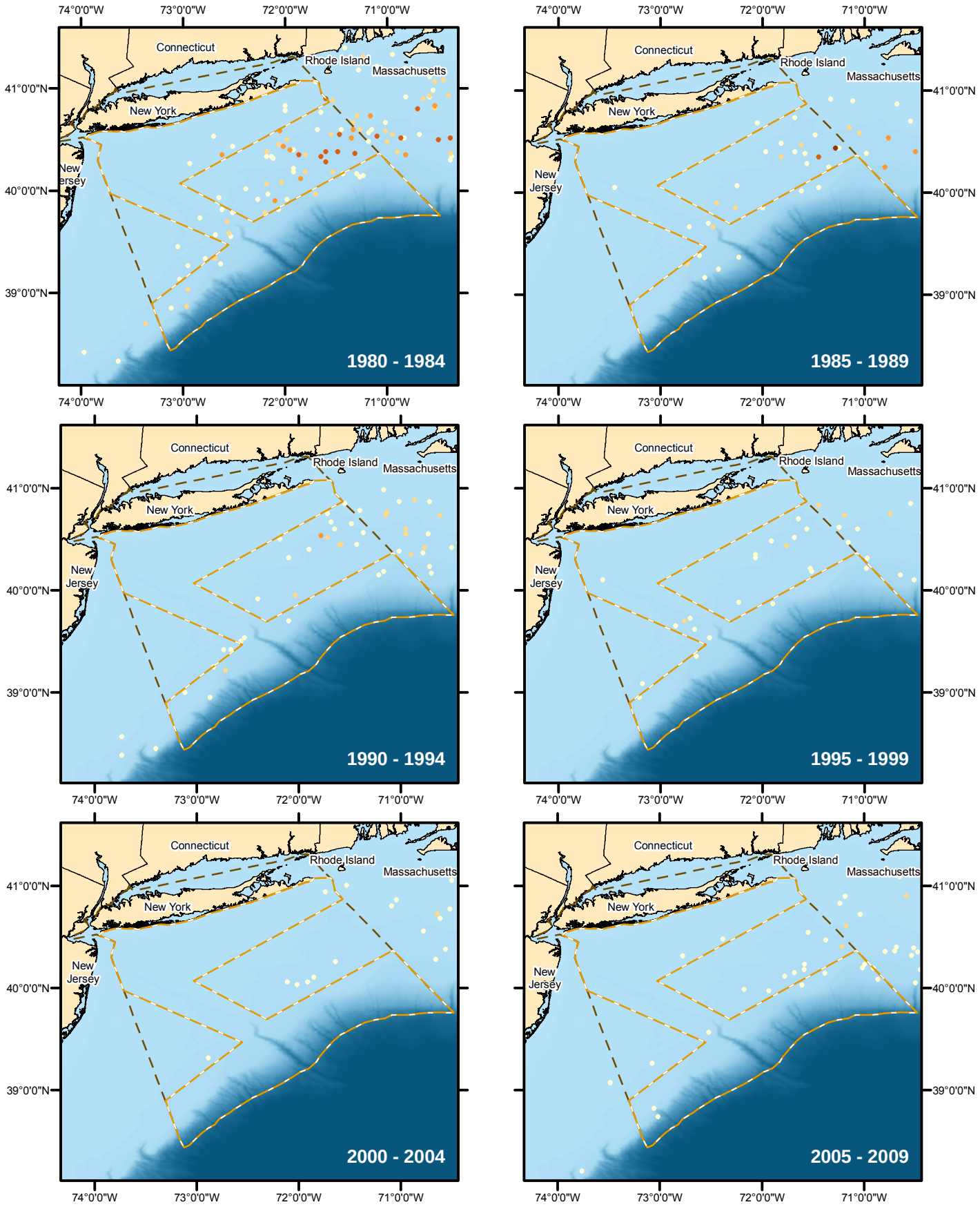
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Silver Hake Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (11)

High (52+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

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Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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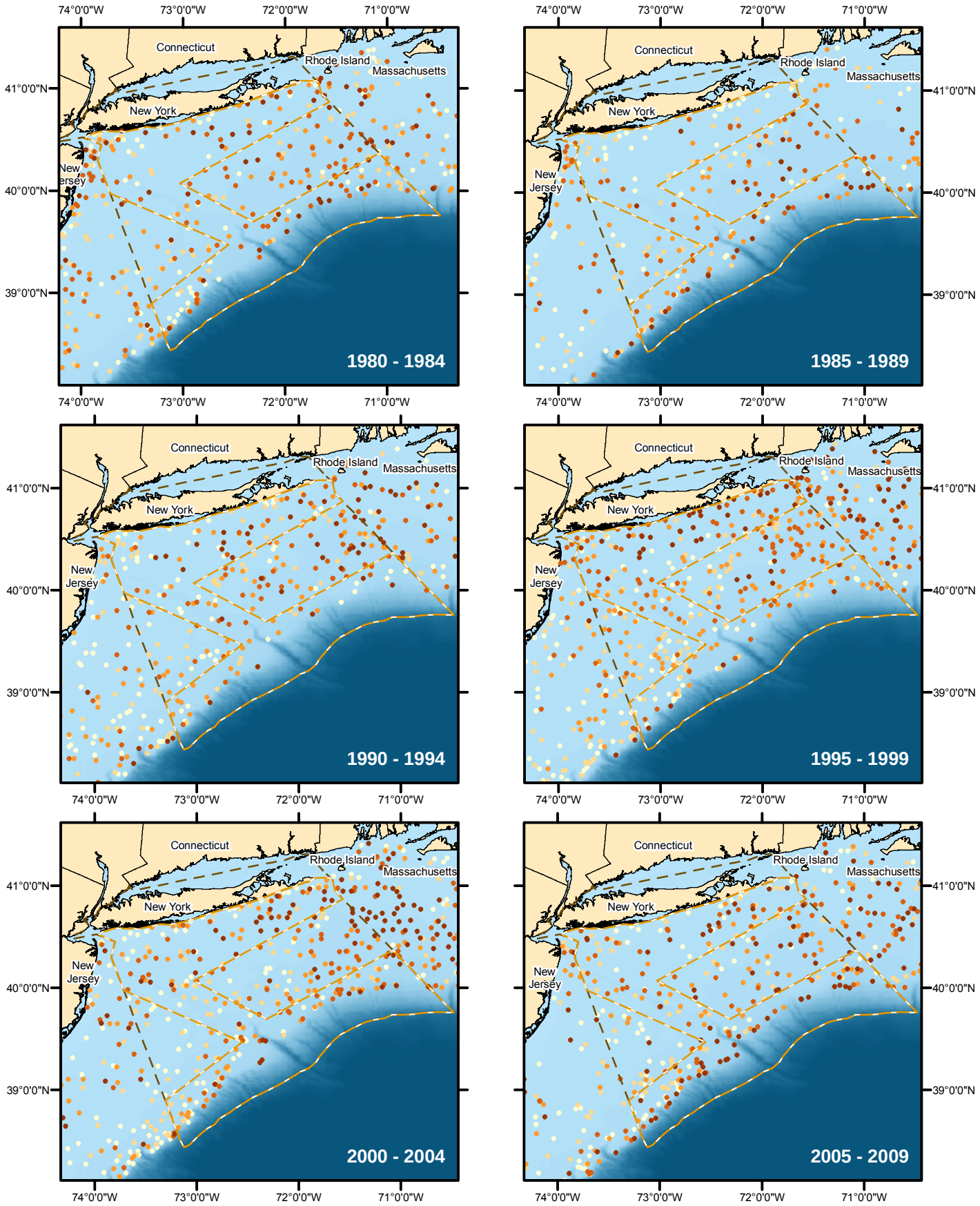

Silver Hake Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (11)

High (52+)

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NY's Offshore Planning Boundary

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0 50 100 km

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Planning boundaries, NY Department of State

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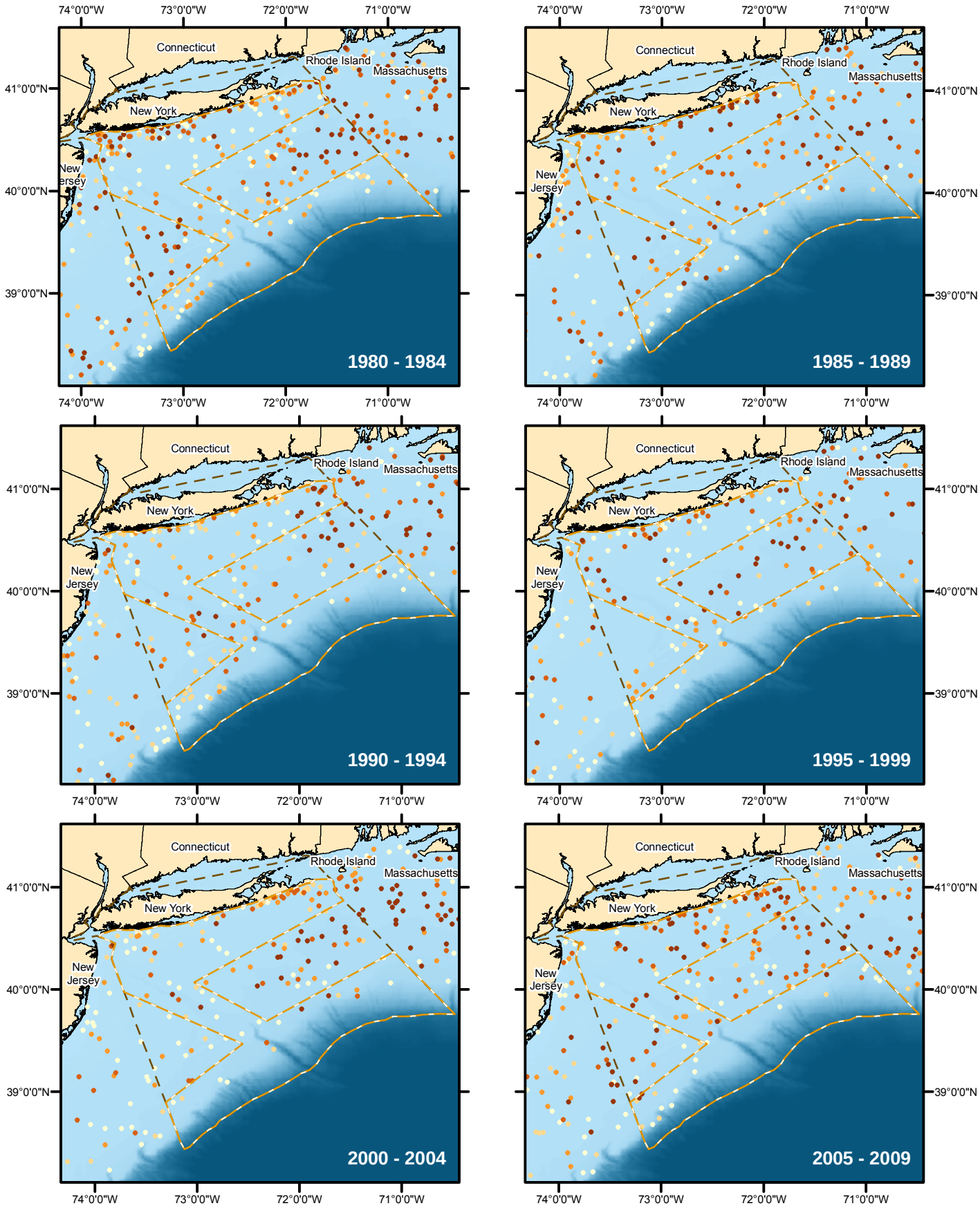

Silver Hake Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

Med (11)

High (52+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

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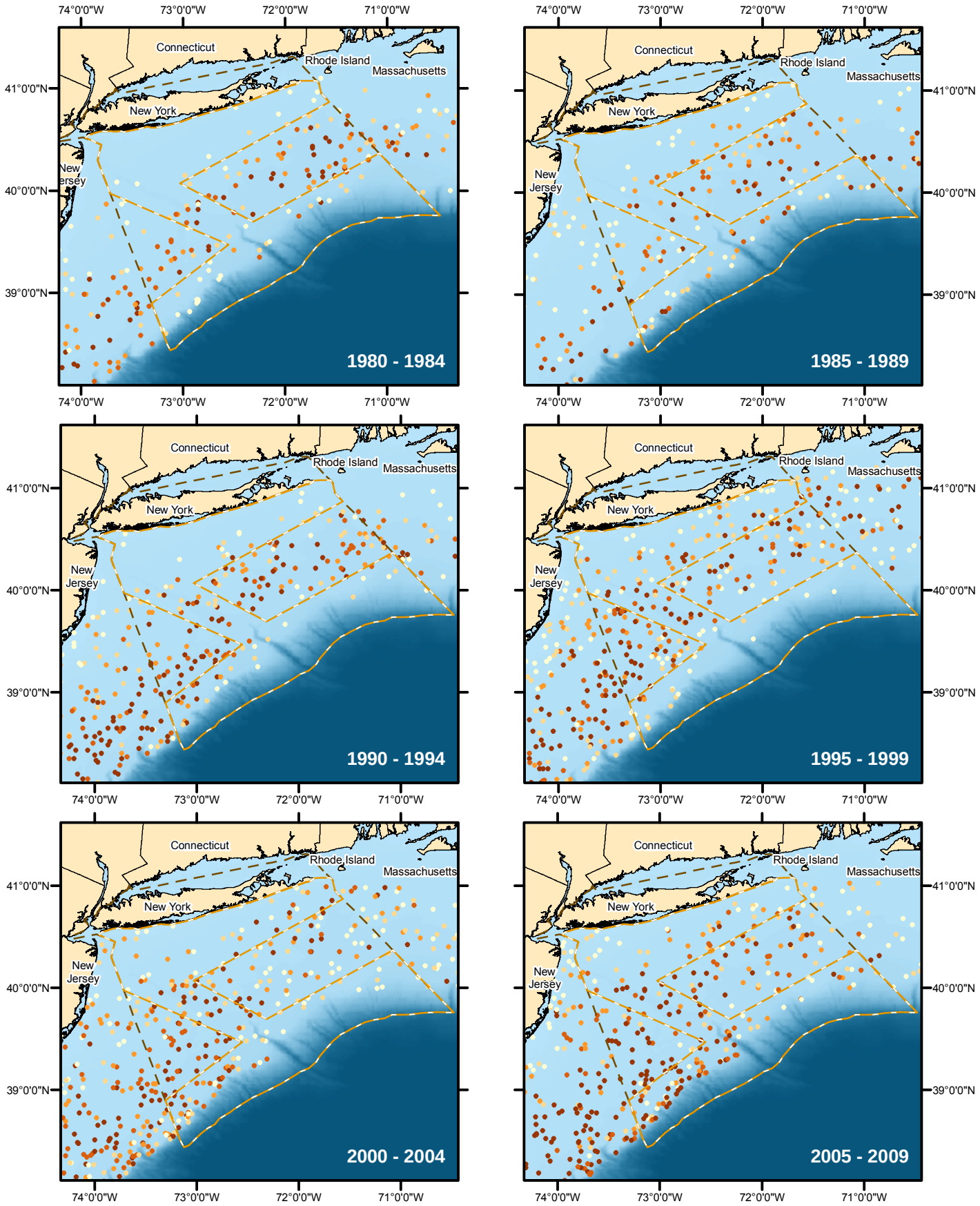
0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Spiny Dogfish Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (16)

High (81+)

NY's Phase I CMP Amendment Boundary

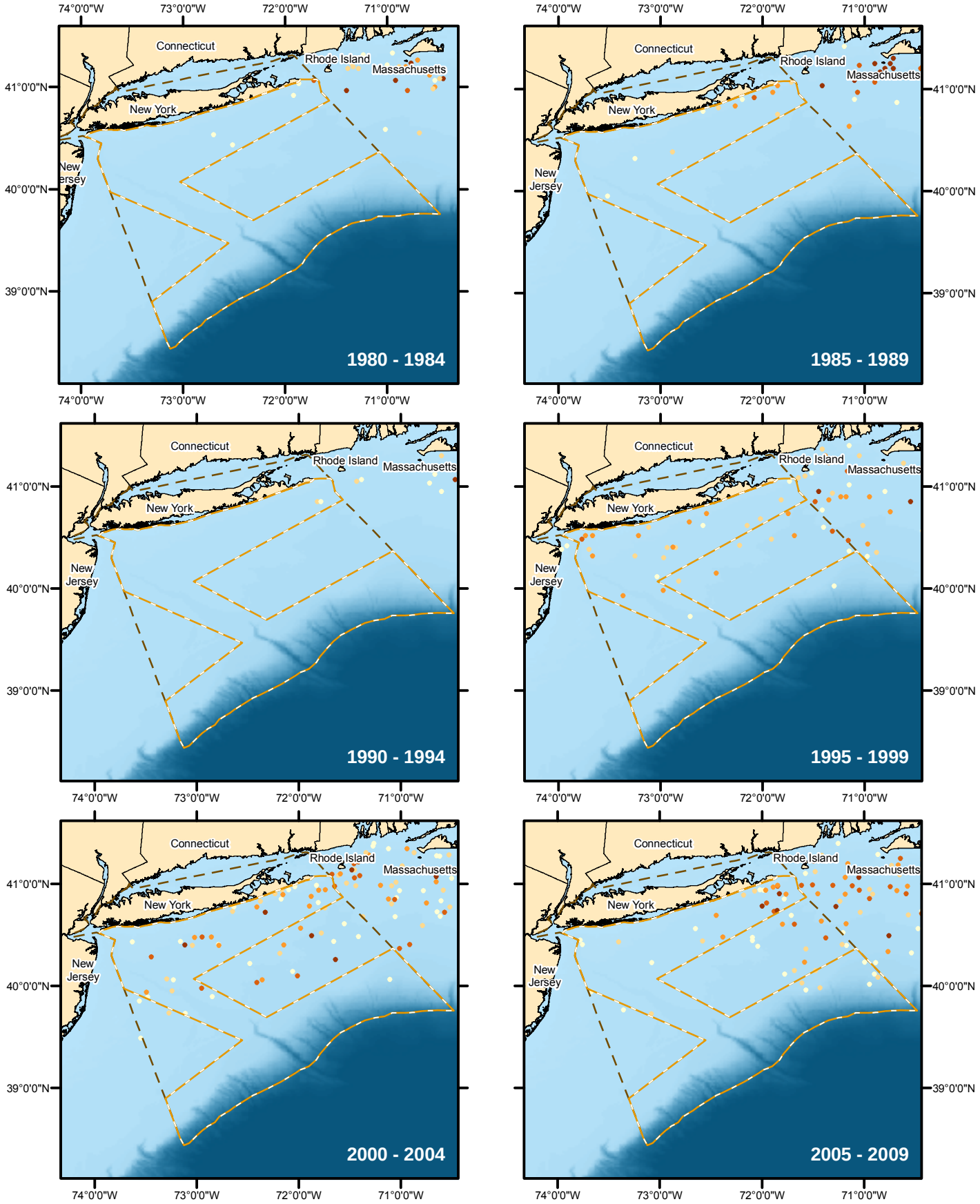
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Spiny Dogfish Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (16)

High (81+)

NY's Phase I CMP Amendment Boundary

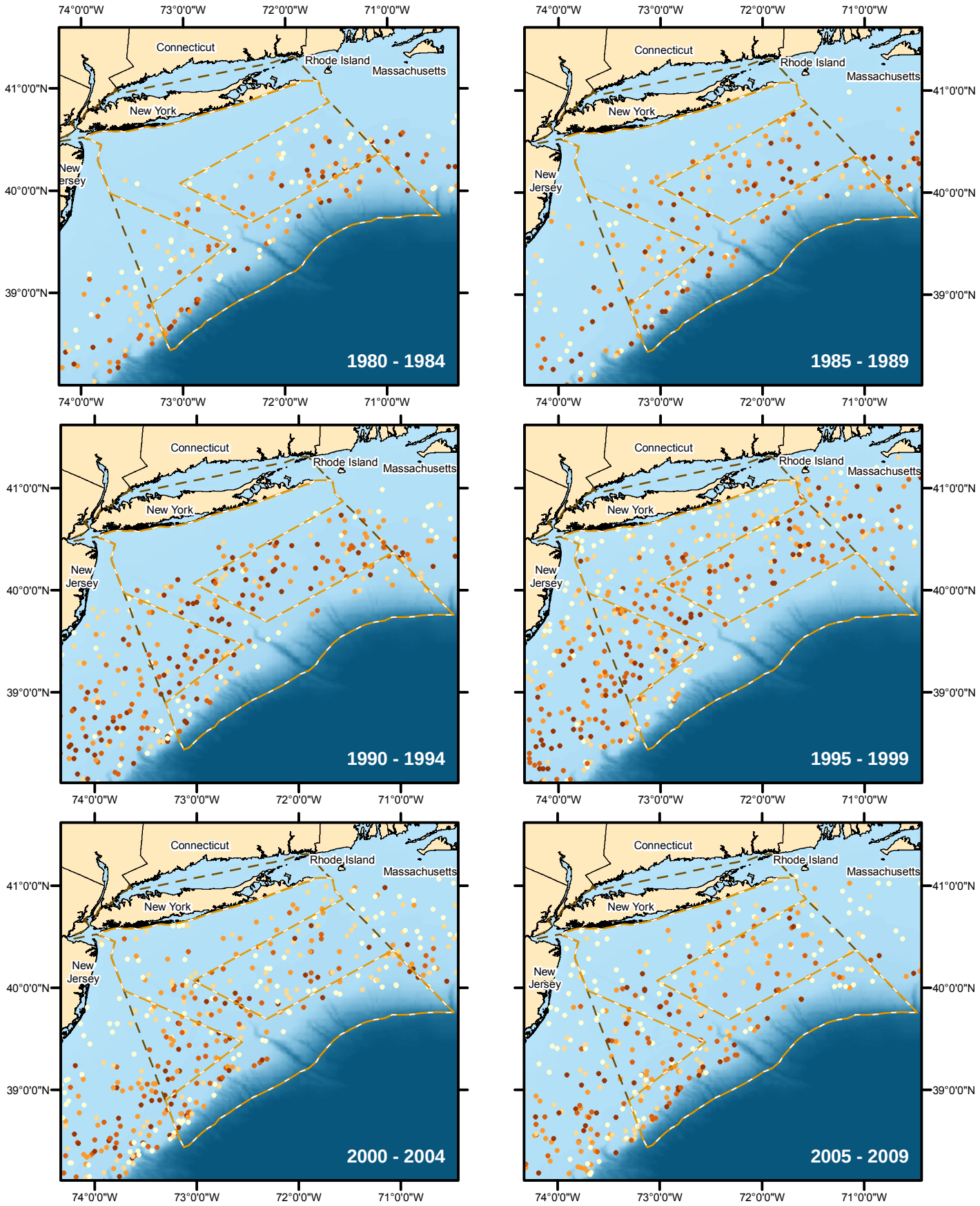
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Spiny Dogfish Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (16)

High (81+)

NY's Phase I CMP Amendment Boundary

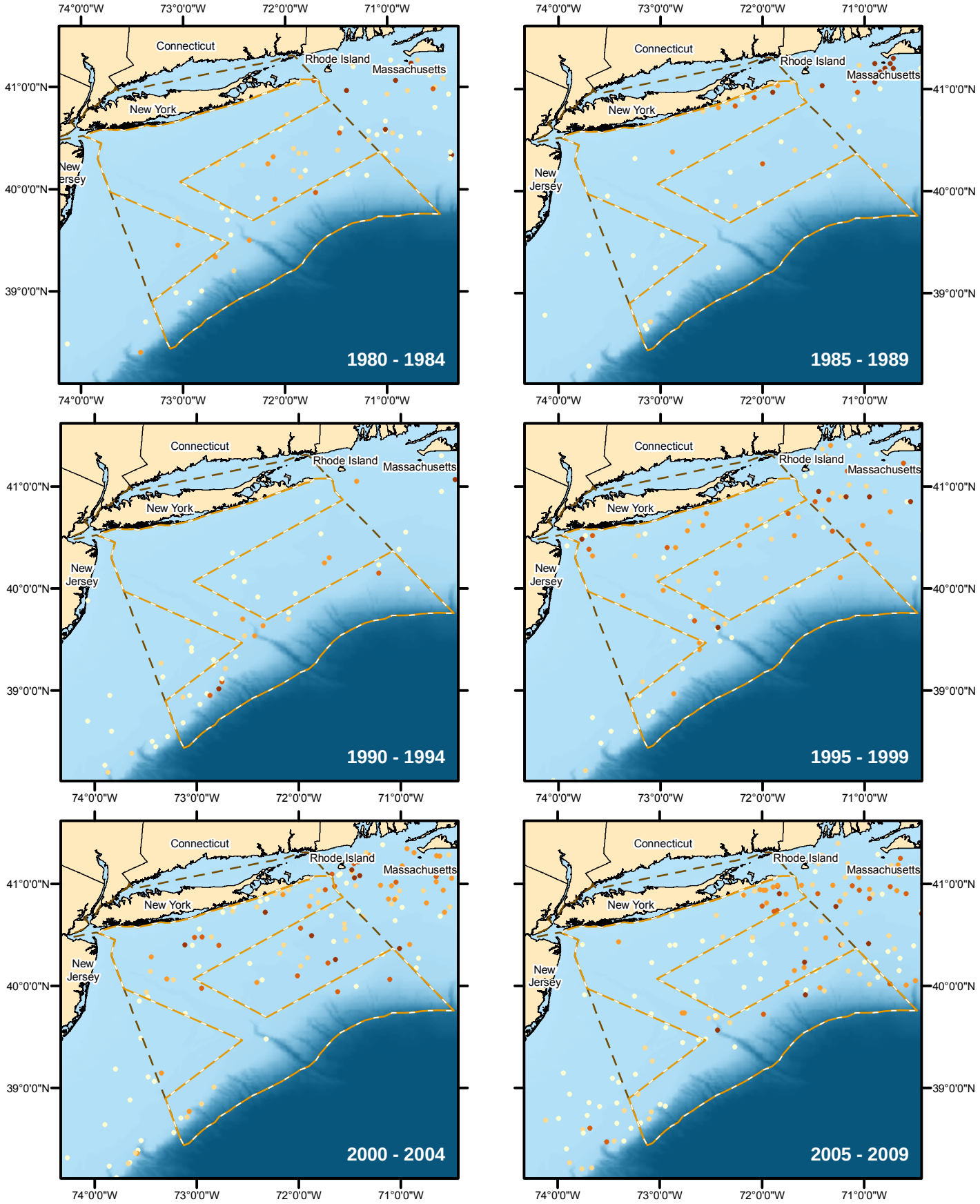
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Spiny Dogfish Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

Med (16)

High (81+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

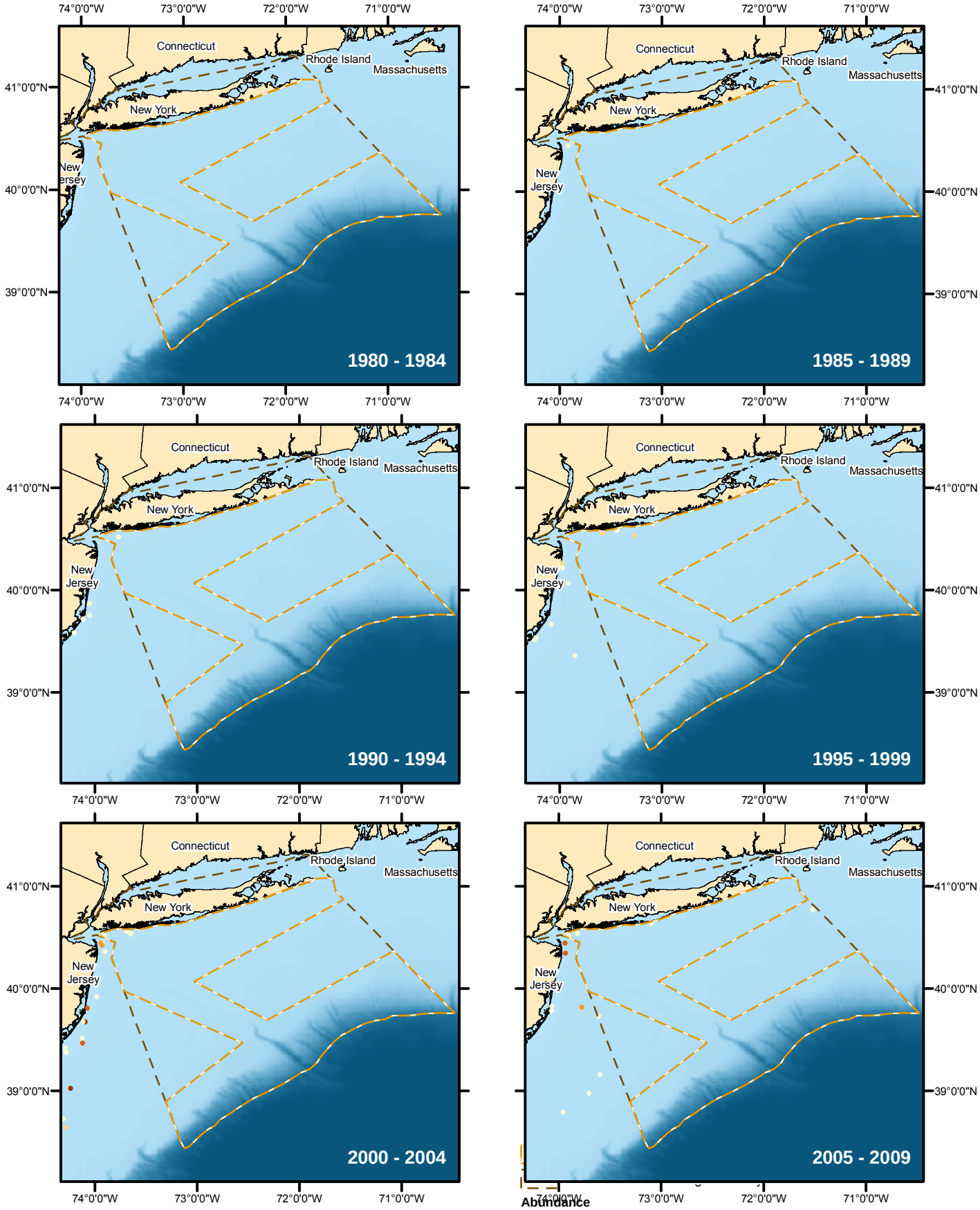
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Striped Bass Species Abundance

Spring, Adult 1980 - 2009

Abundance

Abundance

- Low (1)
- Med (3)
- High (11+)

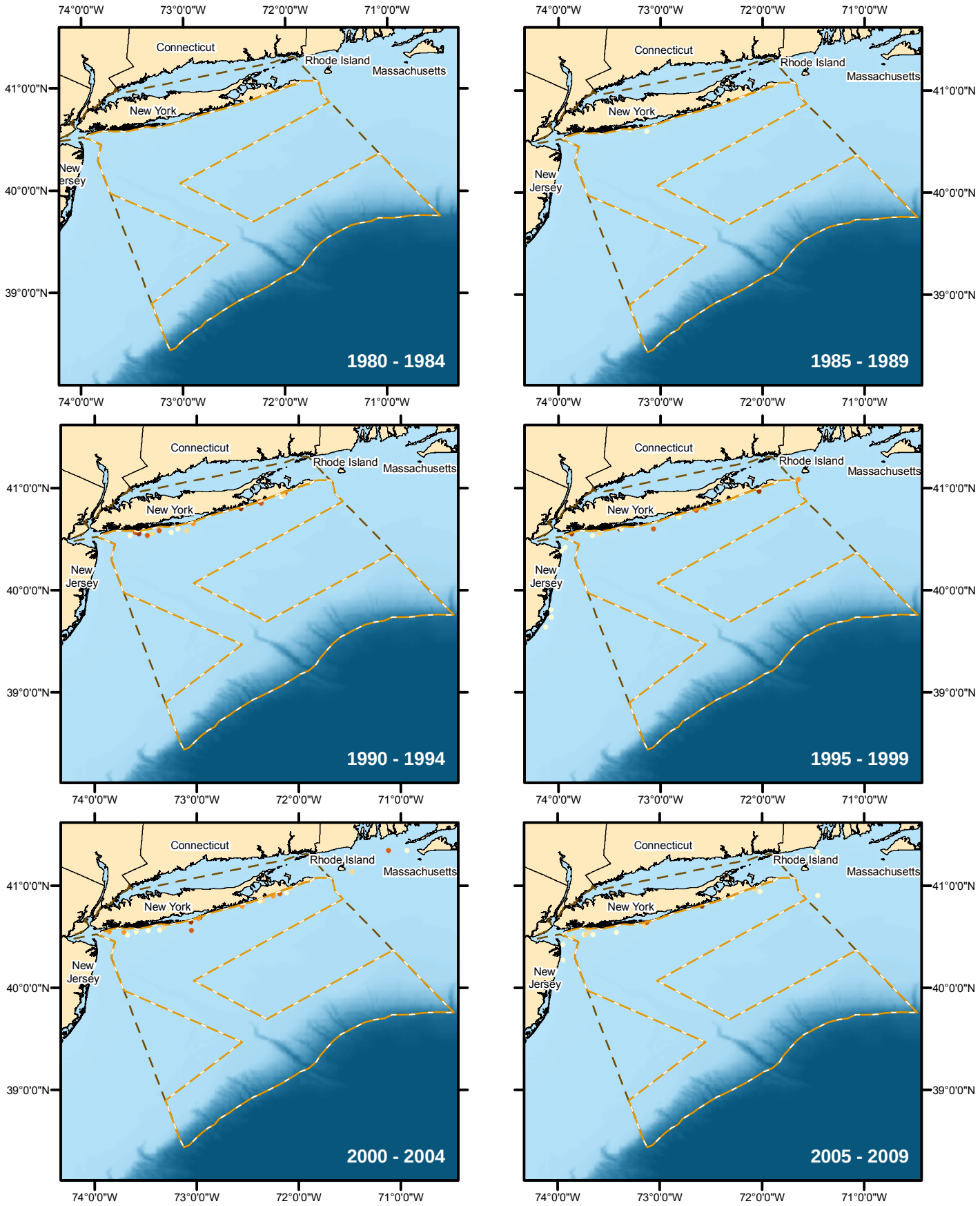
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Striped Bass Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (3)

High (11+)

NY's Phase I CMP Amendment Boundary

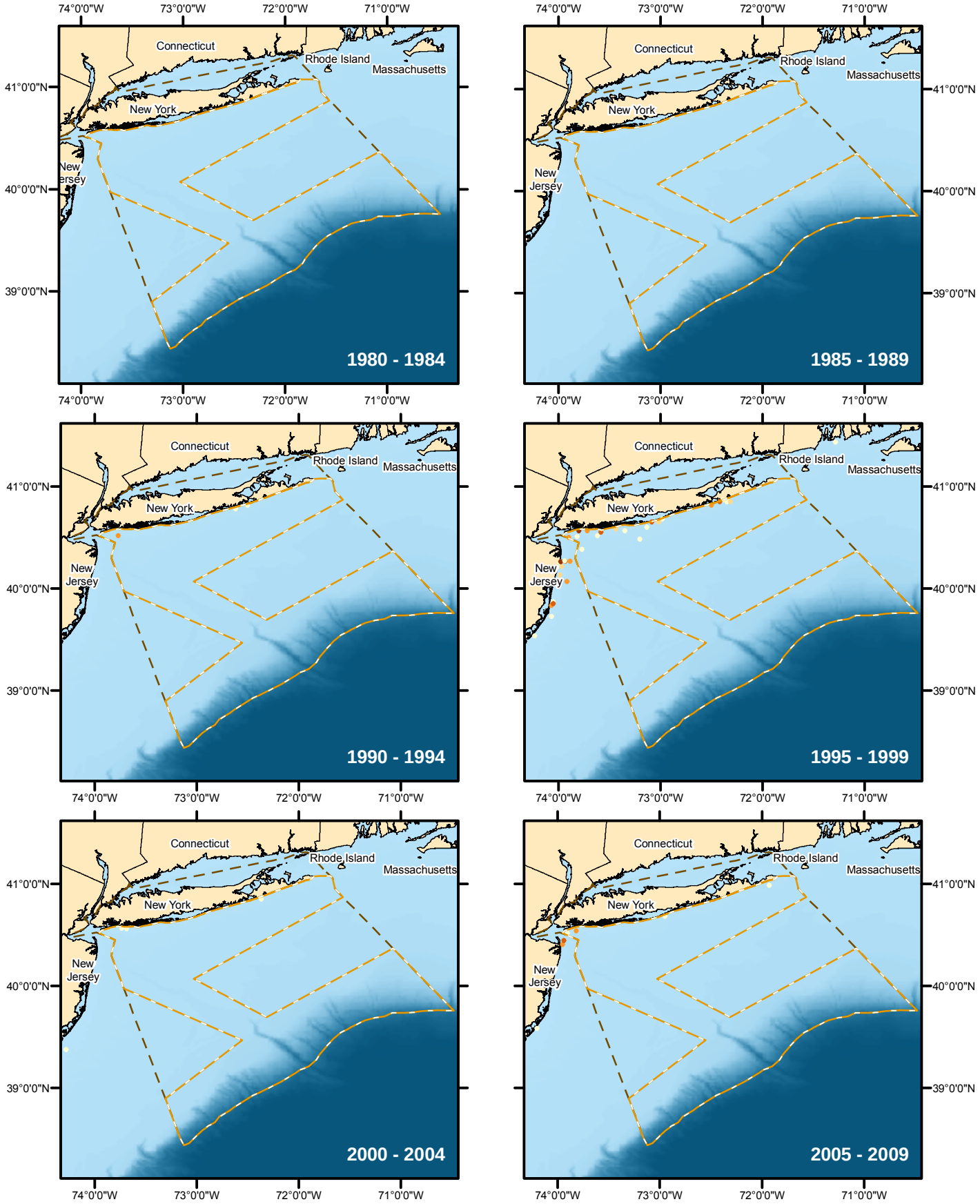
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Striped Bass Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (3)

High (11+)

NY's Phase I CMP Amendment Boundary

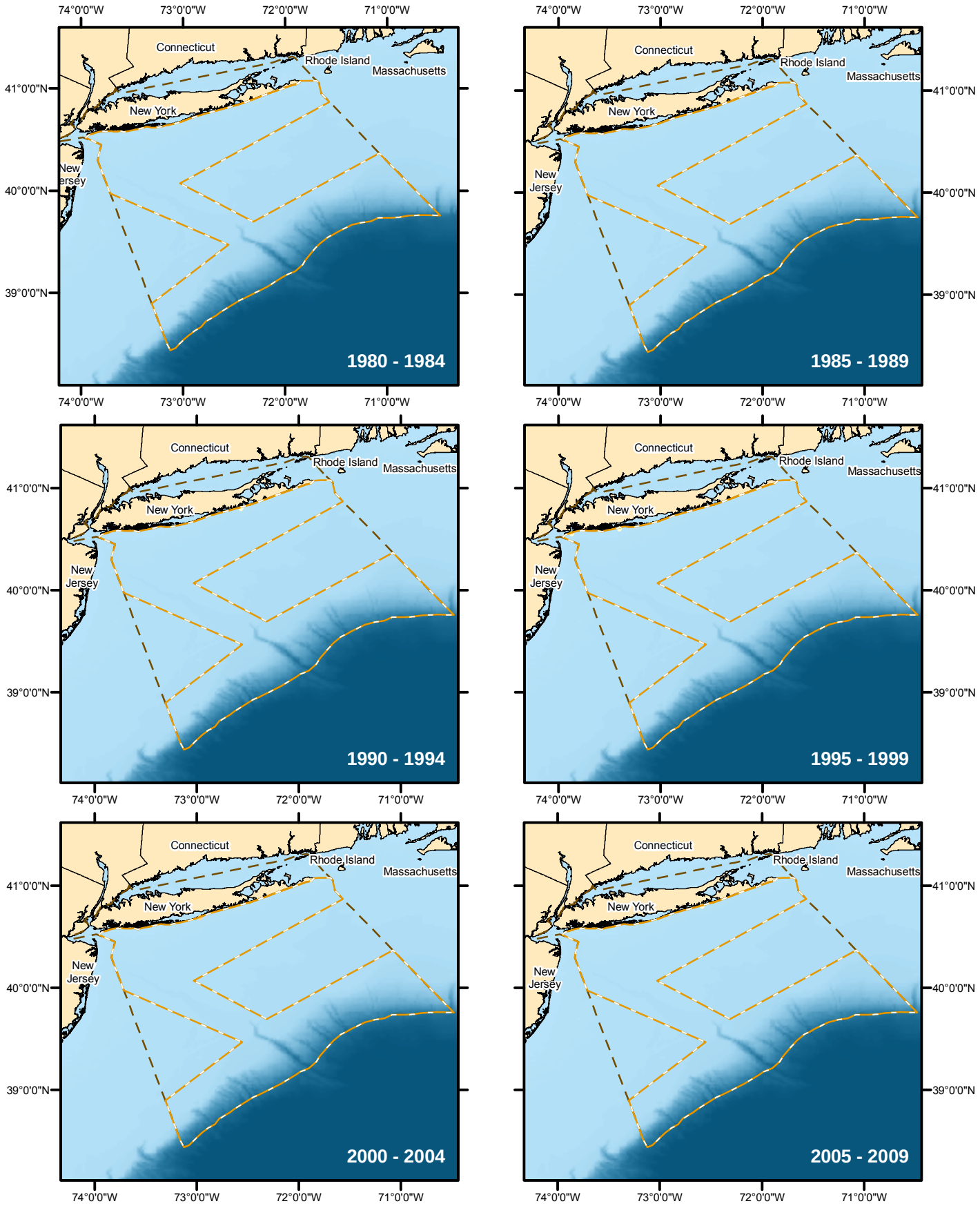
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Striped Bass Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

Med (3)

High (11+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

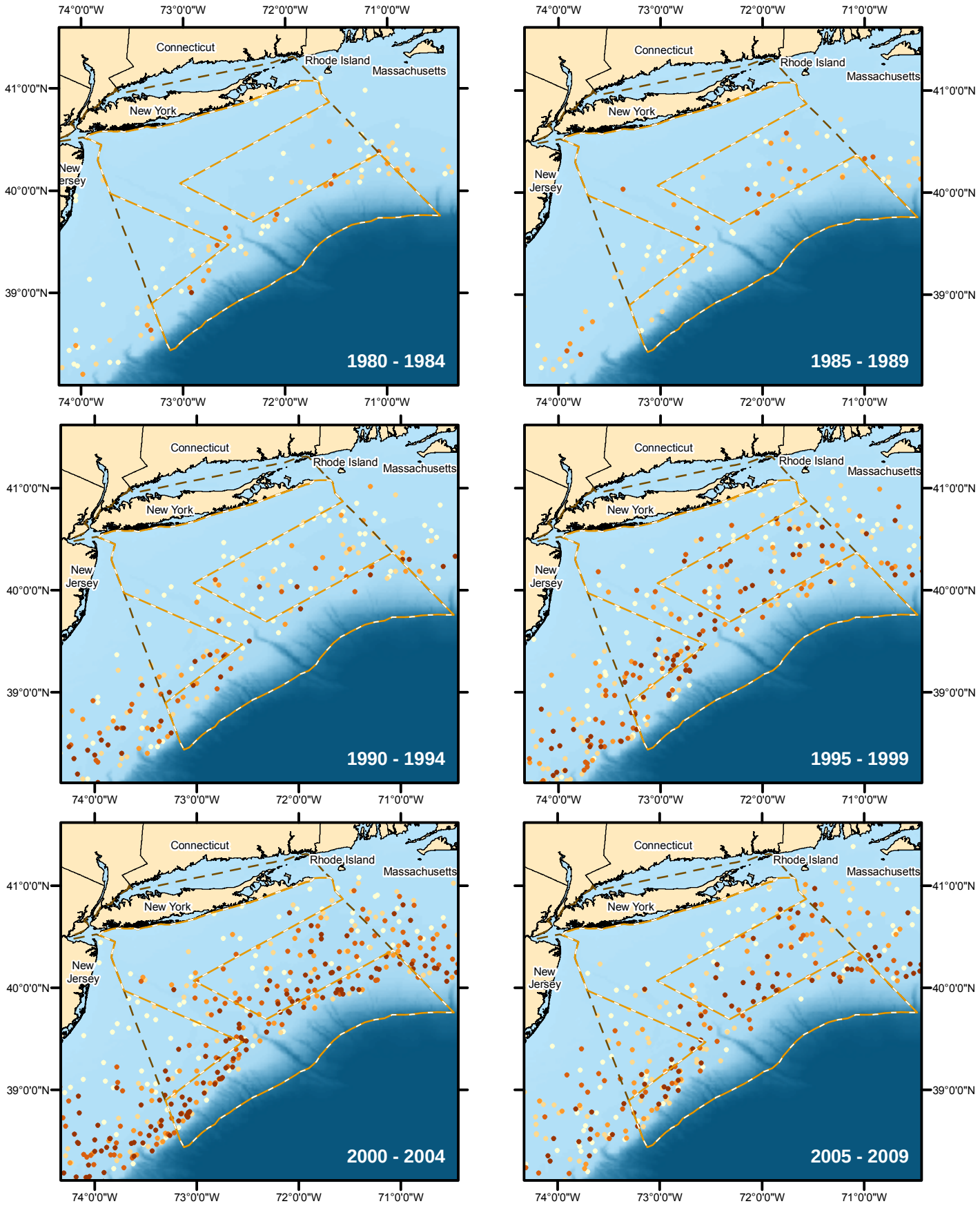
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Summer Flounder Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (5)

High (14+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

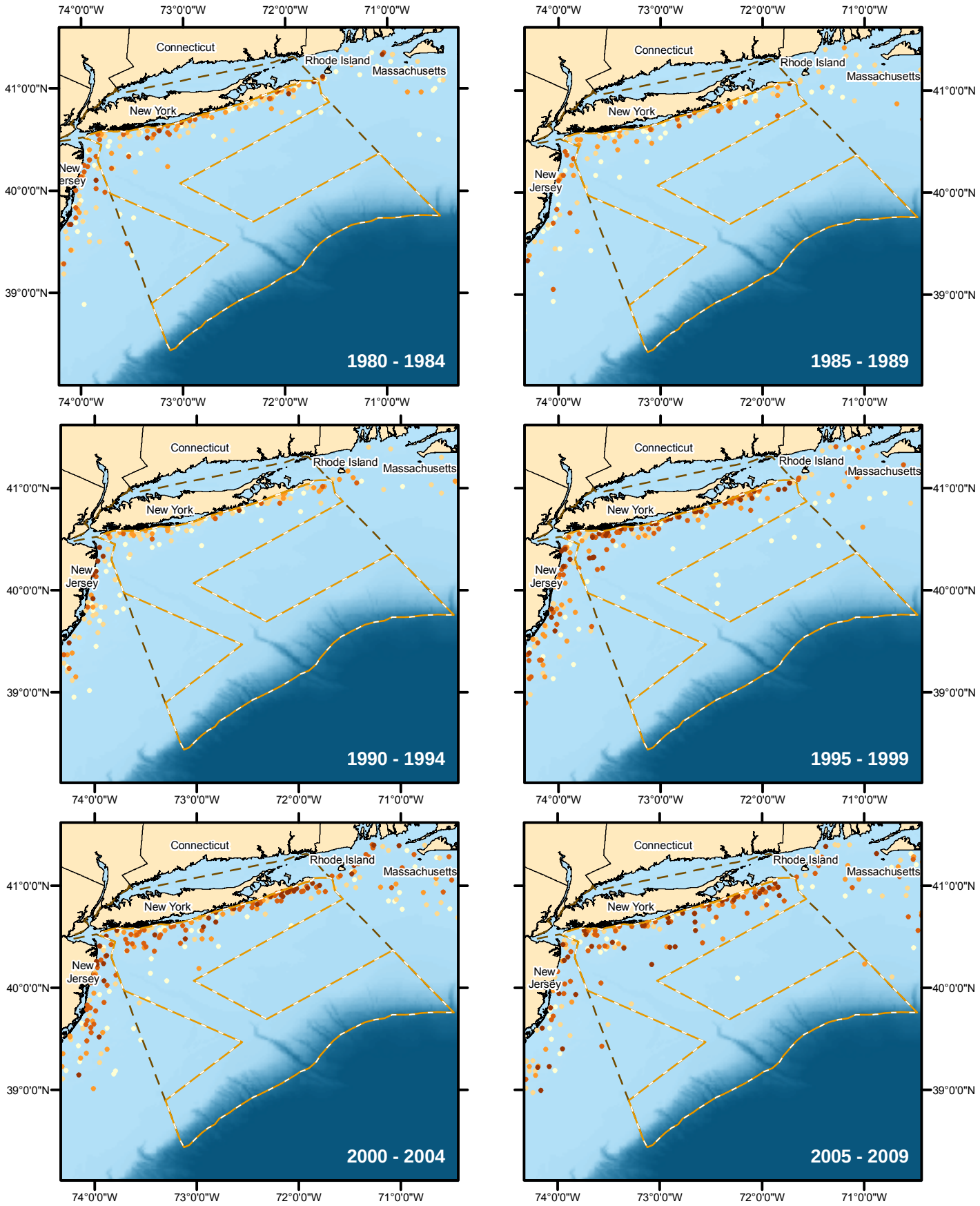
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



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Fall, Adult 1980 - 2009

Low (1)

Med (5)

High (14+)

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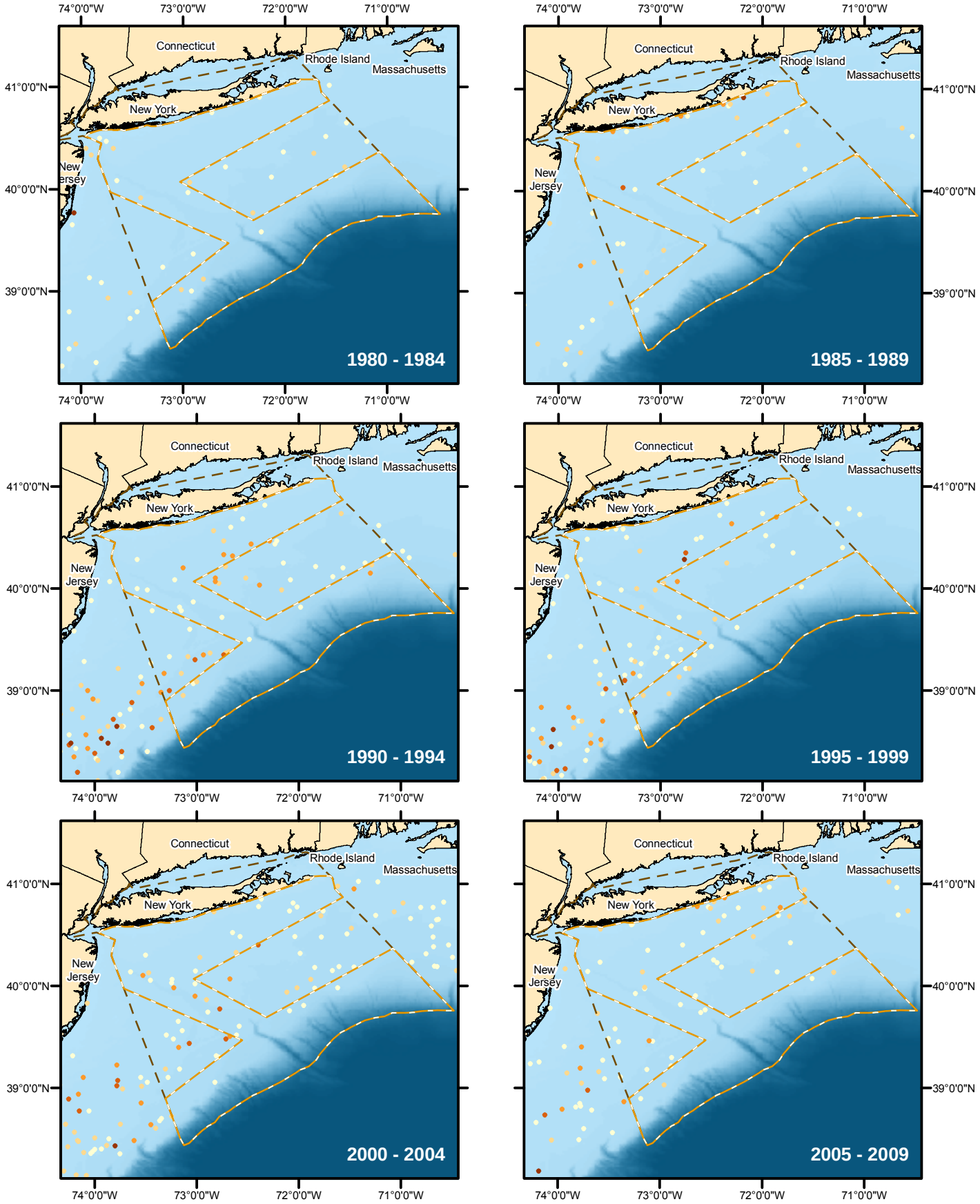
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Summer Flounder Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (5)

High (14+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

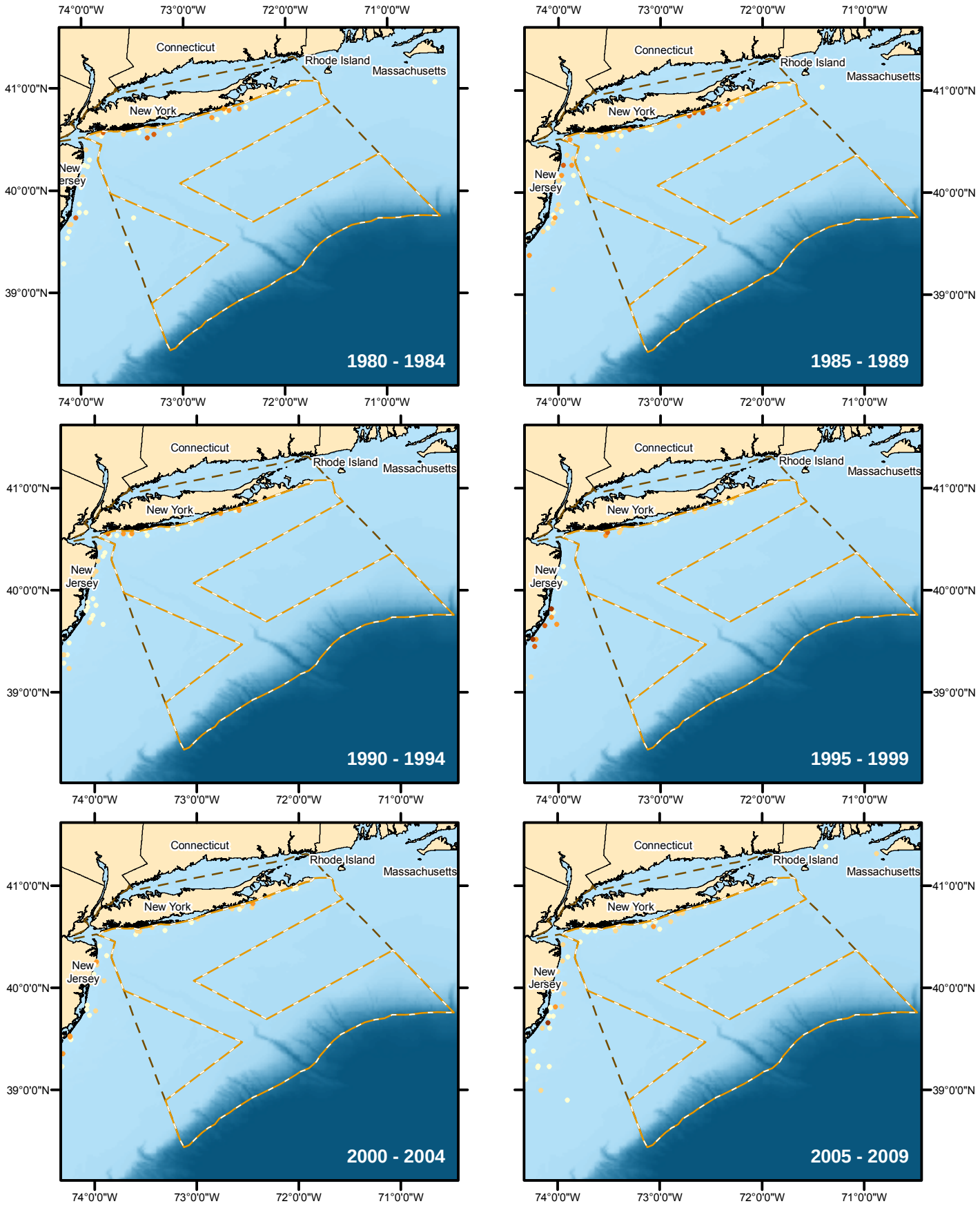
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Summer Flounder Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)
Med (5)
High (14+)

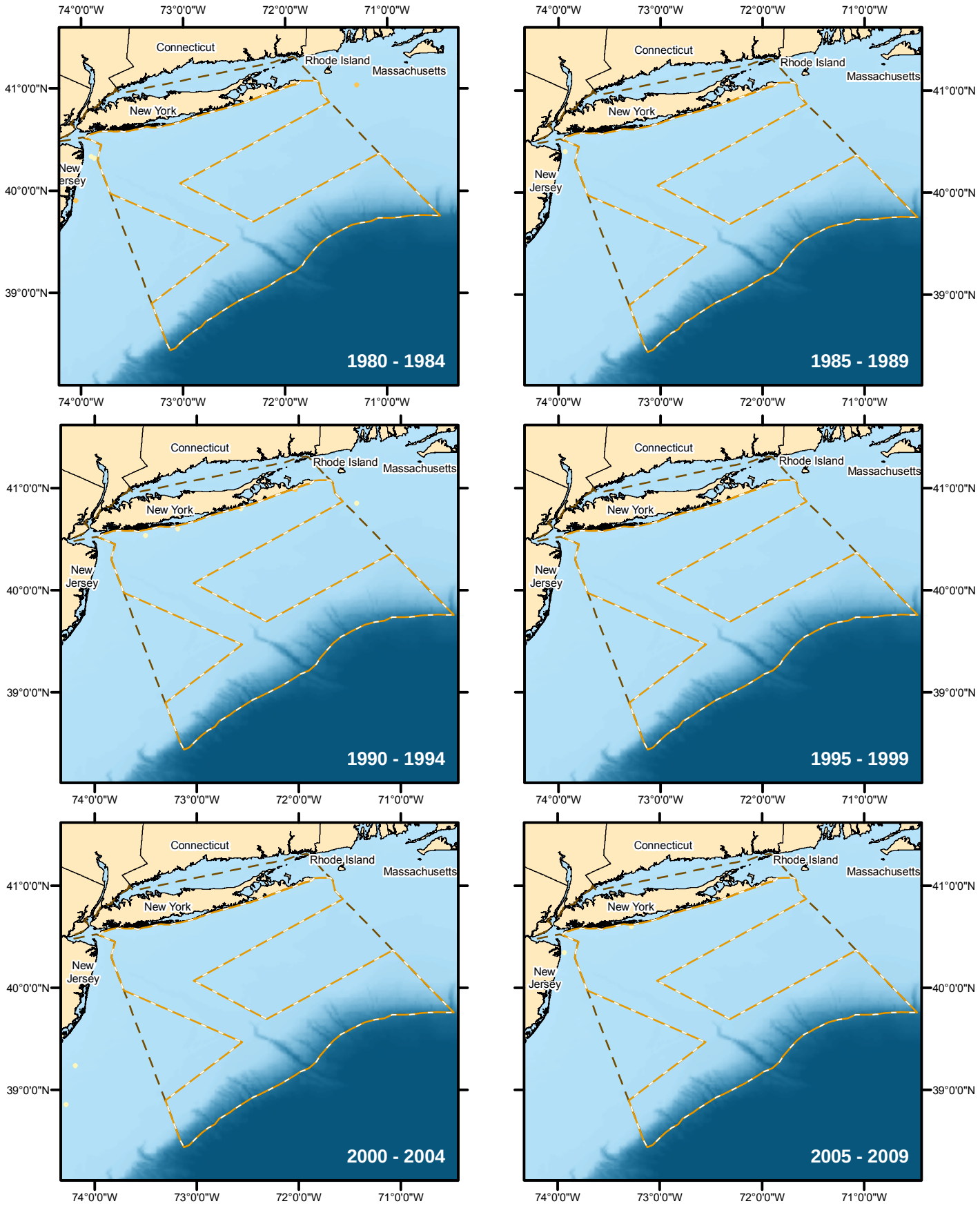
NY's Phase I CMP Amendment Boundary
NY's Offshore Planning Boundary

0 25 50 nm
0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Tautog Species Abundance

Spring, Adult 1980 - 2009

Low (1)

High (3+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

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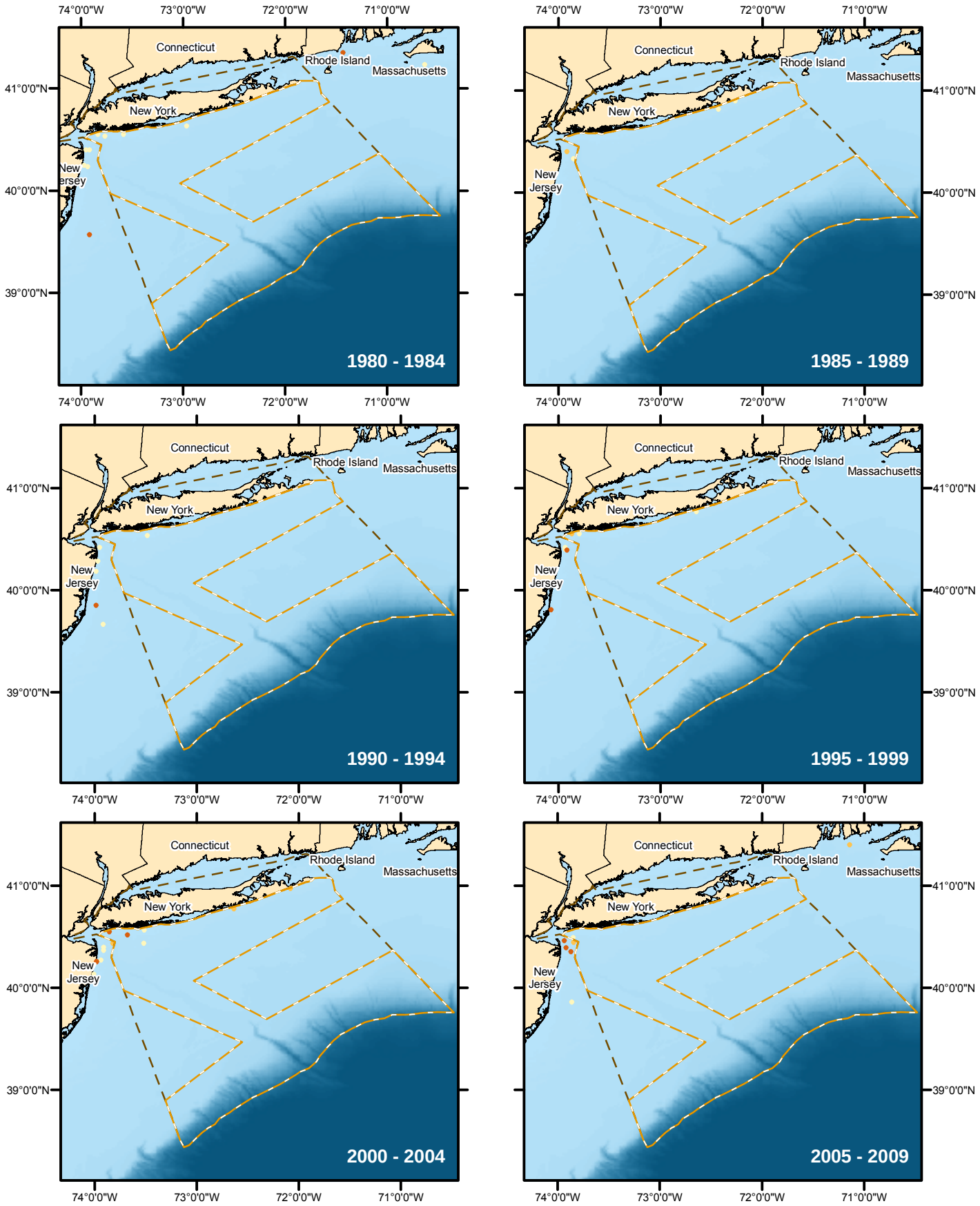


Tautog Species Abundance

Fall, Adult 1980 - 2009

Low (1)
High (3+)

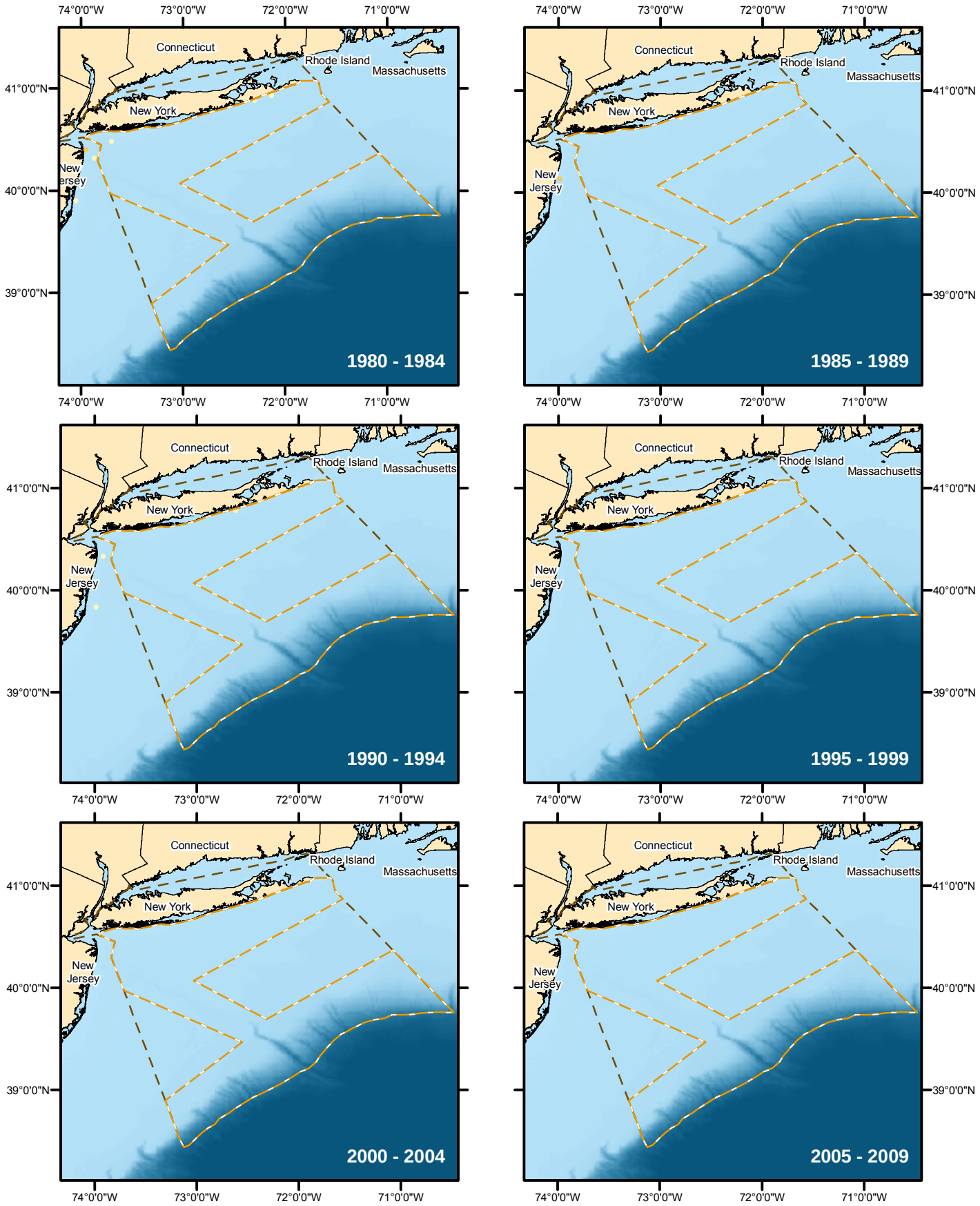
NY's Phase I CMP Amendment Boundary
NY's Offshore Planning Boundary

0 25 50 nm
0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Tautog Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

High (3+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

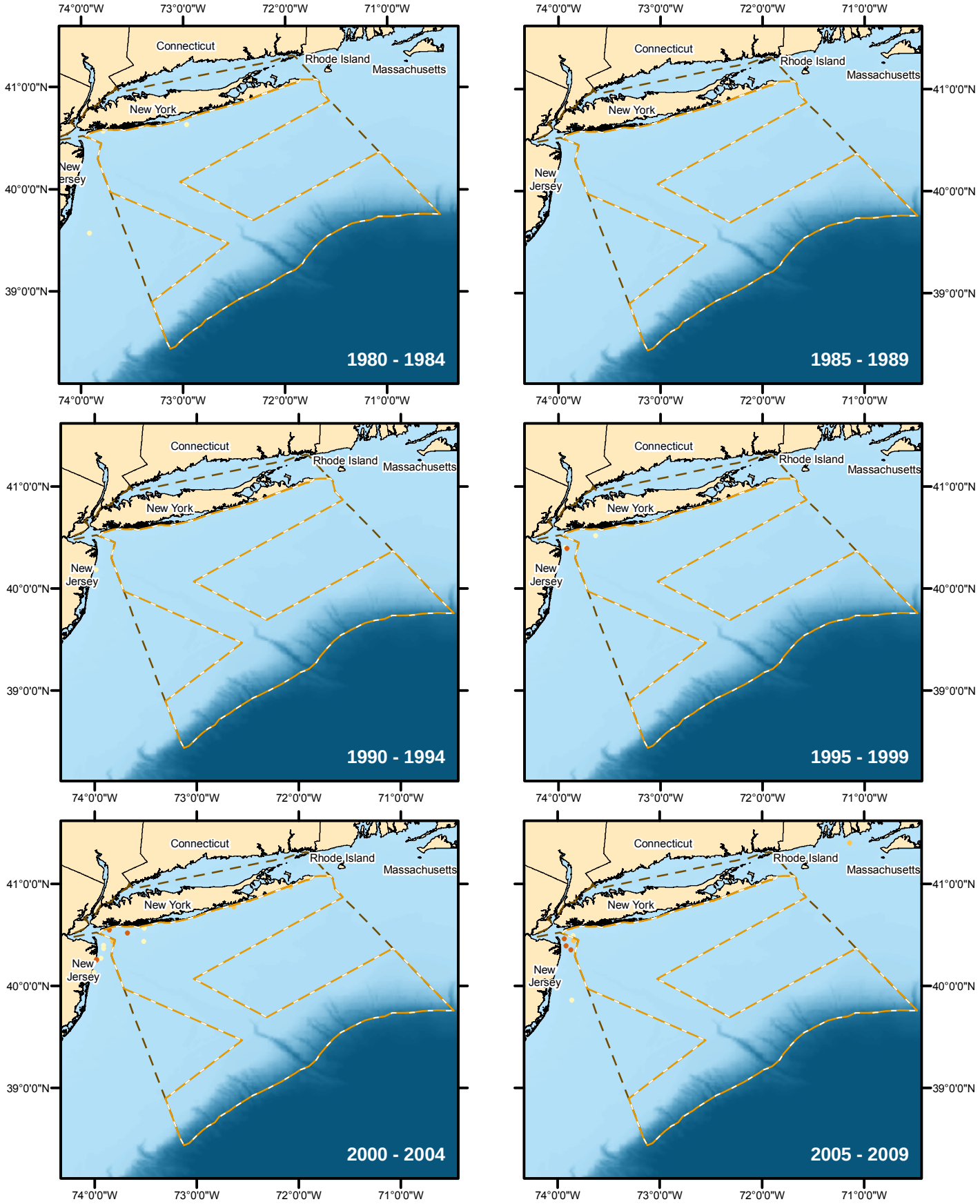
0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC

NEW YORK STATE DOS DEPARTMENT OF STATE



Tautog Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

High (3+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

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0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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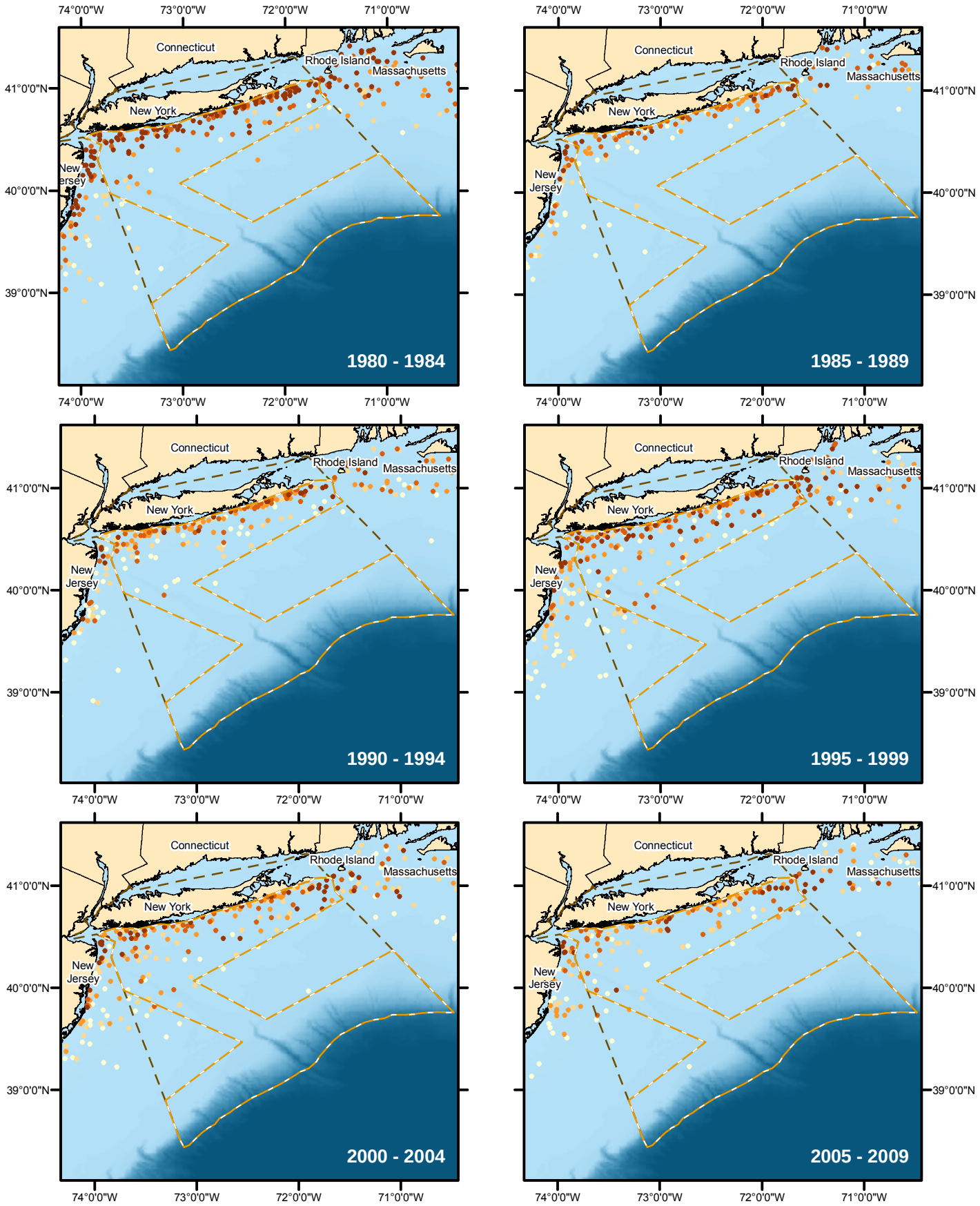


Winter Flounder Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (5)

High (14+)

NY's Phase I CMP Amendment Boundary

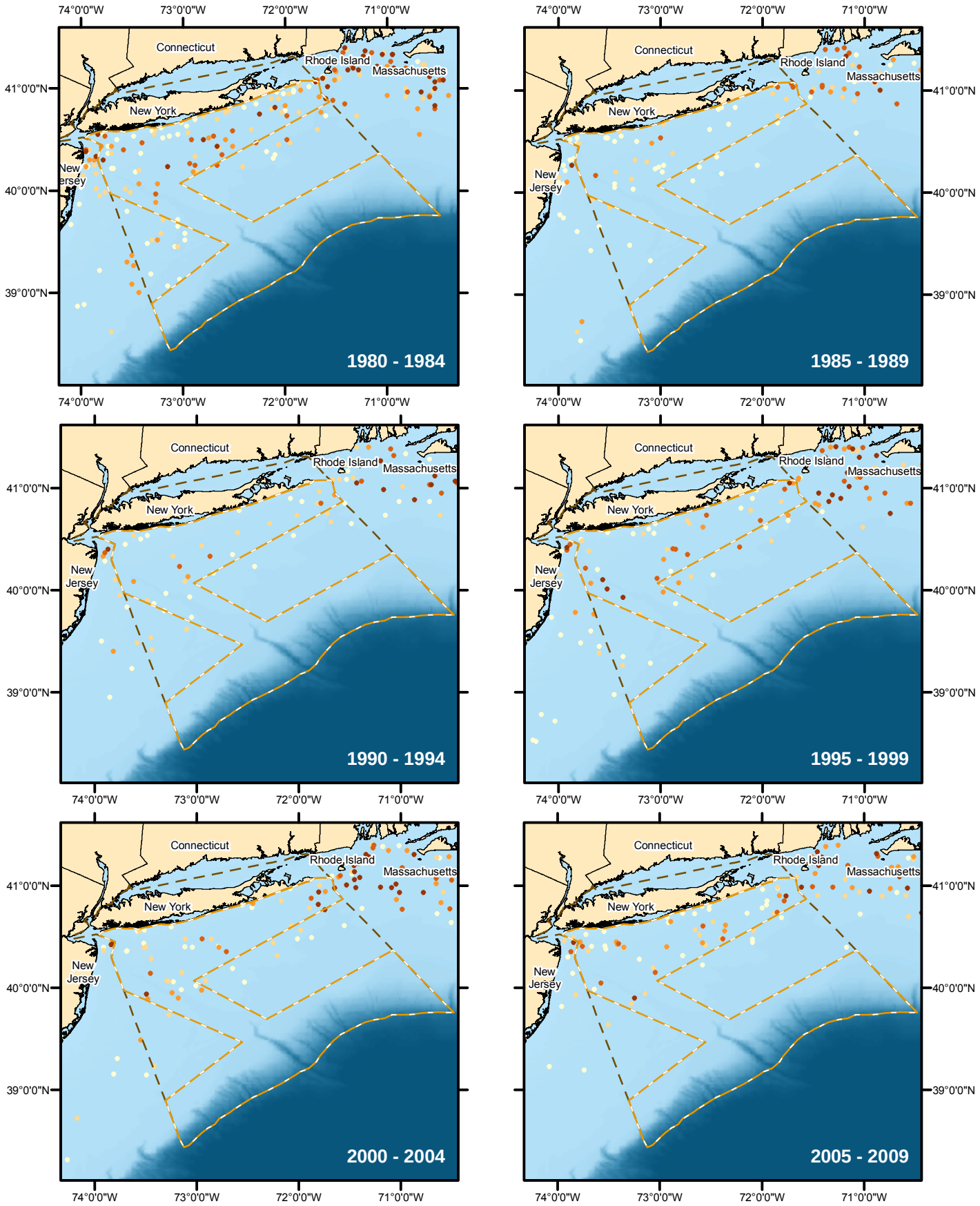
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Winter Flounder Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (5)

High (14+)

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NY's Offshore Planning Boundary

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Planning boundaries, NY Department of State

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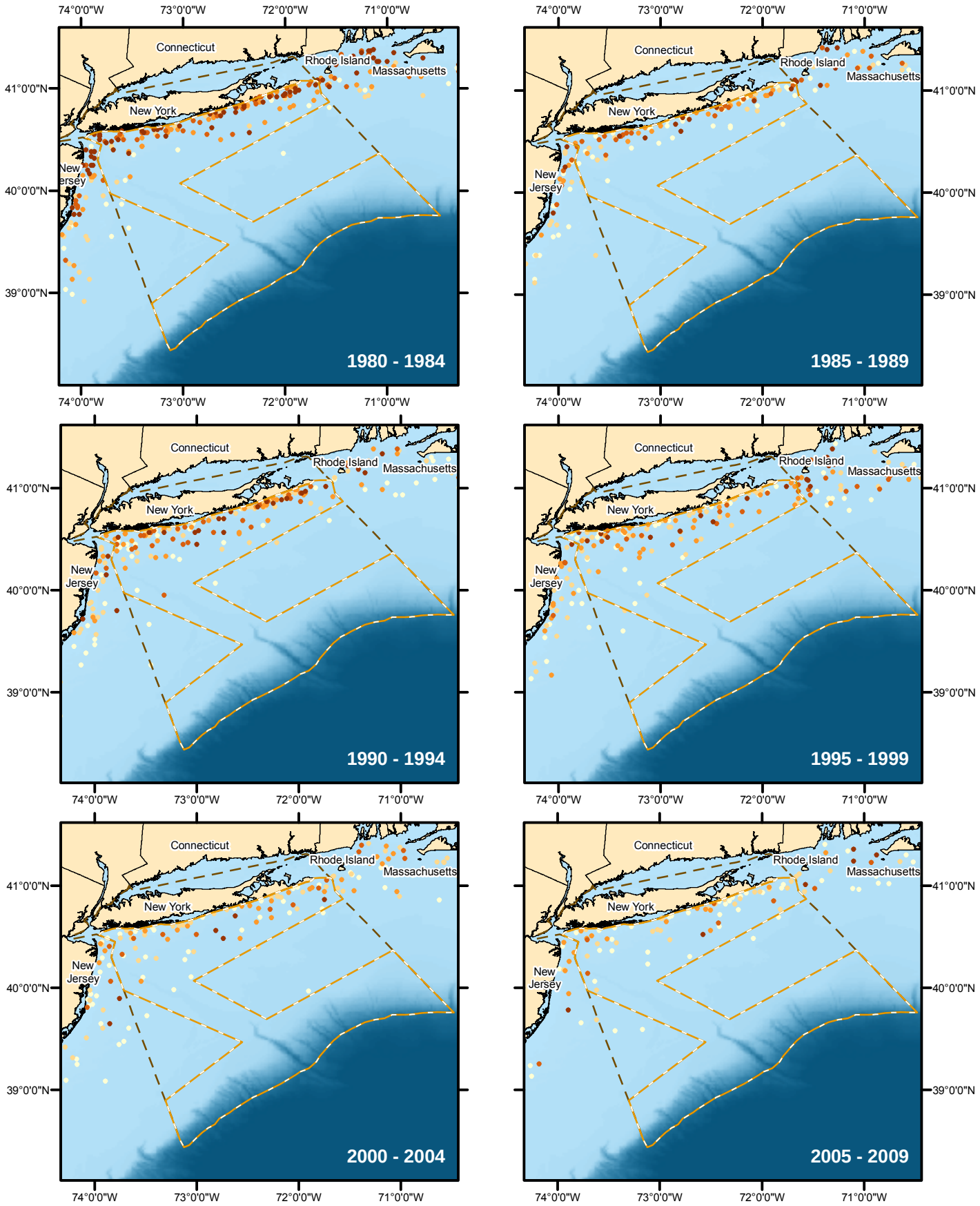

Winter Flounder Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (5)

High (14+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

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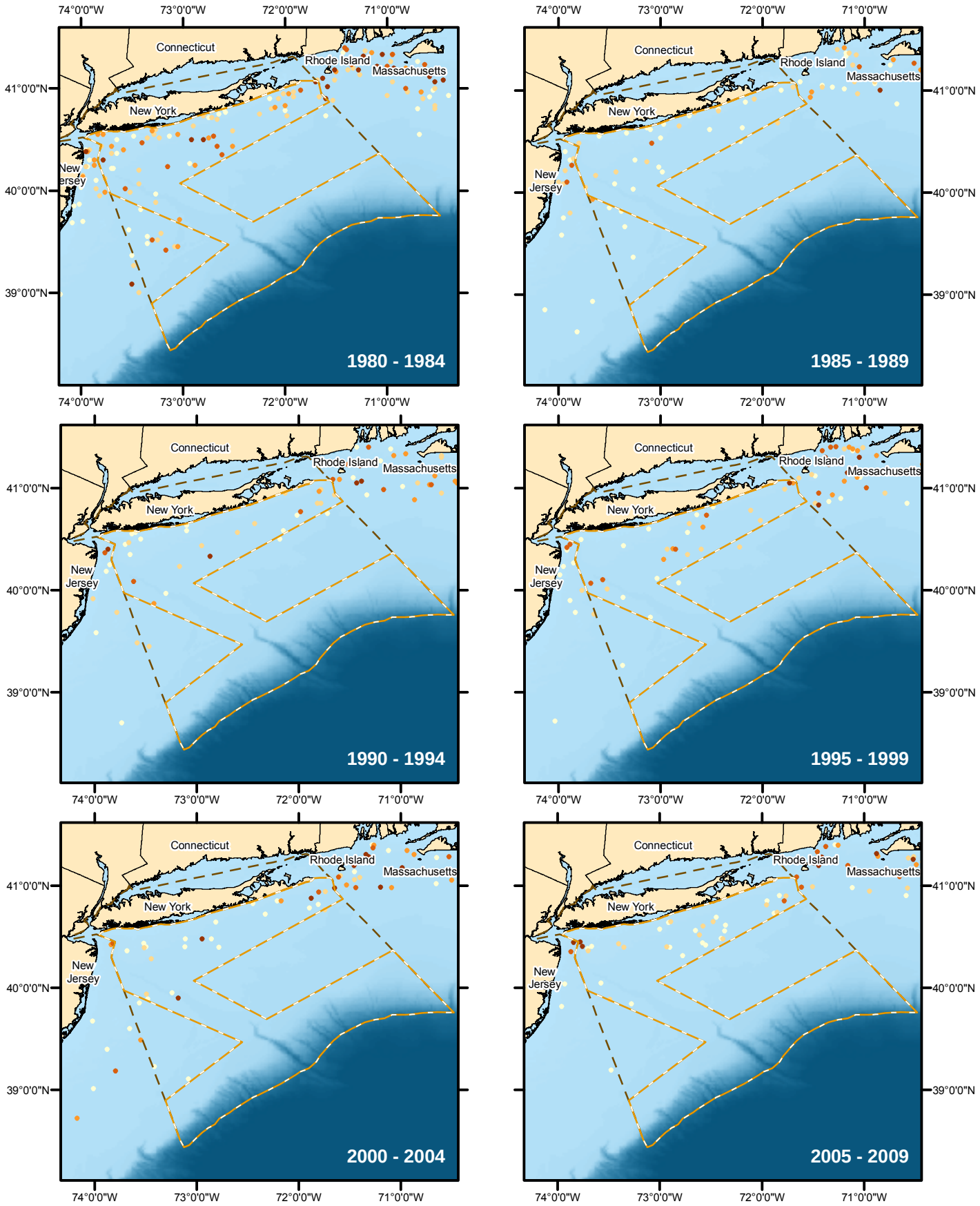

Winter Flounder Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

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NY's Offshore Planning Boundary

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Planning boundaries, NY Department of State

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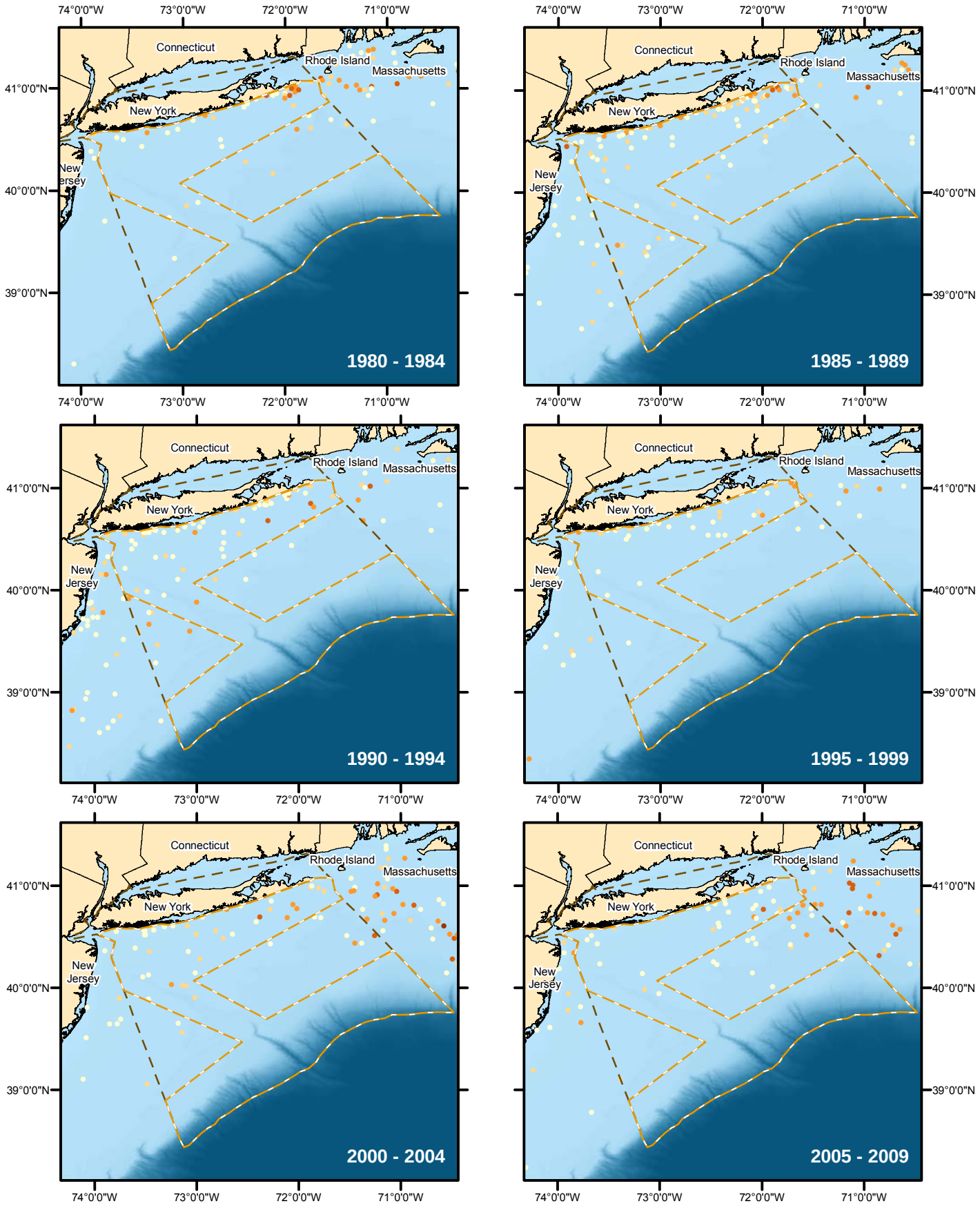


Winter Skate Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (5)

High (26+)

NY's Phase I CMP Amendment Boundary

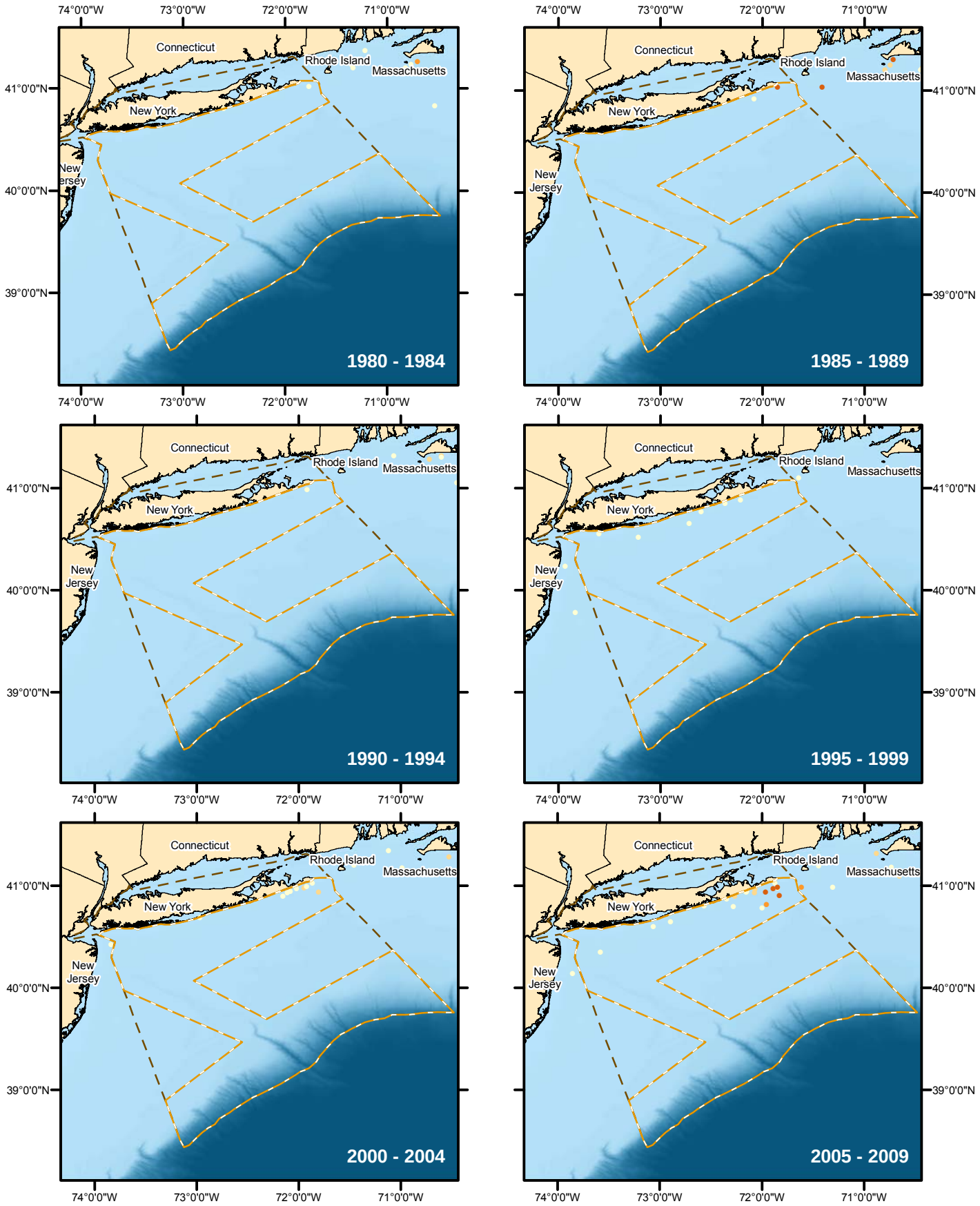
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Winter Skate Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (5)

High (26+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

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Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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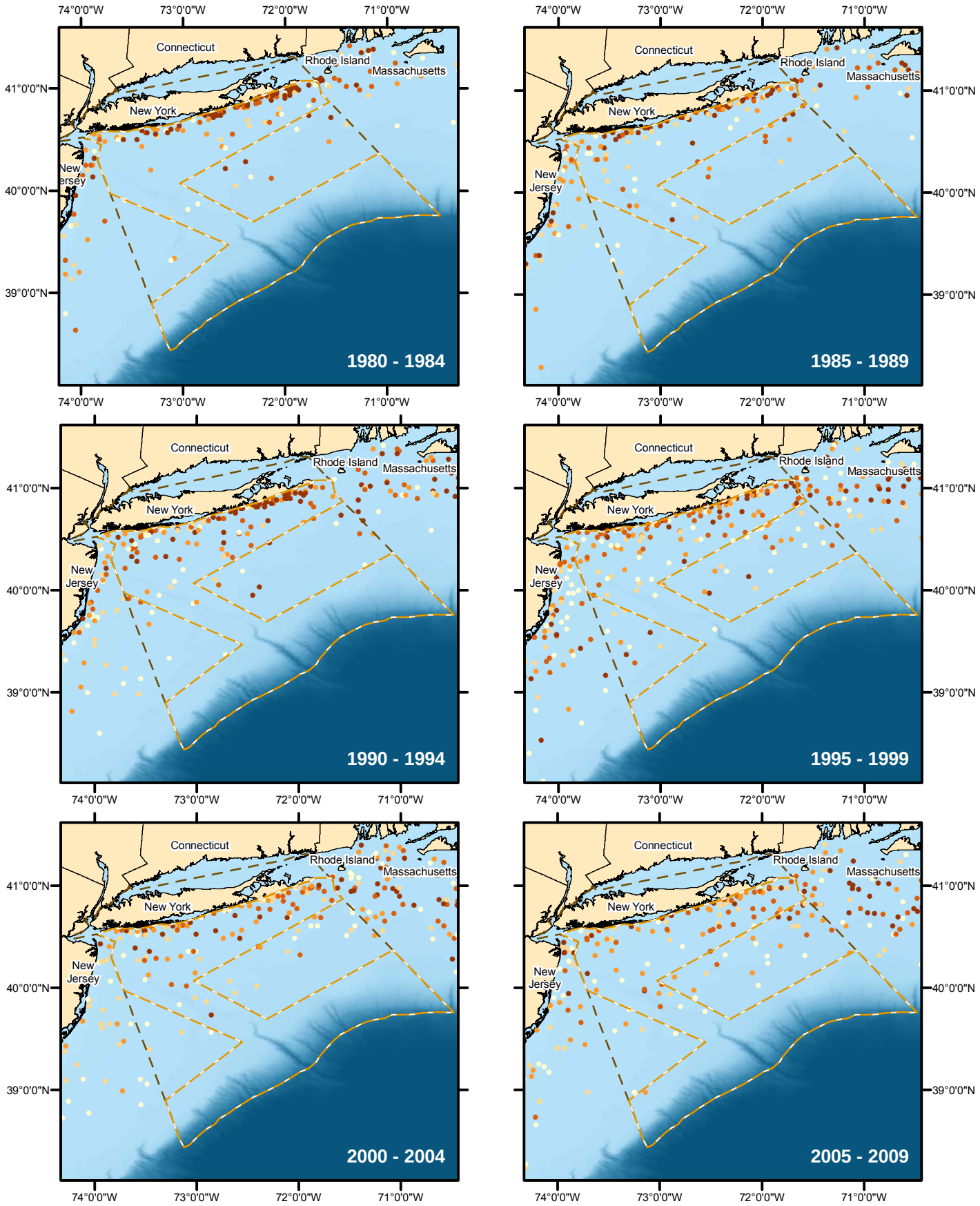

Winter Skate Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (5)

High (26+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

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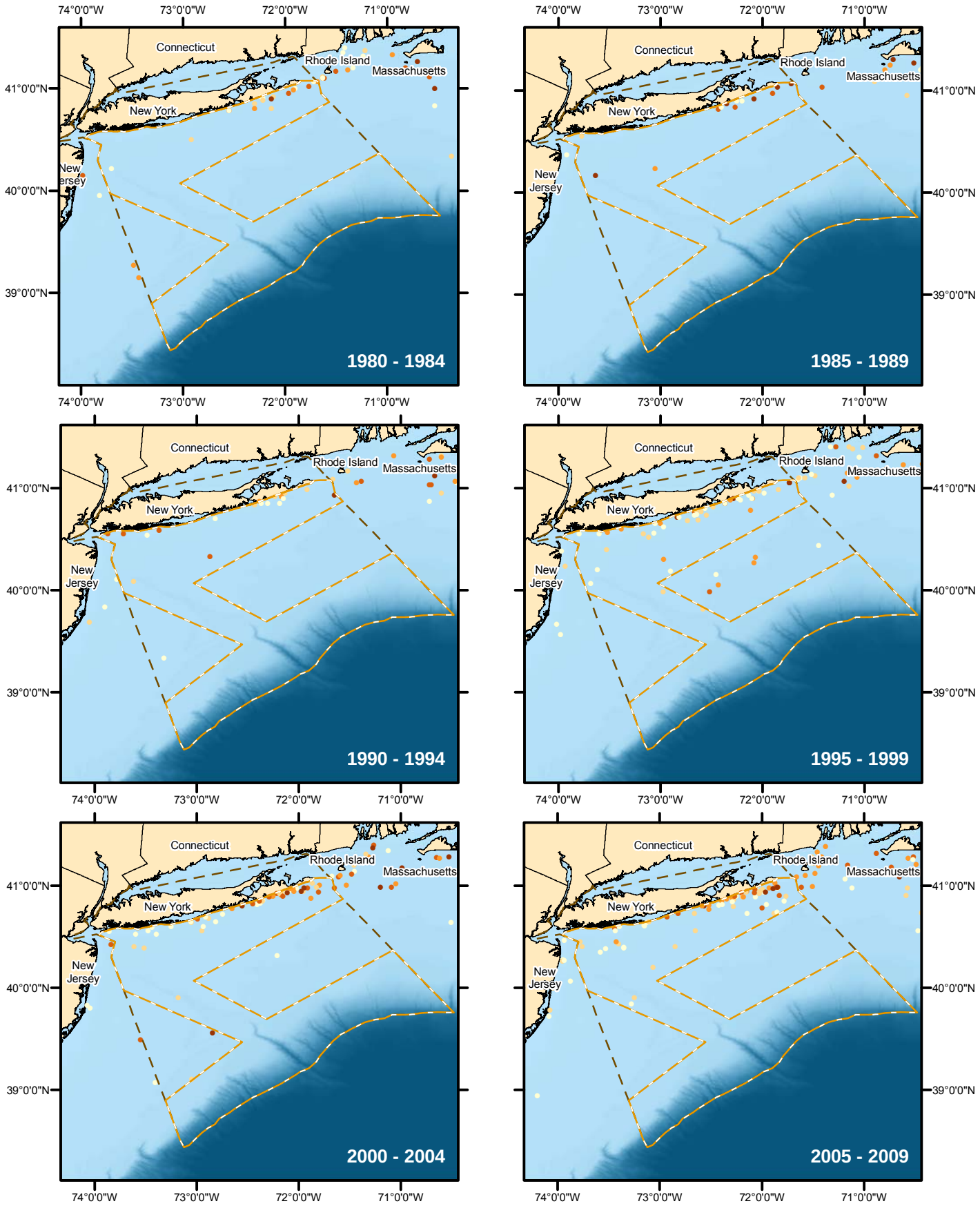

Winter Skate Species Abundance

Fall, Juvenile 1980 - 2009

Low (1)

Med (5)

High (26+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

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Planning boundaries, NY Department of State

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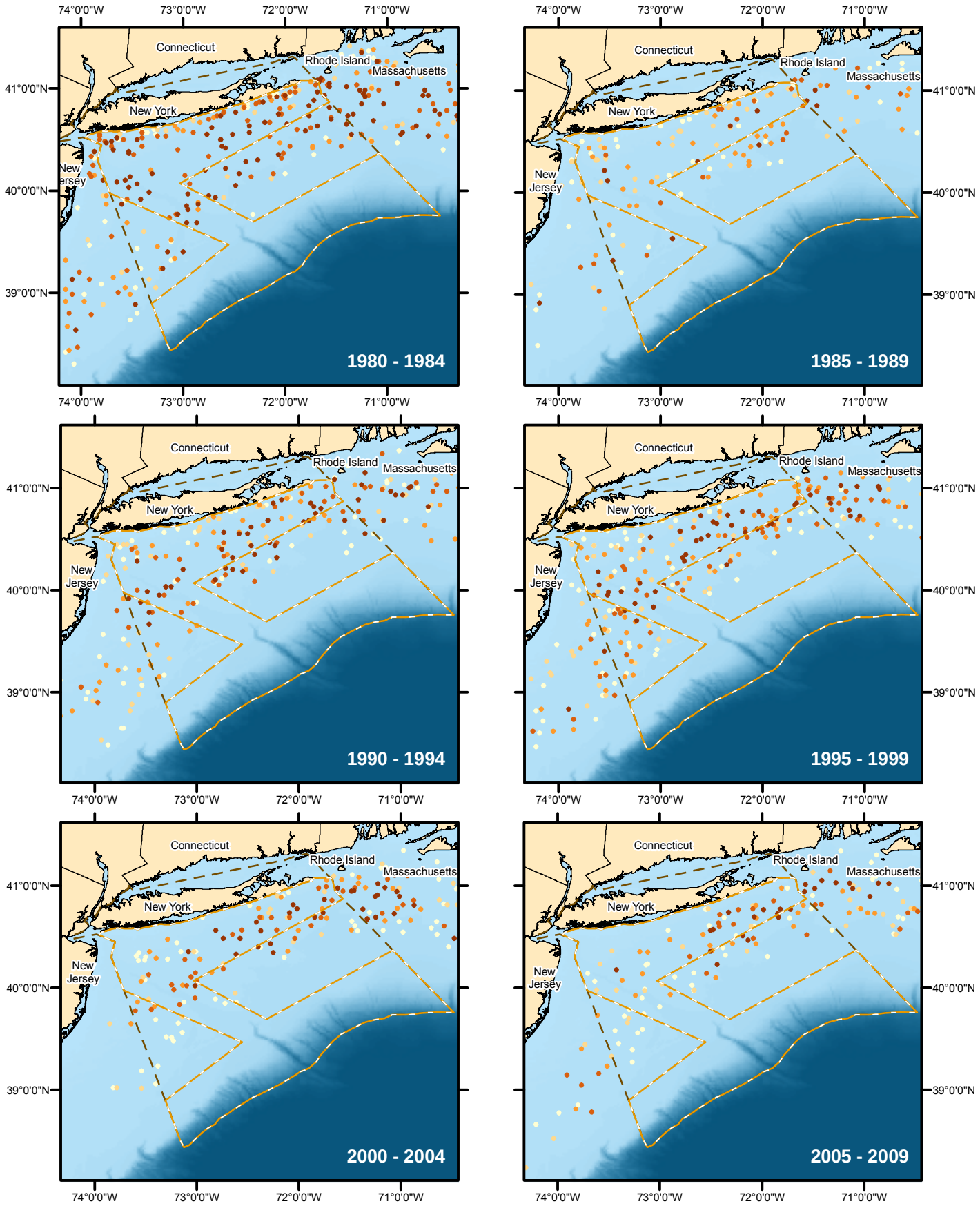


Yellowtail Flounder Species Abundance

Spring, Adult 1980 - 2009

Low (1)

Med (5)

High (18+)

NY's Phase I CMP Amendment Boundary

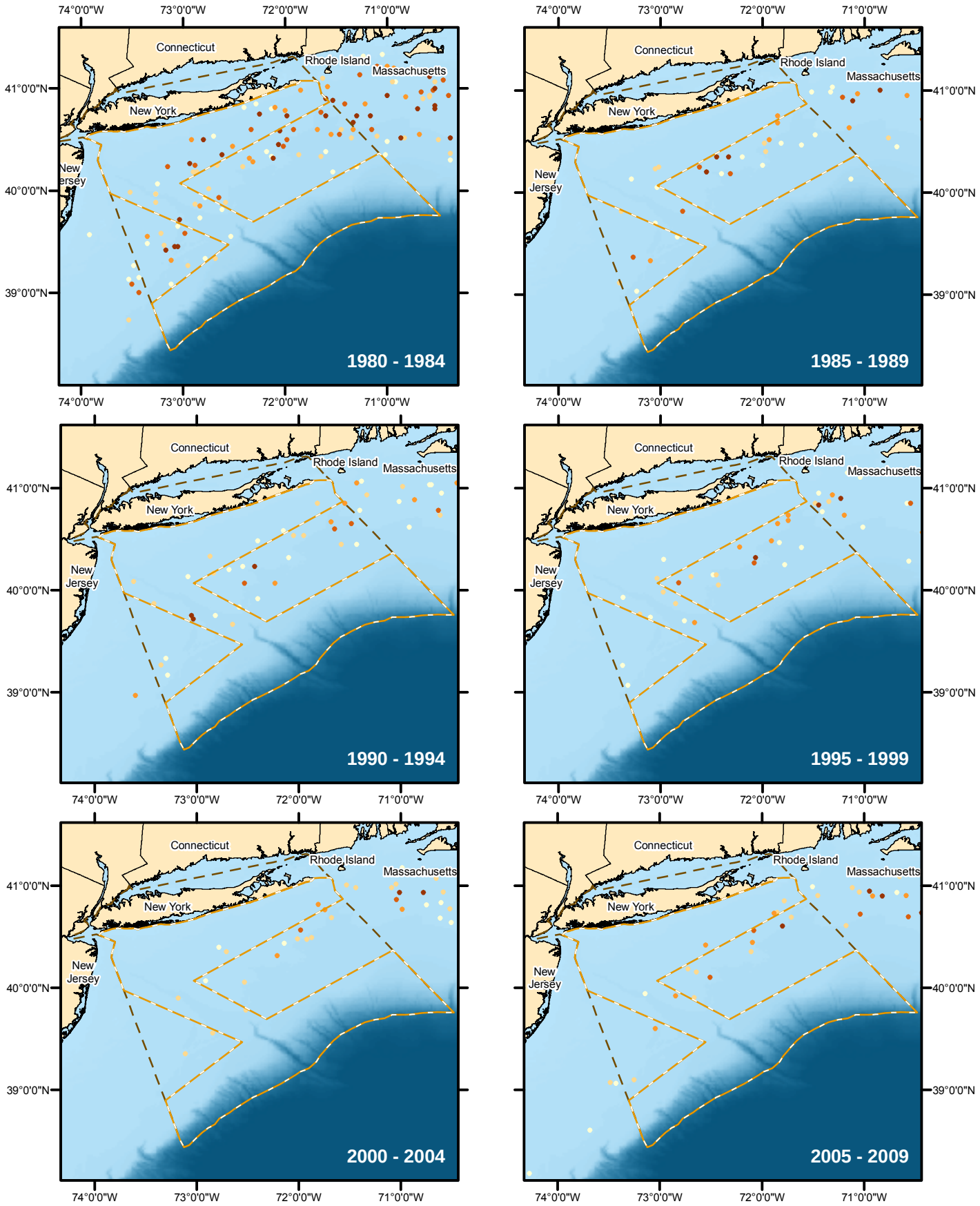
NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

STONE ENVIRONMENTAL INC



Yellowtail Flounder Species Abundance

Fall, Adult 1980 - 2009

Low (1)

Med (5)

High (18+)

NY's Phase I CMP Amendment Boundary

NY's Offshore Planning Boundary

0 25 50 nm

0 50 100 km

Sources: NOAA NEFSC Bottom Trawl Survey, 1980 to 2009;
Planning boundaries, NY Department of State

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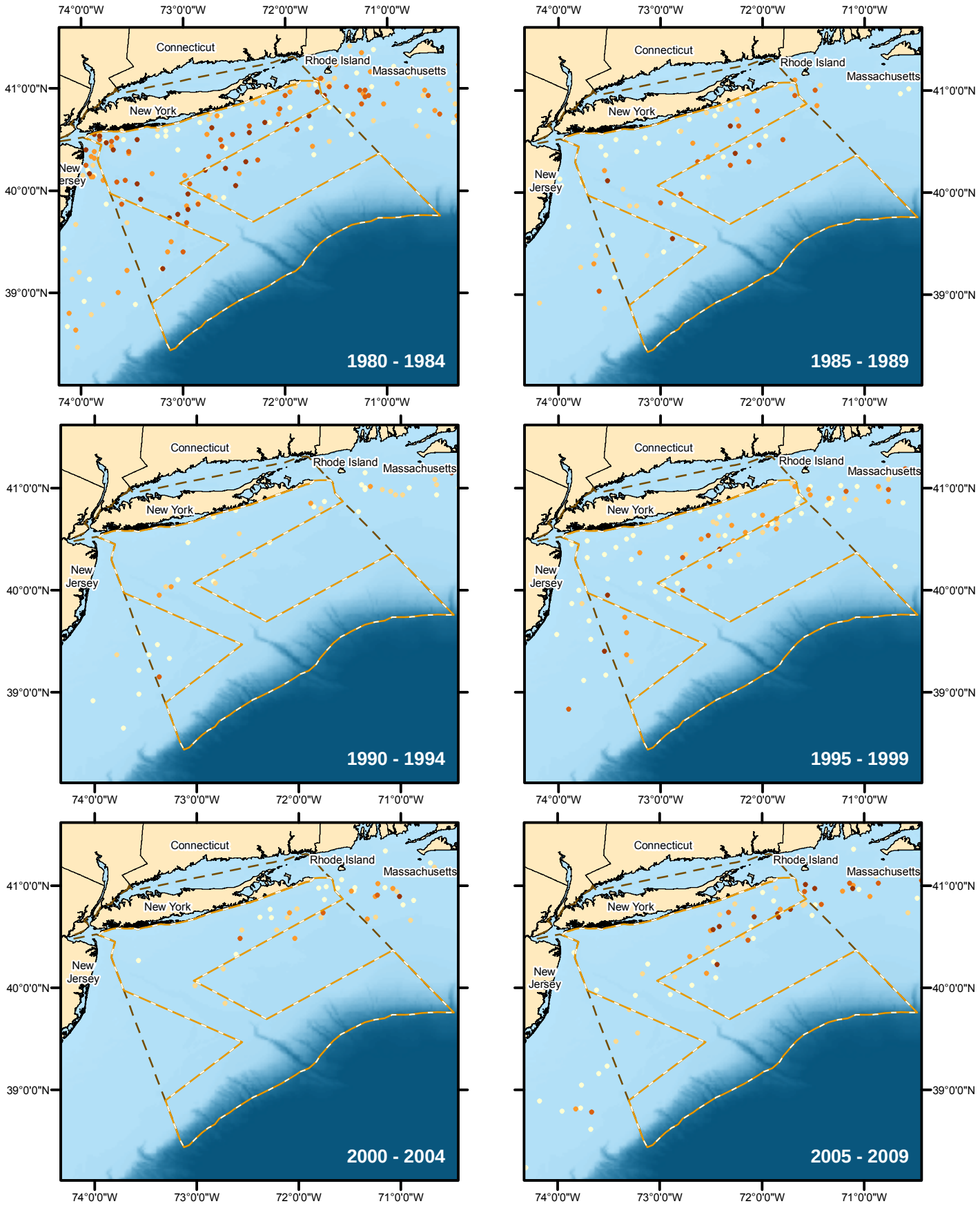

Yellowtail Flounder Species Abundance

Spring, Juvenile 1980 - 2009

Low (1)

Med (5)

High (18+)

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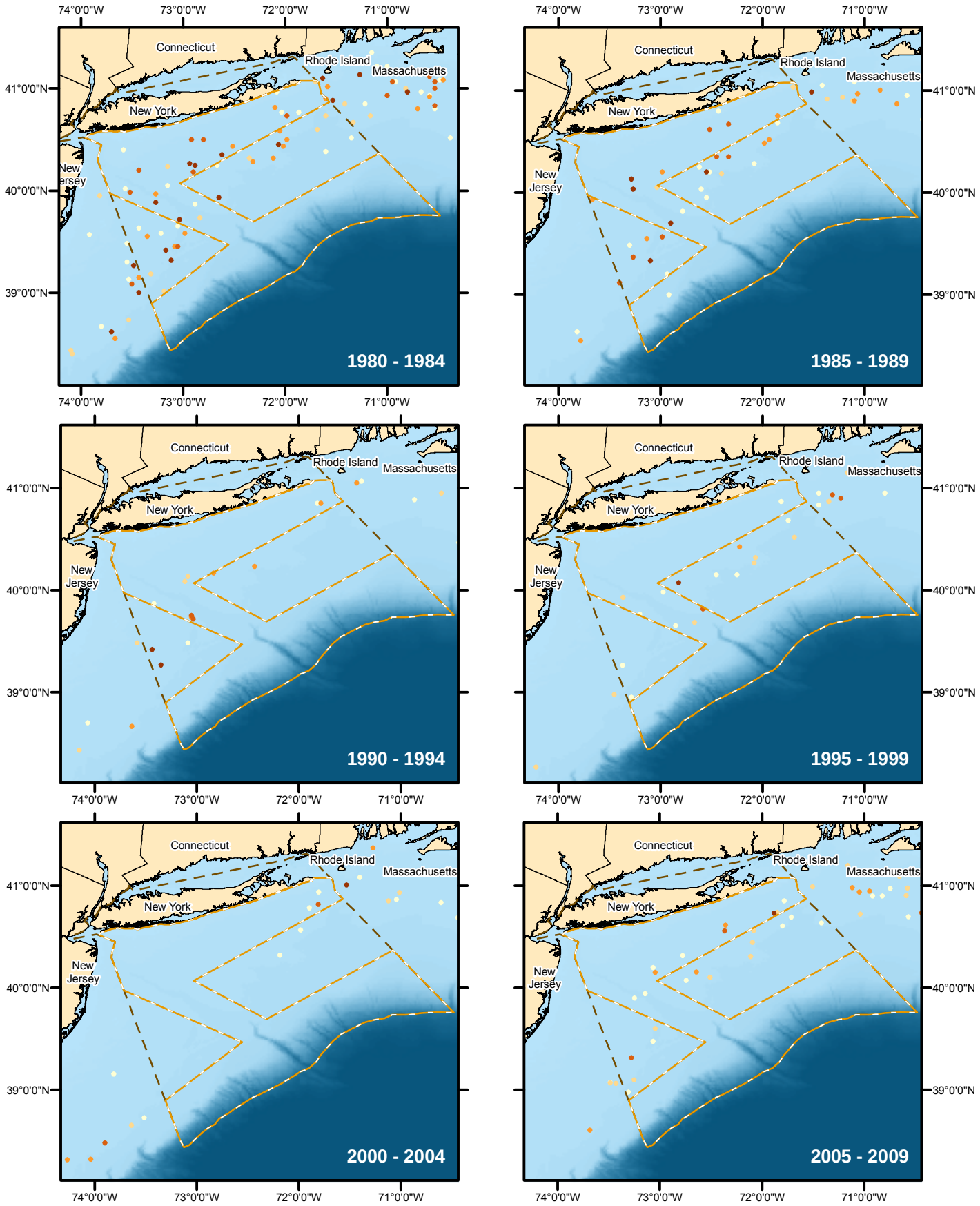

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Planning boundaries, NY Department of State

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