

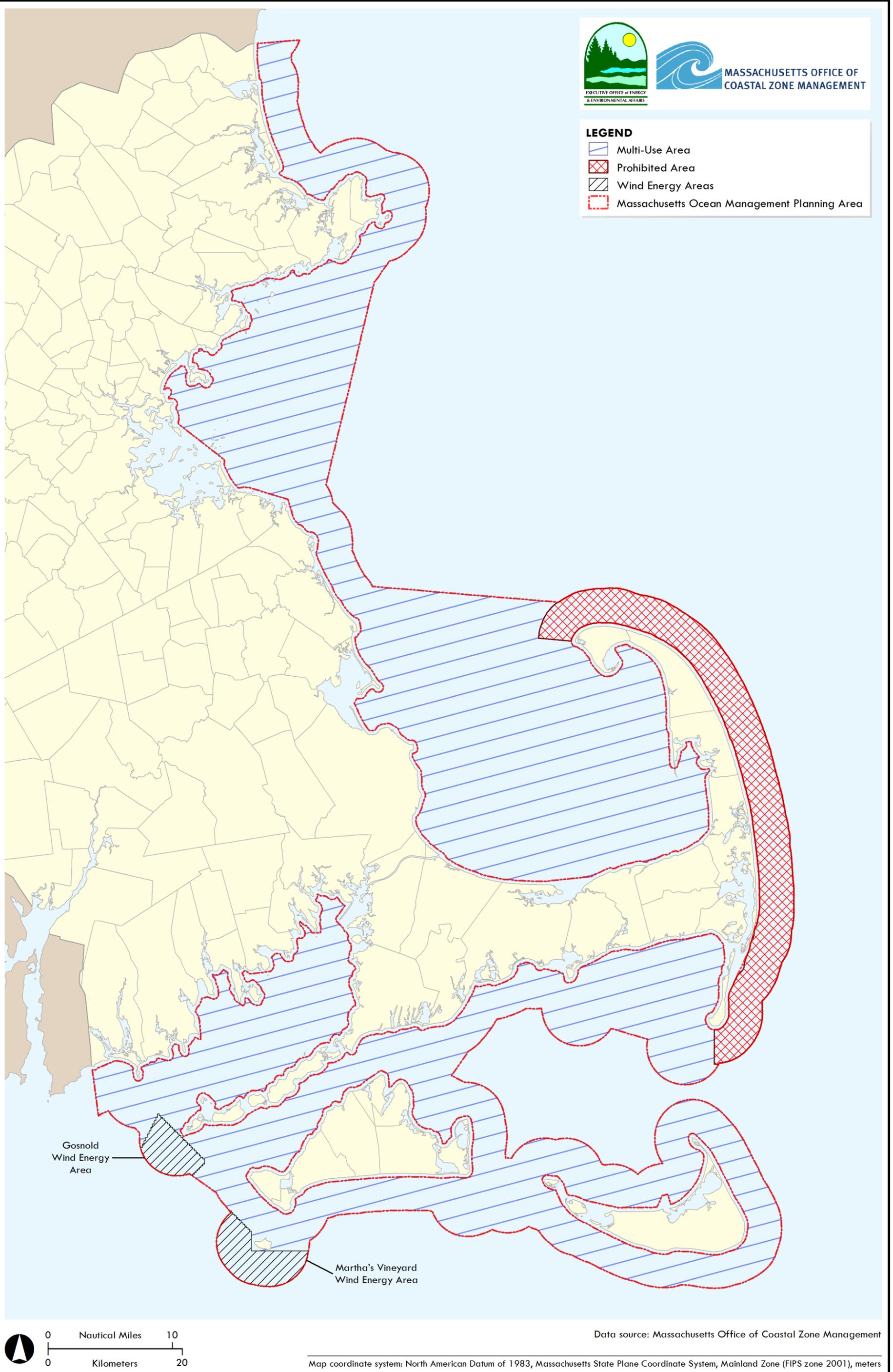
Figure 1. Massachusetts Ocean Management Planning Area



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

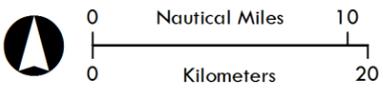
LEGEND

-  Multi-Use Area
-  Prohibited Area
-  Wind Energy Areas
-  Massachusetts Ocean Management Planning Area



Gosnold
Wind Energy
Area

Martha's Vineyard
Wind Energy Area



Data source: Massachusetts Office of Coastal Zone Management

Map coordinate system: North American Datum of 1983, Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters

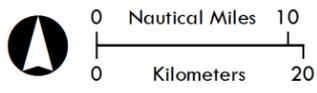
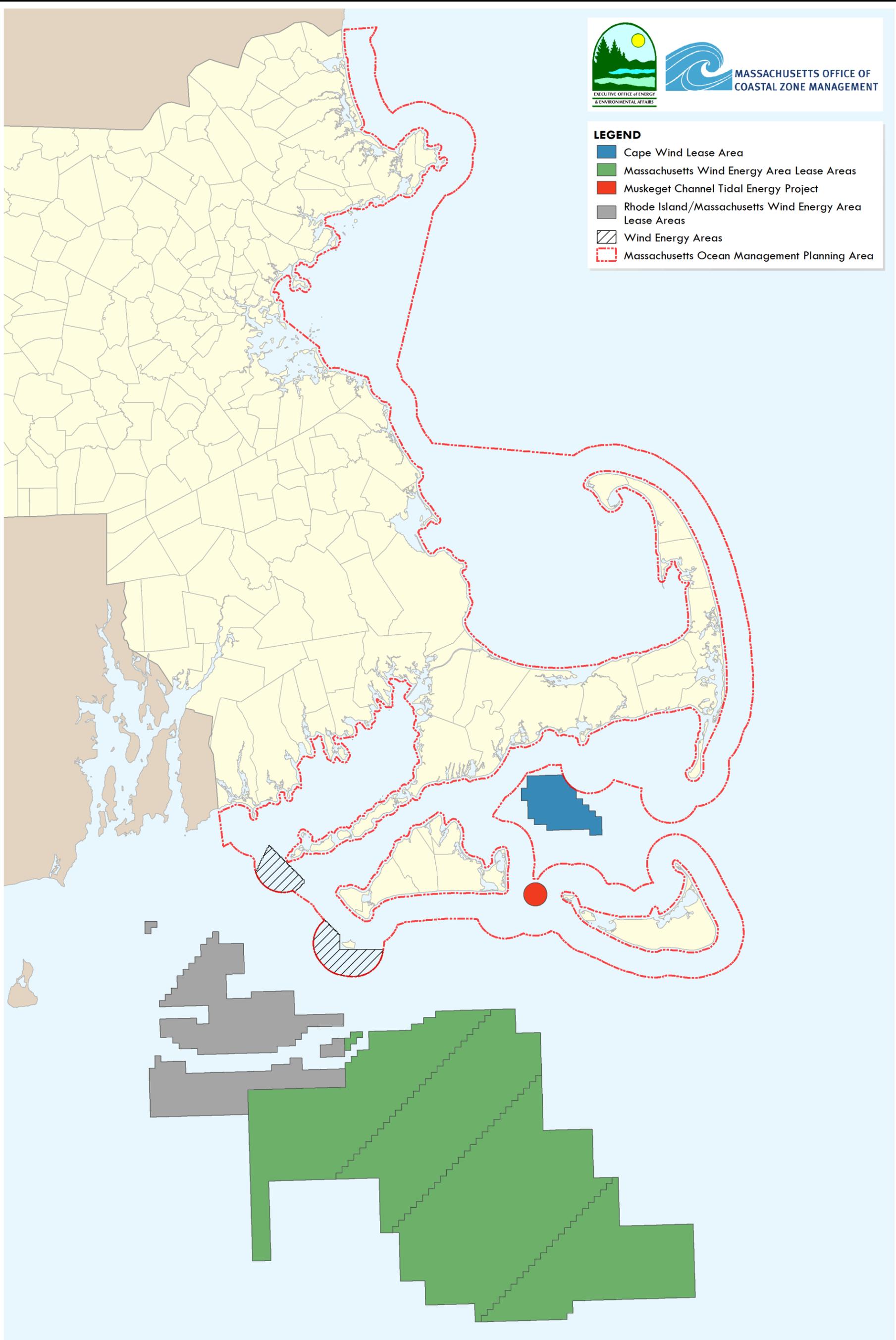
Figure 2. Management areas designated in the ocean plan



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

LEGEND

-  Cape Wind Lease Area
-  Massachusetts Wind Energy Area Lease Areas
-  Muskeget Channel Tidal Energy Project
-  Rhode Island/Massachusetts Wind Energy Area Lease Areas
-  Wind Energy Areas
-  Massachusetts Ocean Management Planning Area



Data sources: Bureau of Ocean Energy Management, Massachusetts Office of Coastal Zone Management

Map coordinate system: North American Datum of 1983, Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters

Figure 3. Renewable energy areas in the planning area and adjacent federal waters

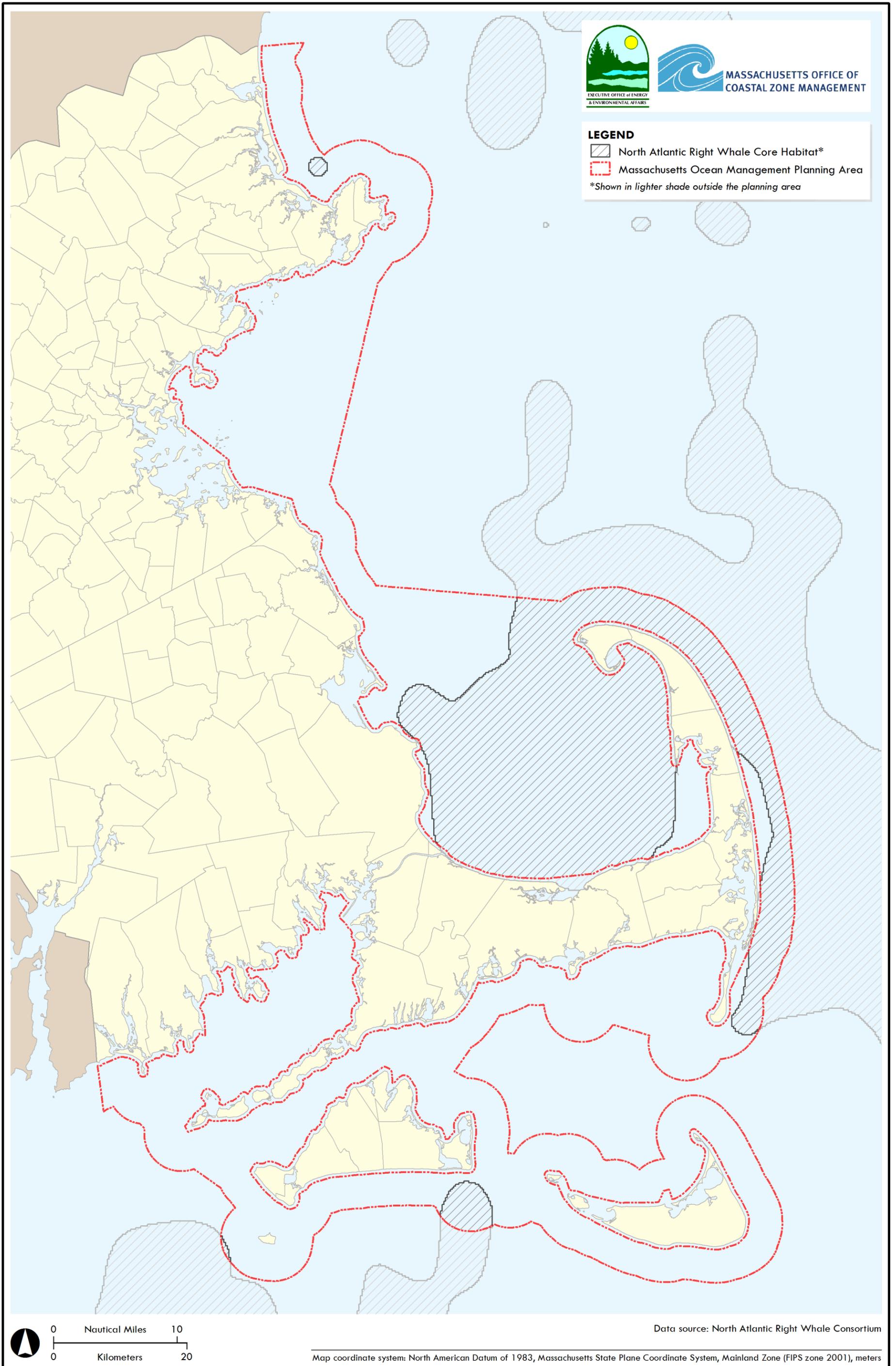


Figure 4. Special, sensitive, or unique resource: North Atlantic right whale core habitat

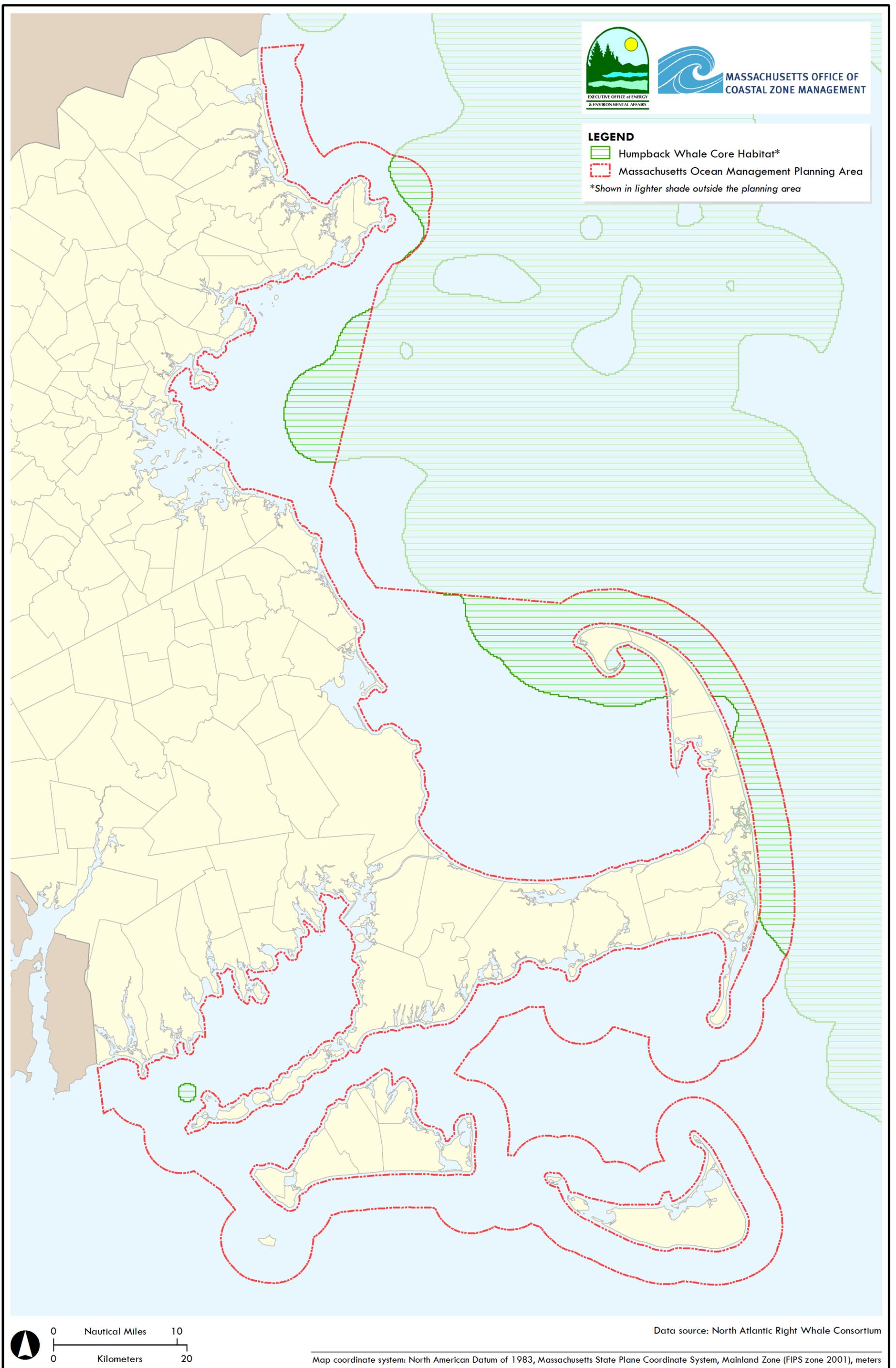


Figure 5. Special, sensitive, or unique resource: Humpback whale core habitat

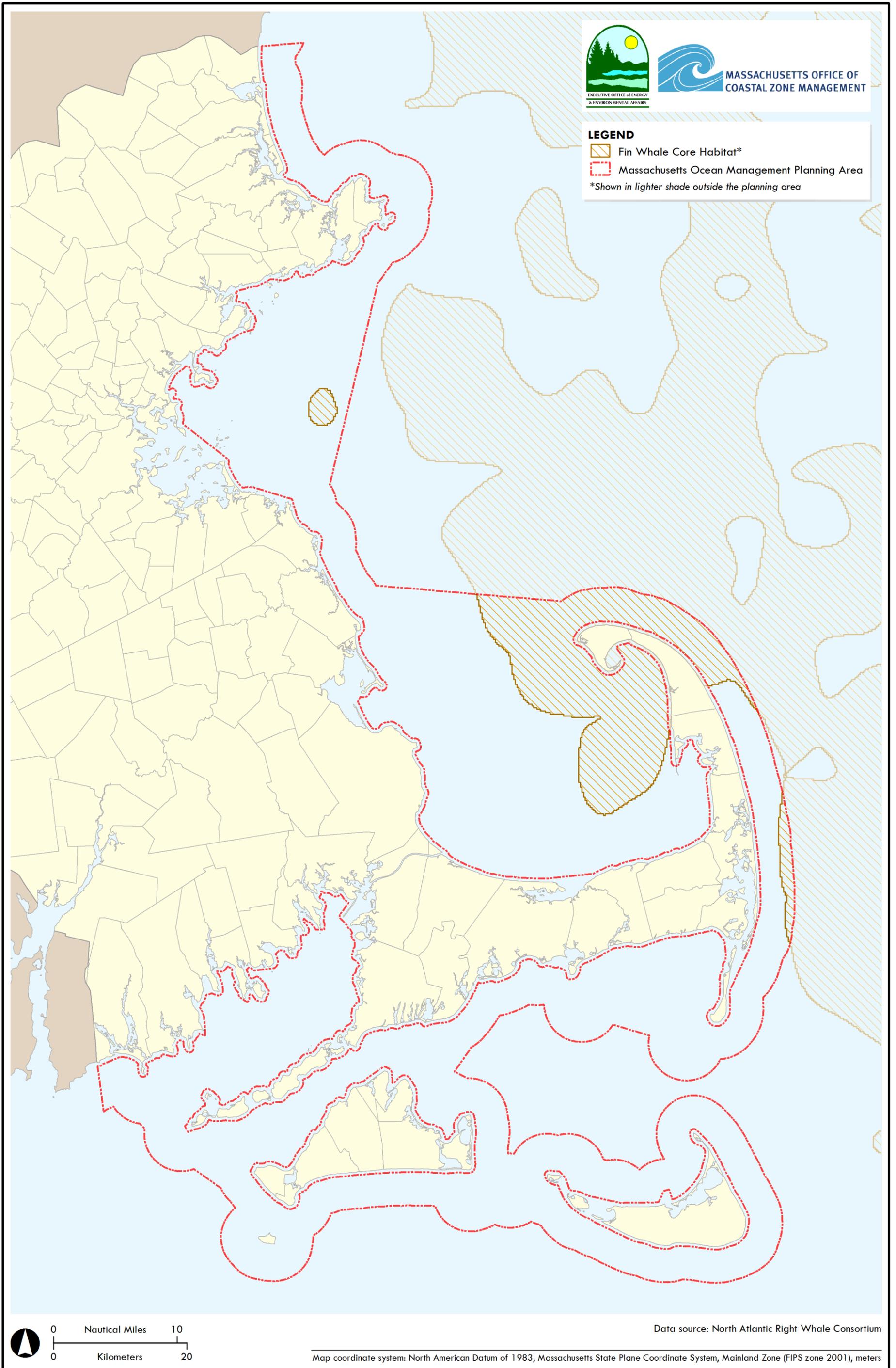


Figure 6. Special, sensitive, or unique resource: Fin whale core habitat



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LEGEND

-  Roseate Tern Core Habitat*
 -  Massachusetts Ocean Management Planning Area
- *Shown in lighter shade outside the planning area

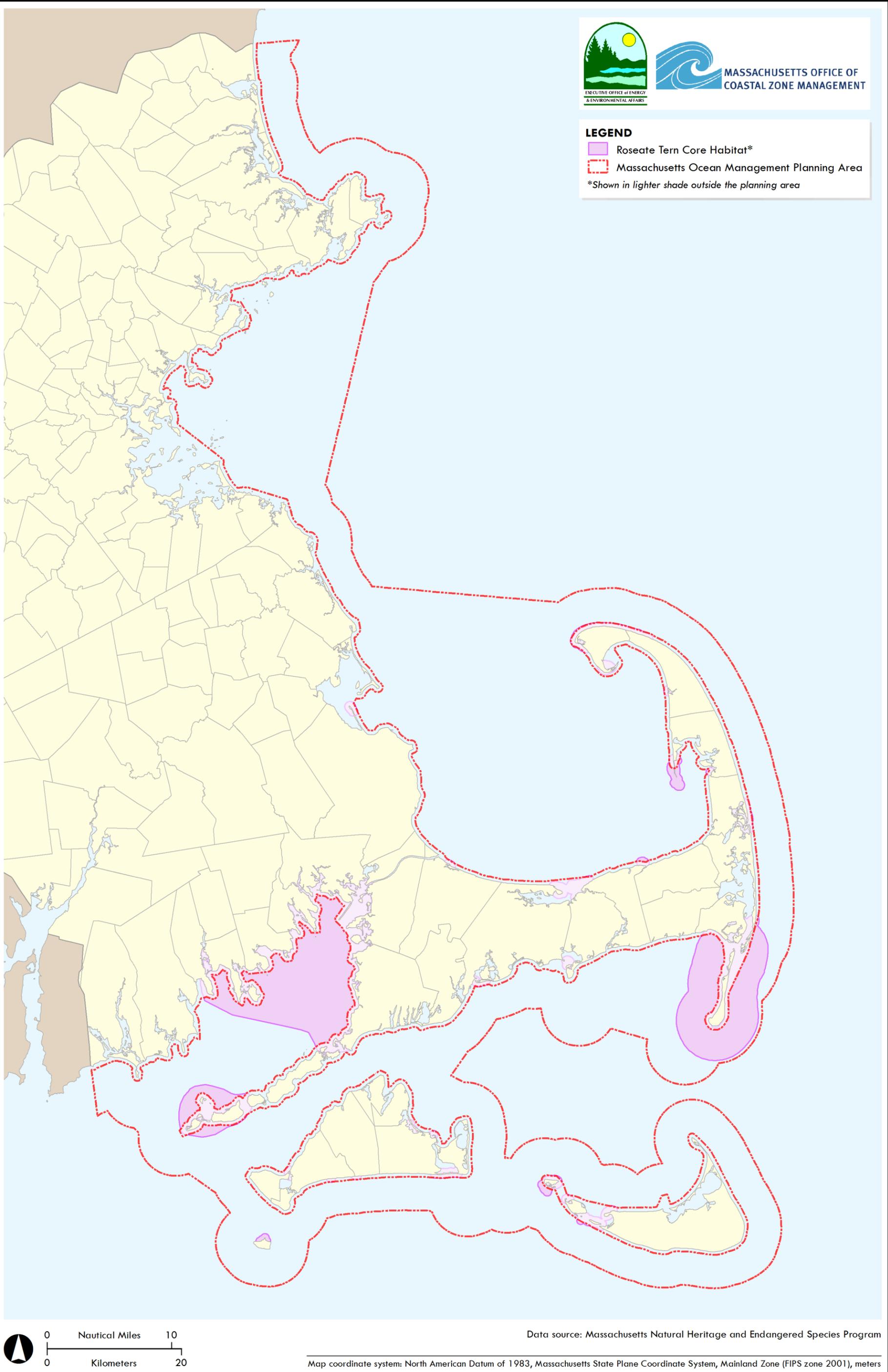


Figure 7. Special, sensitive, or unique resource: Roseate Tern core habitat



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LEGEND

-  Special Concern (Arctic, Least, and Common) Tern Core Habitat*
 -  Massachusetts Ocean Management Planning Area
- *Shown in lighter shade outside the planning area*

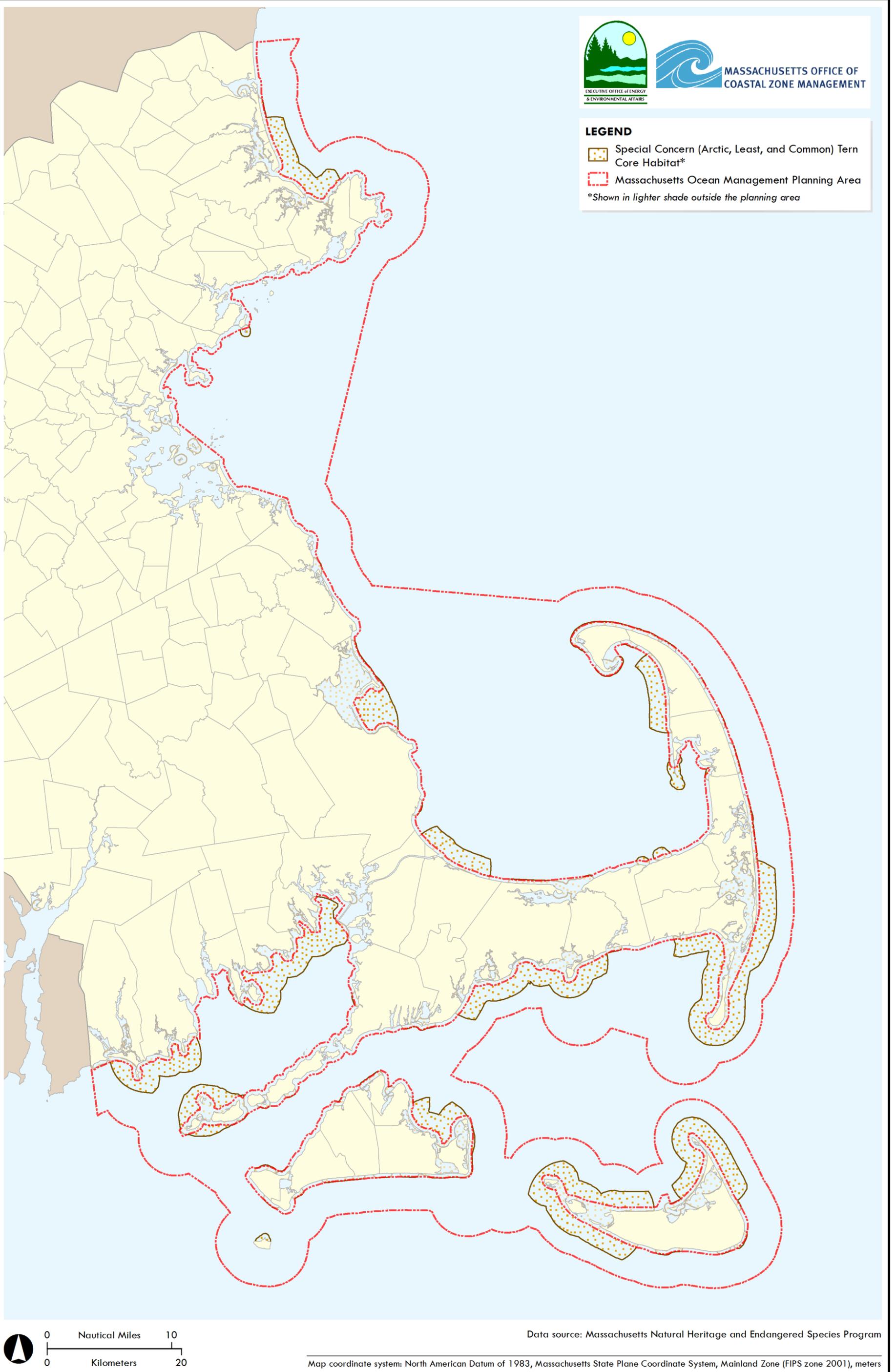


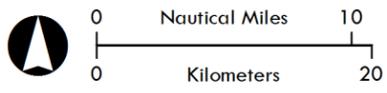
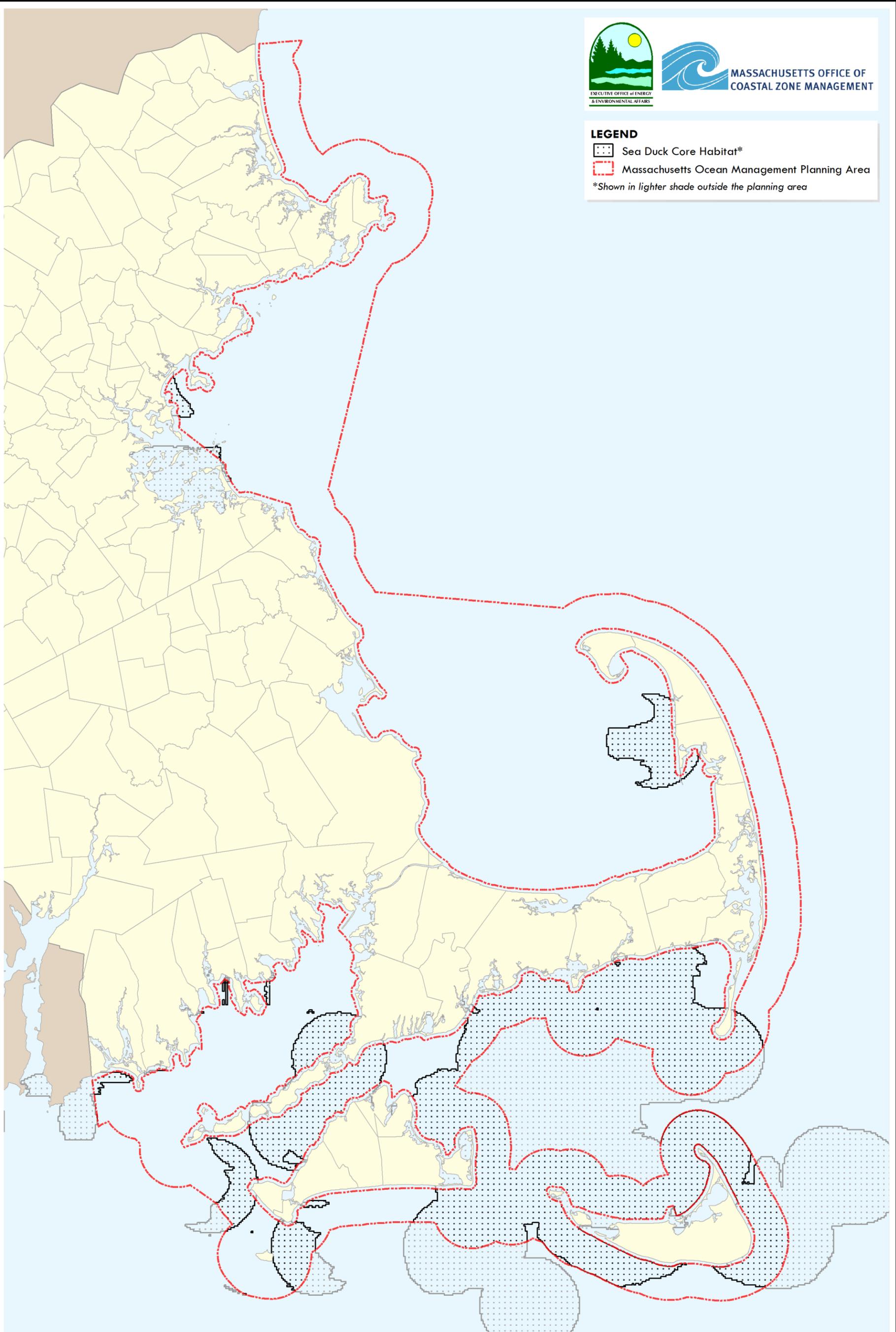
Figure 8. Special, sensitive, or unique resource: Special concern (Arctic, Least, and Common) tern core habitat



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LEGEND

-  Sea Duck Core Habitat*
 -  Massachusetts Ocean Management Planning Area
- *Shown in lighter shade outside the planning area



Data sources: Mass Audubon, U.S. Fish and Wildlife Service

Map coordinate system: North American Datum of 1983, Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters

Figure 9. Special, sensitive, or unique resource: Sea duck (Long-tailed Duck, Common Eider, Black Scoter, Surf Scoter, and White-winged Scoter) core habitat



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COASTAL ZONE MANAGEMENT

LEGEND

-  Leach's Storm-Petrel Important Nesting Habitat*
 -  Massachusetts Ocean Management Planning Area
- *Shown in lighter shade outside the planning area

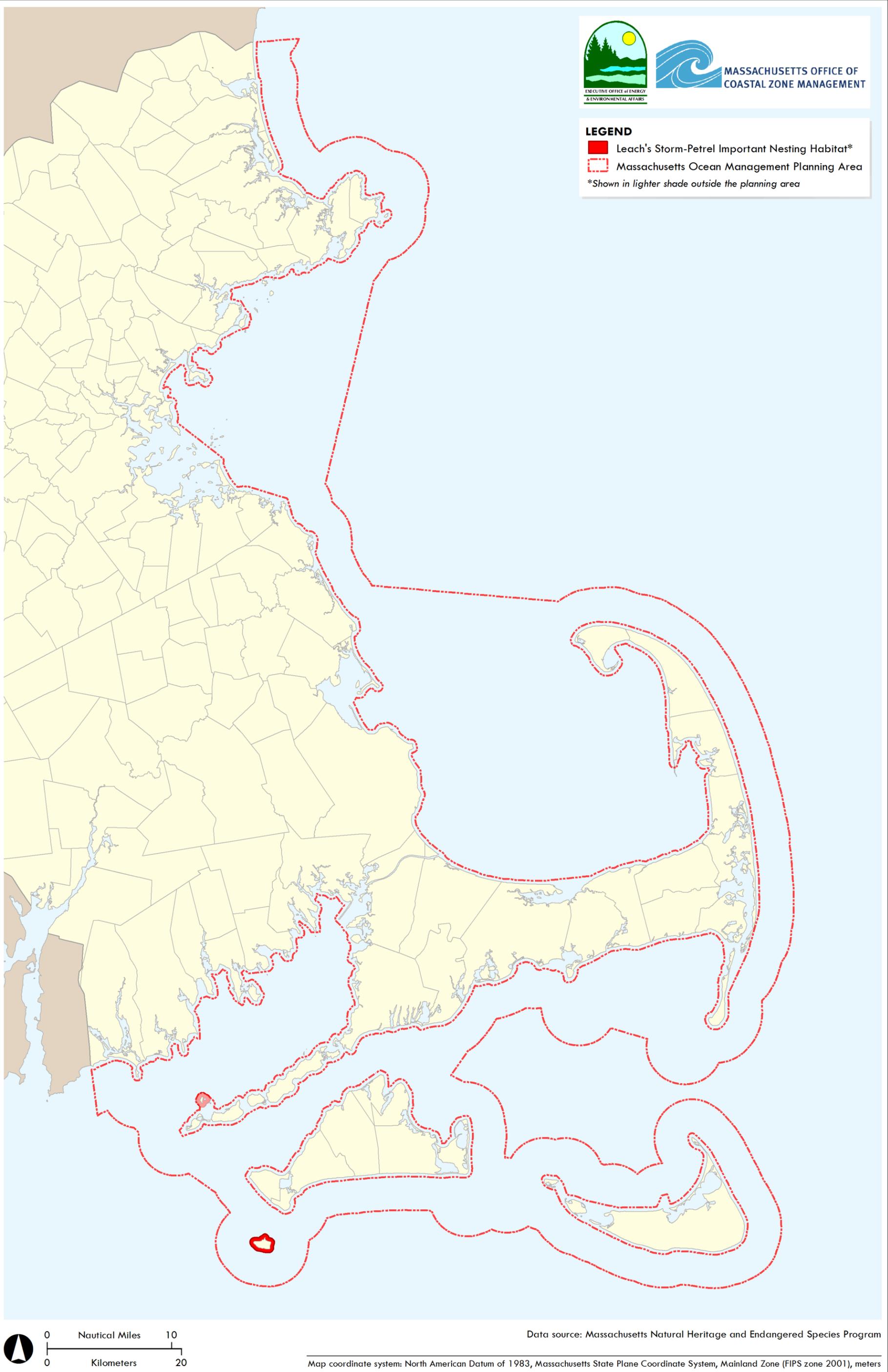


Figure 10. Special, sensitive, or unique resource: Leach's Storm-Petrel important nesting habitat



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

LEGEND

-  Colonial Waterbirds Important Nesting Habitat*
 -  Massachusetts Ocean Management Planning Area
- *Shown in lighter shade outside the planning area

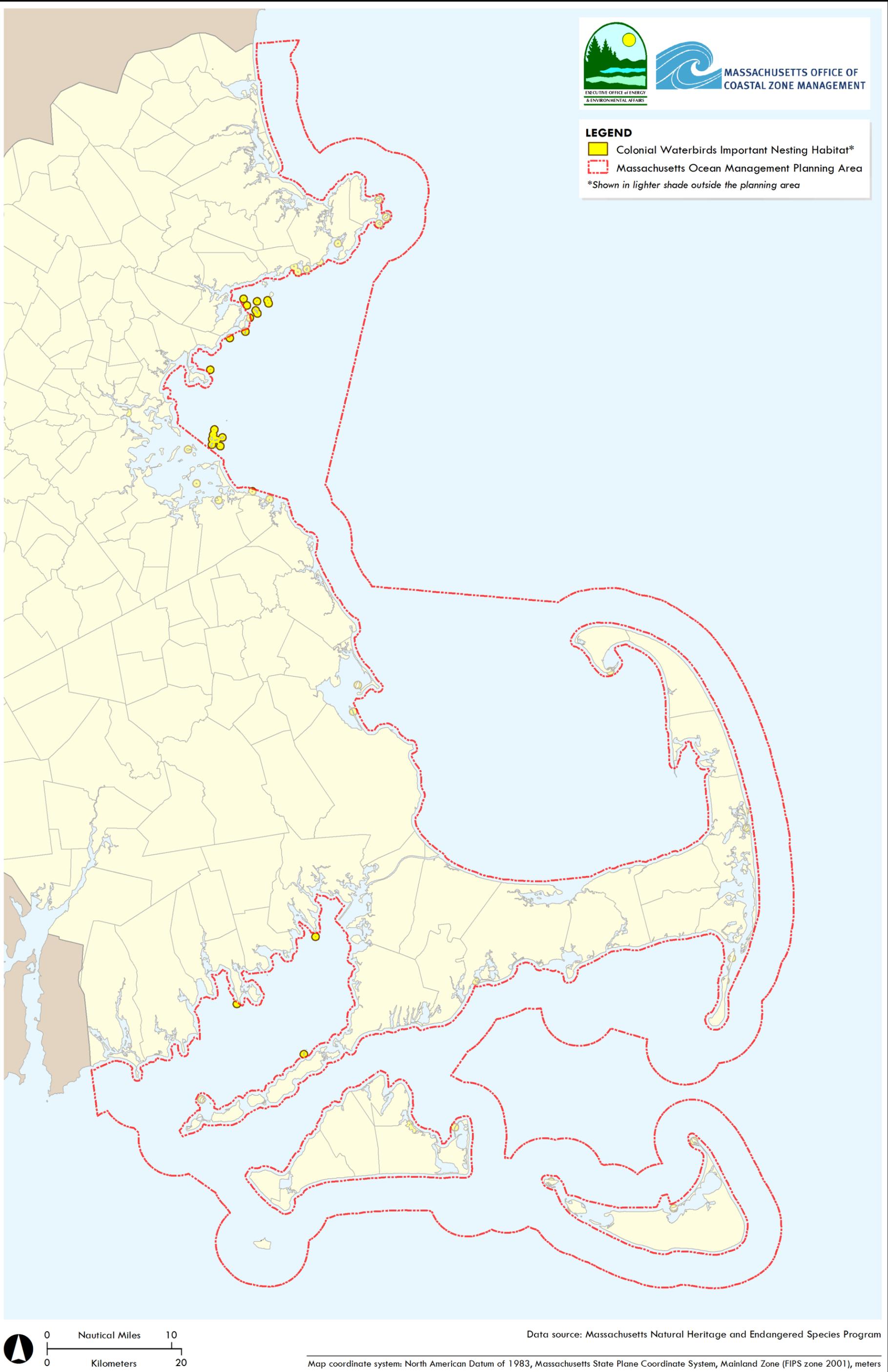


Figure 11. Special, sensitive, or unique resource: Colonial waterbirds important nesting habitat



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

LEGEND

-  Hard/Complex Seafloor
-  Massachusetts Ocean Management Planning Area

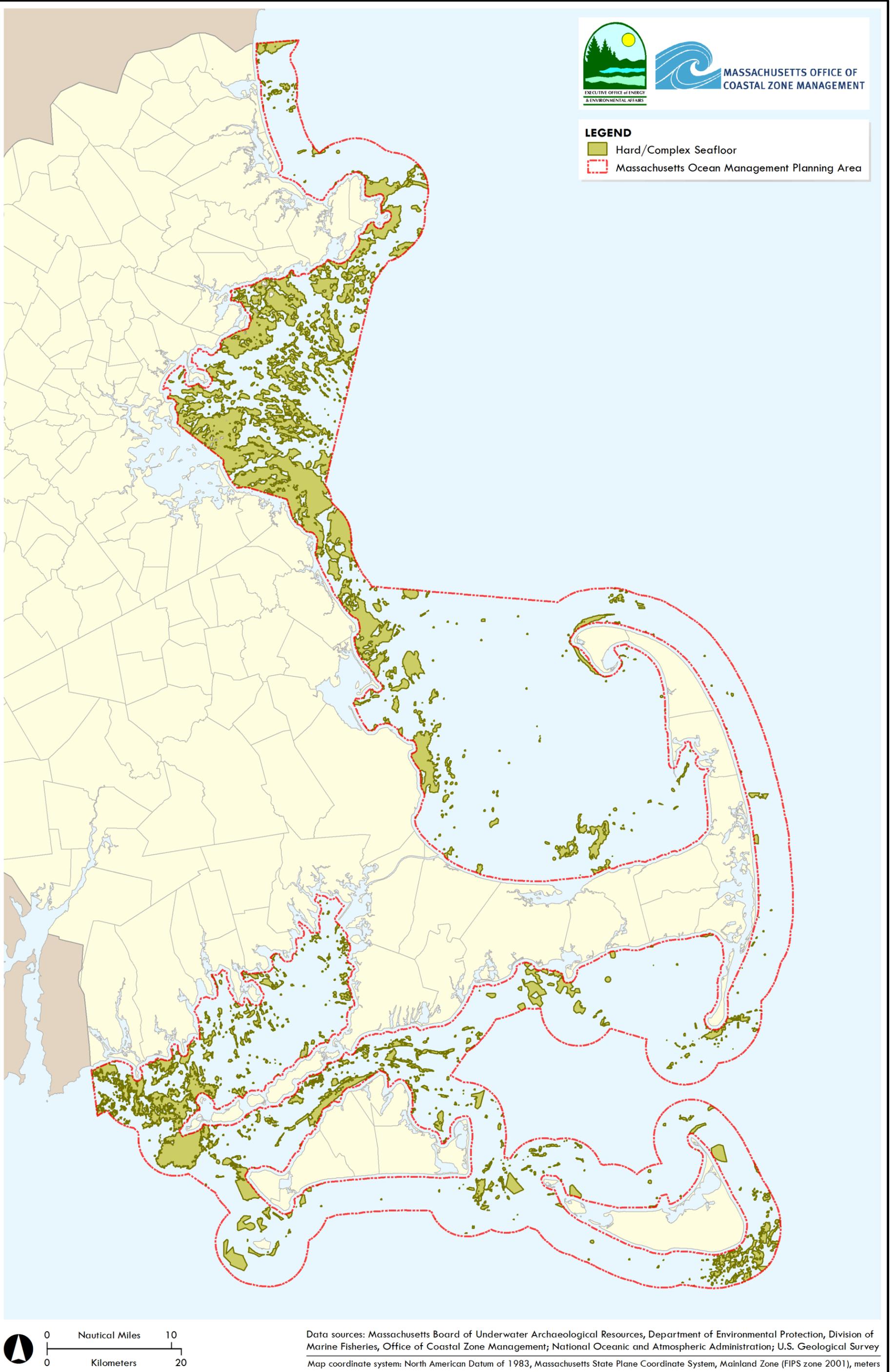


Figure 12. Special, sensitive, or unique resource: Hard/complex seafloor



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

LEGEND

 Eelgrass*

 Massachusetts Ocean Management Planning Area

*Shown in lighter shade outside the planning area

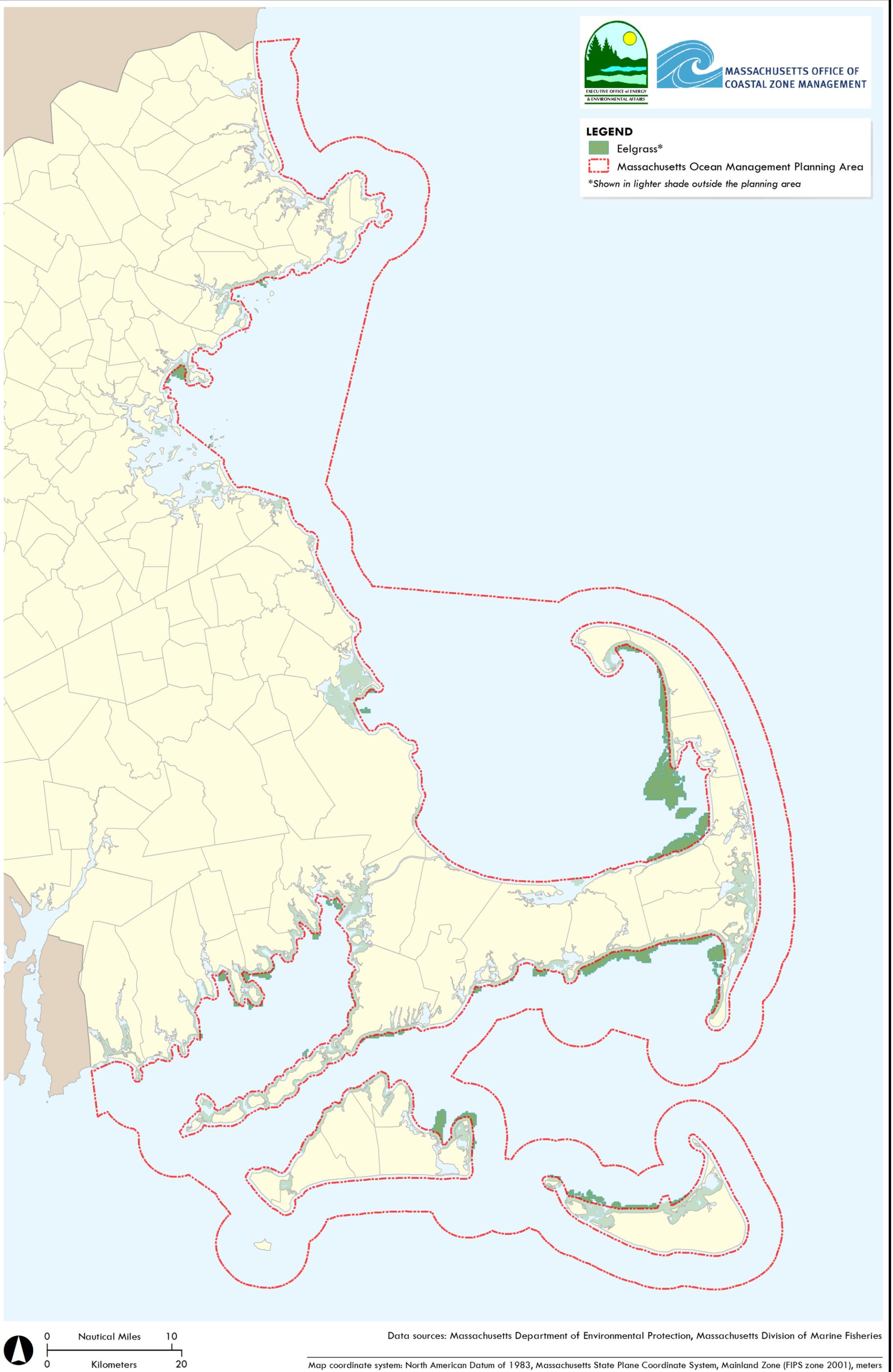


Figure 13. Special, sensitive, or unique resource: Eelgrass



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

LEGEND

■ Intertidal Flats*

▭ Massachusetts Ocean Management Planning Area

*Shown in lighter shade outside the planning area

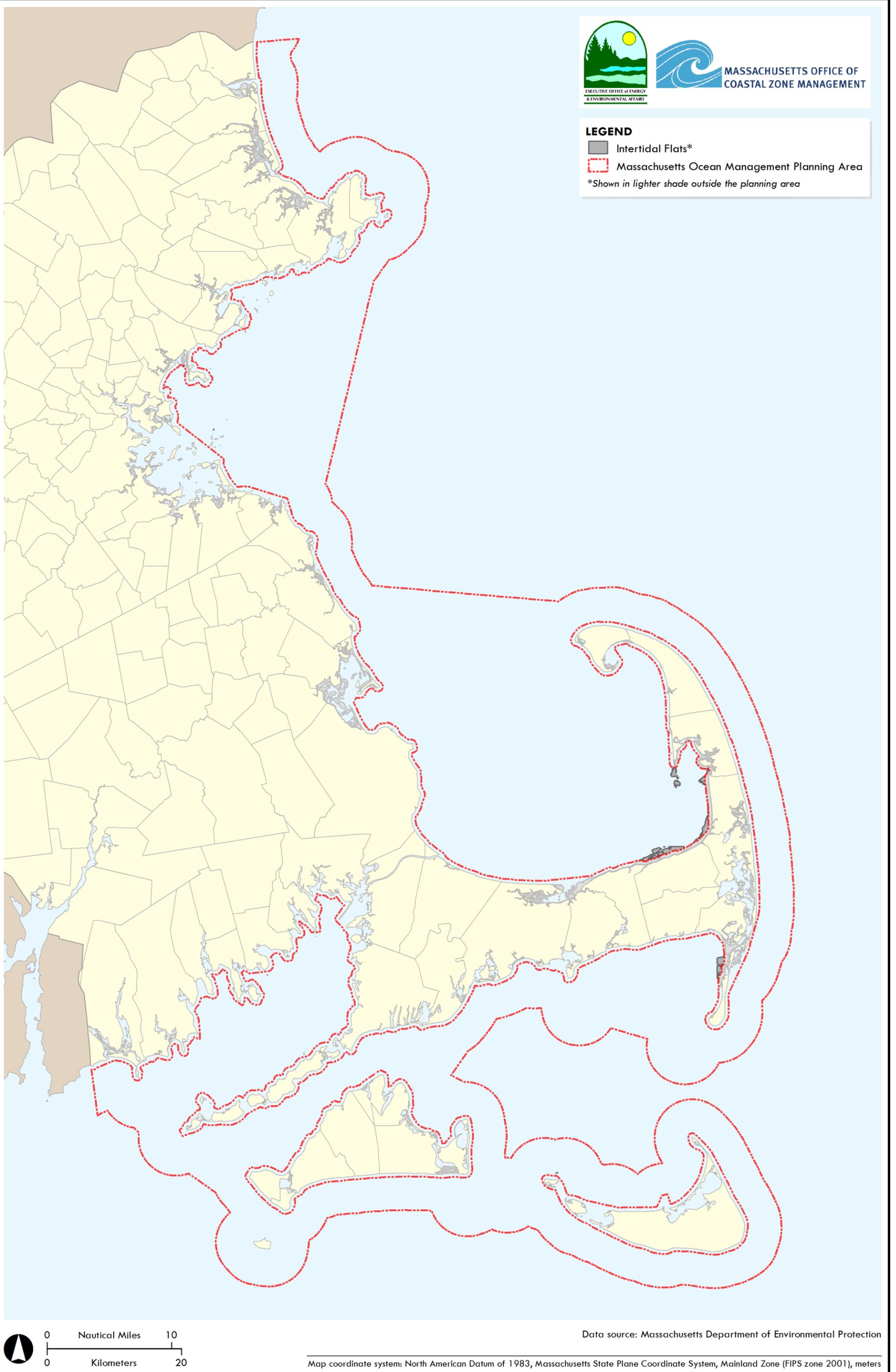


Figure 14. Special, sensitive, or unique resource: Intertidal flats



MASSACHUSETTS OFFICE OF
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LEGEND

-  Important Fish Resources
-  Massachusetts Ocean Management Planning Area

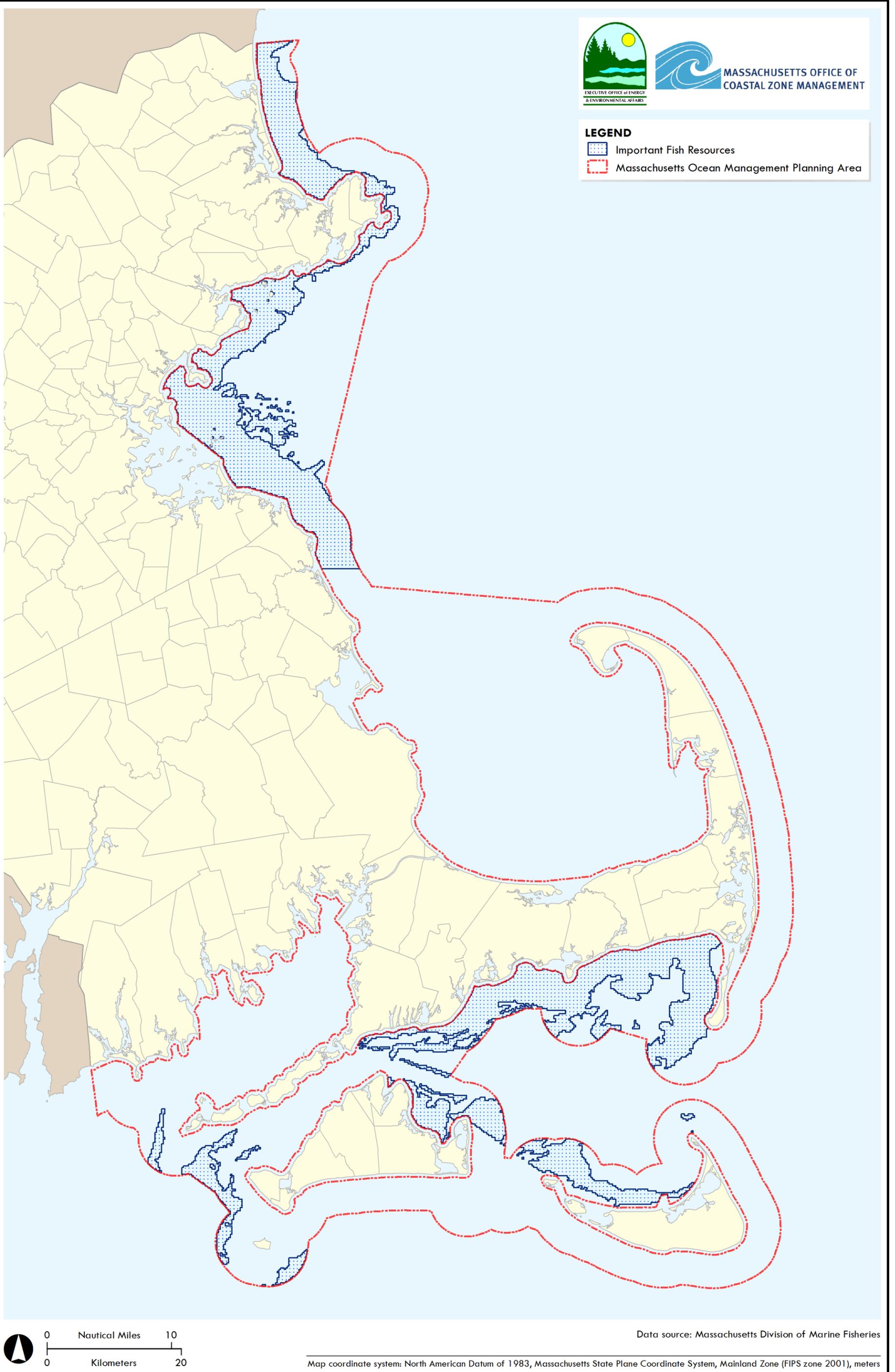


Figure 15. Special, sensitive, or unique resource: Important fish resources



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LEGEND

-  High Commercial Fishing Effort and Value
-  Massachusetts Ocean Management Planning Area

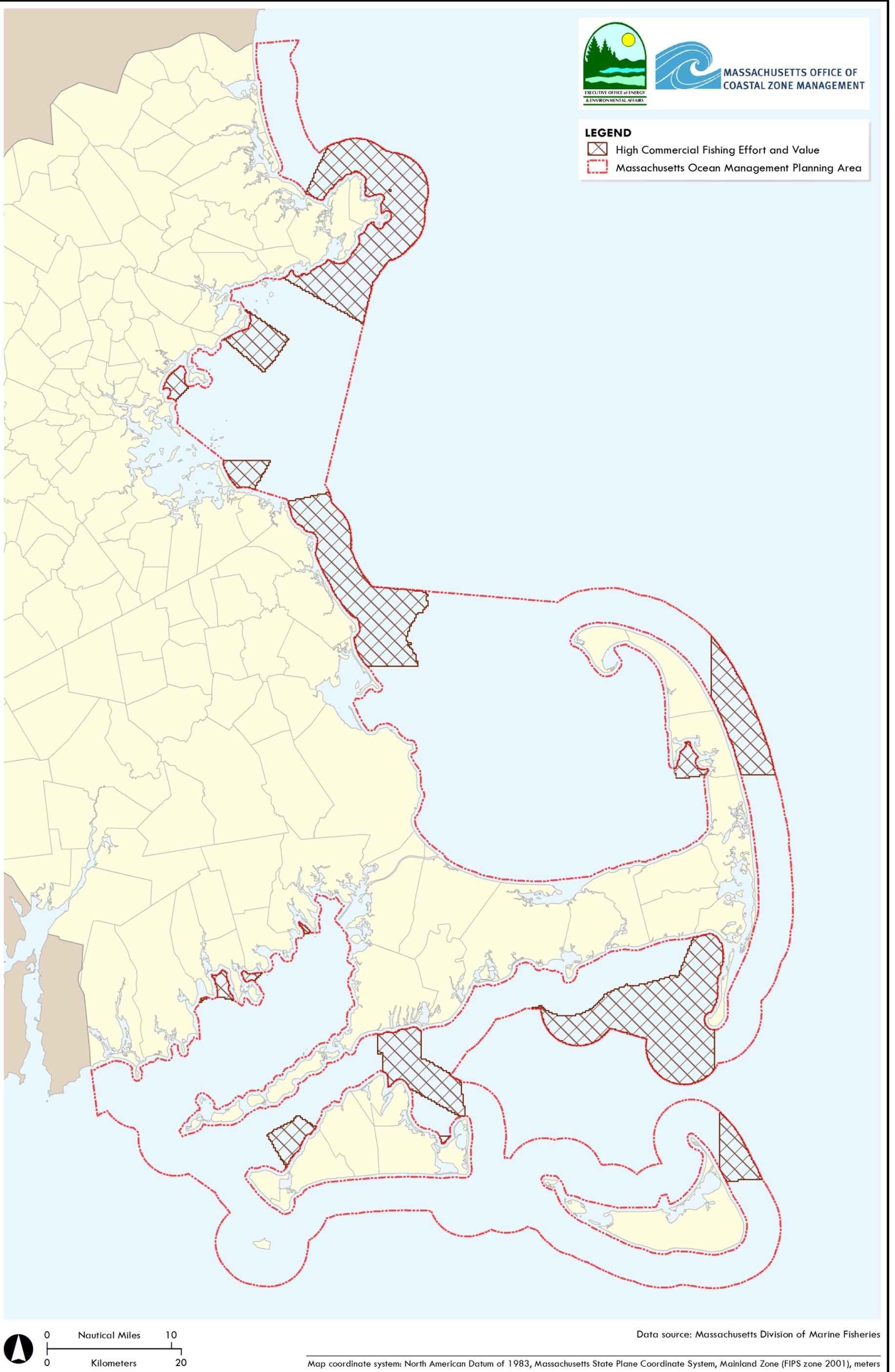


Figure 16. Concentrations of water-dependent use area: High commercial fishing effort and value



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

LEGEND

 Concentrated Recreational Fishing

 Massachusetts Ocean Management Planning Area

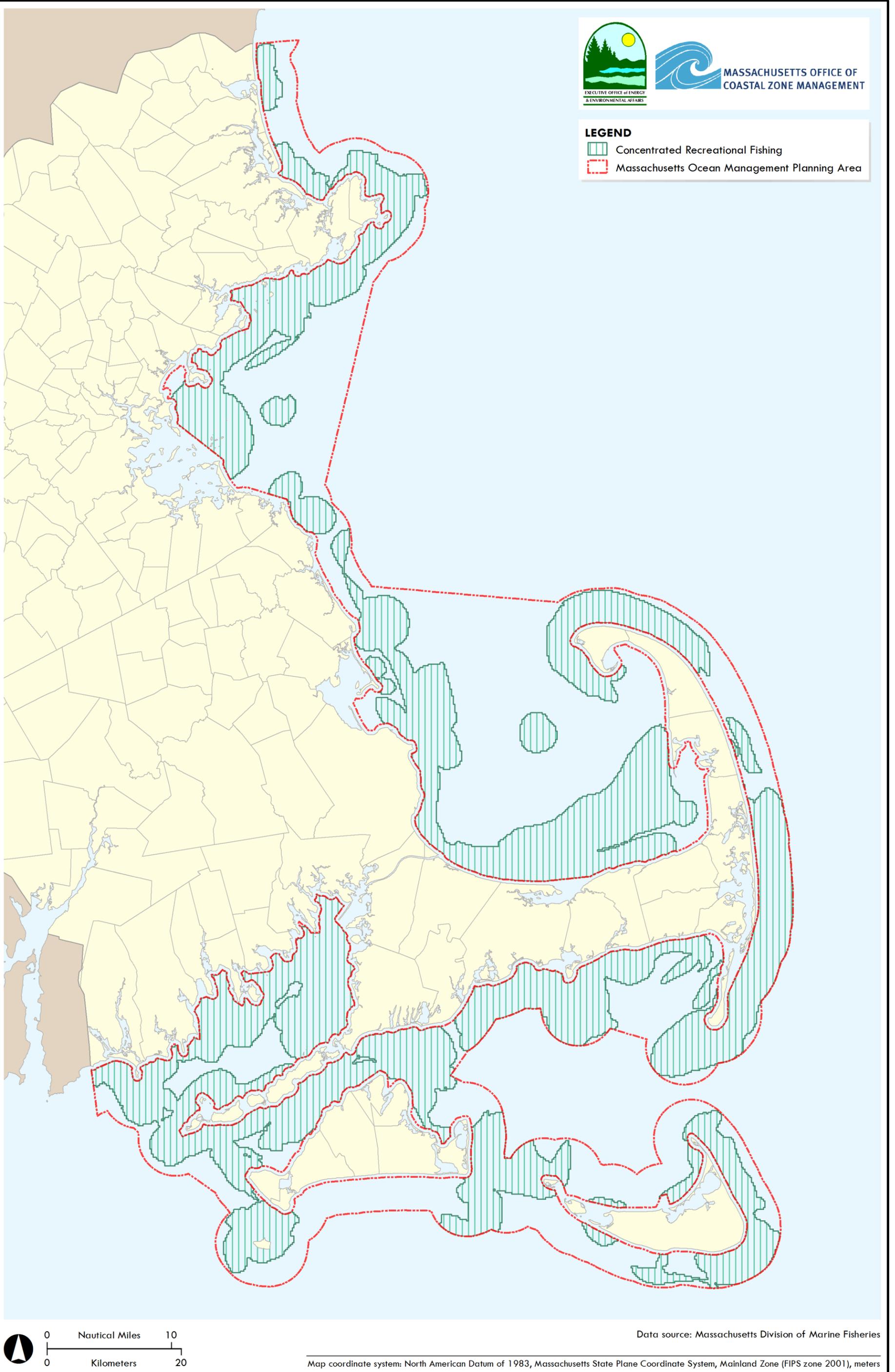


Figure 17. Concentrations of water-dependent use area: Concentrated recreational fishing



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

LEGEND

 Concentrated Commerce Traffic*

 Massachusetts Ocean Management Planning Area

*Shown in lighter shade outside the planning area

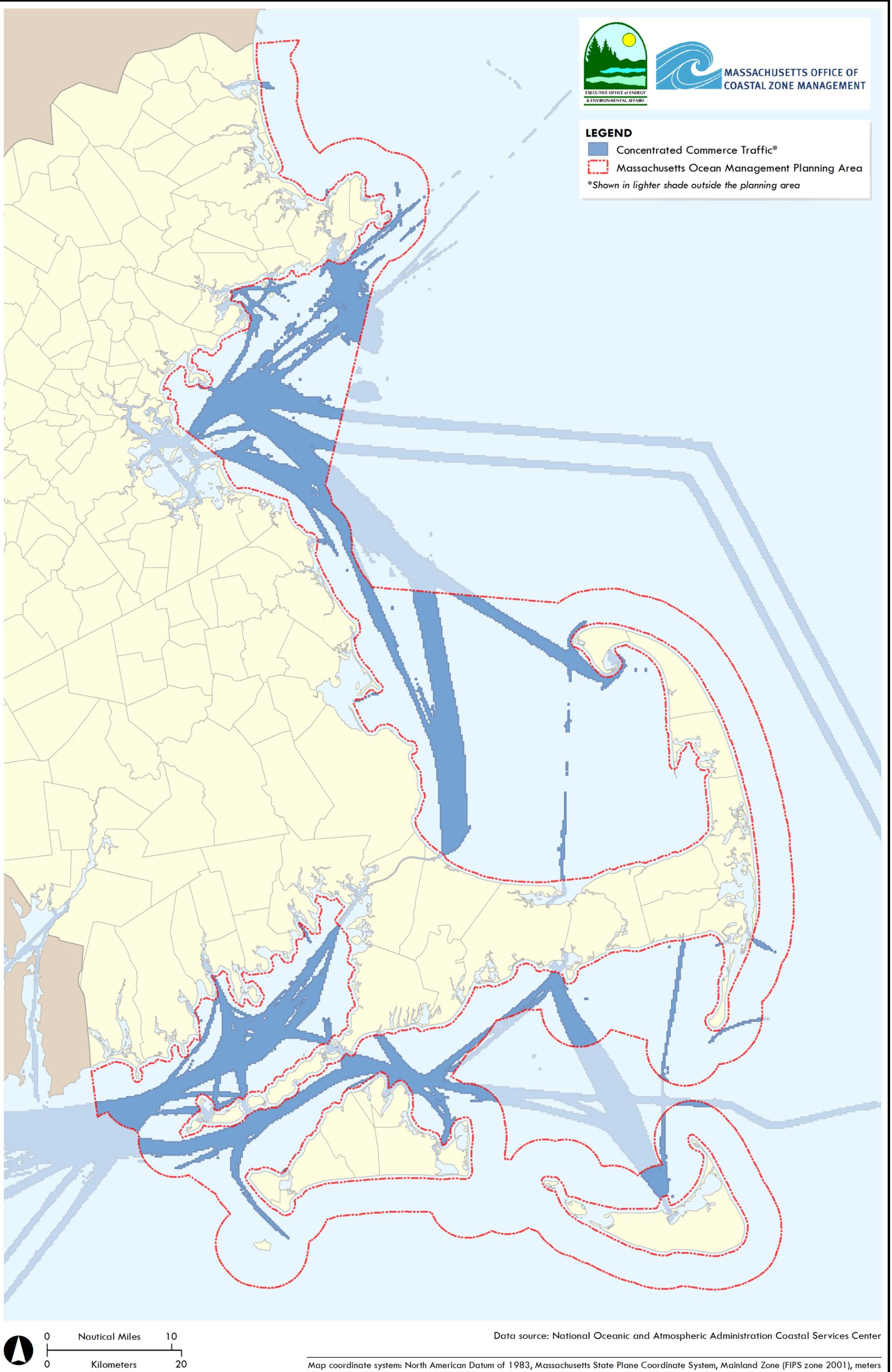


Figure 18. Concentrations of water-dependent use area: Concentrated commerce traffic

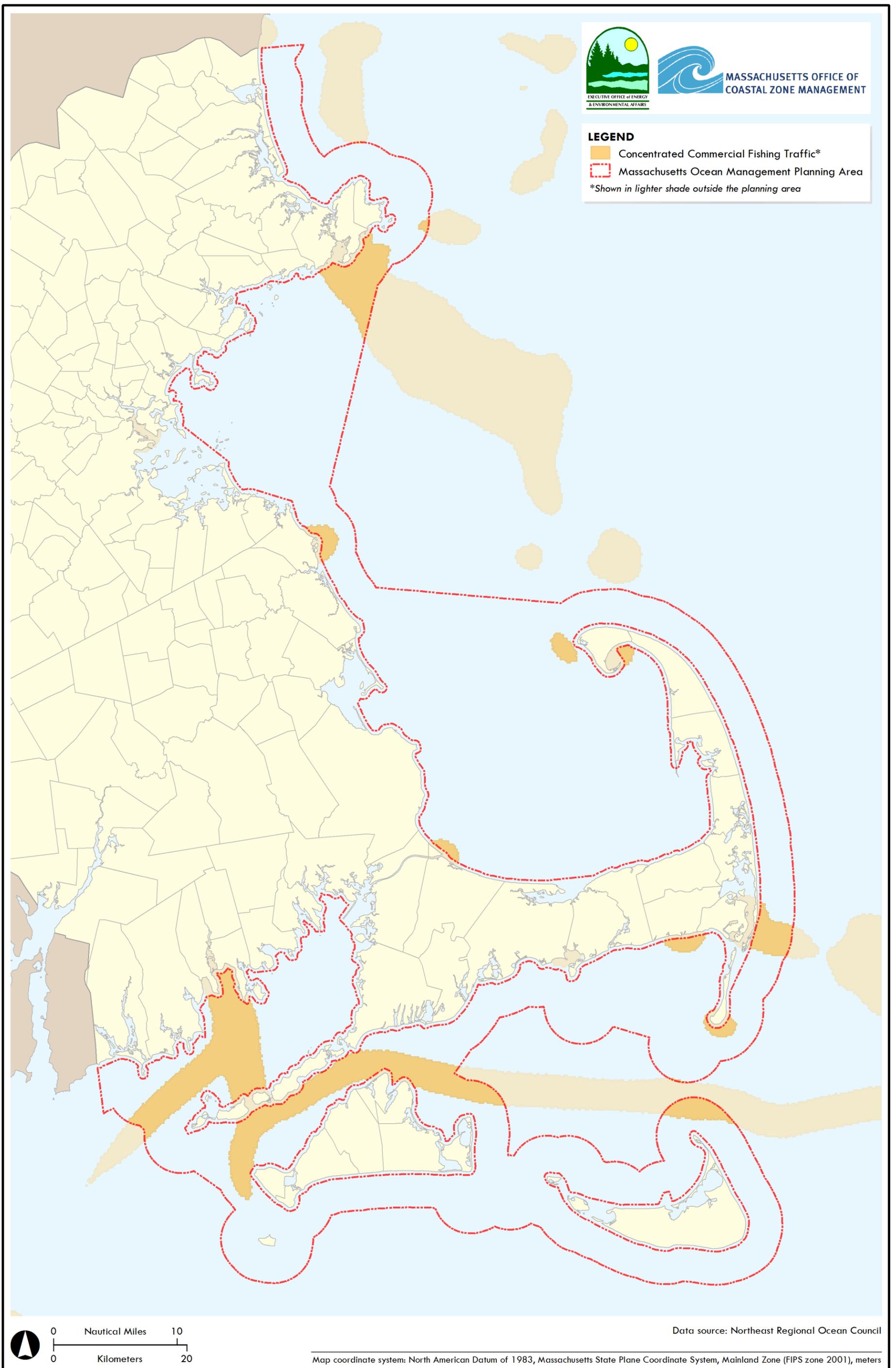


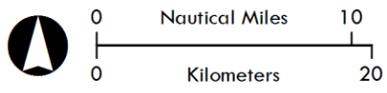
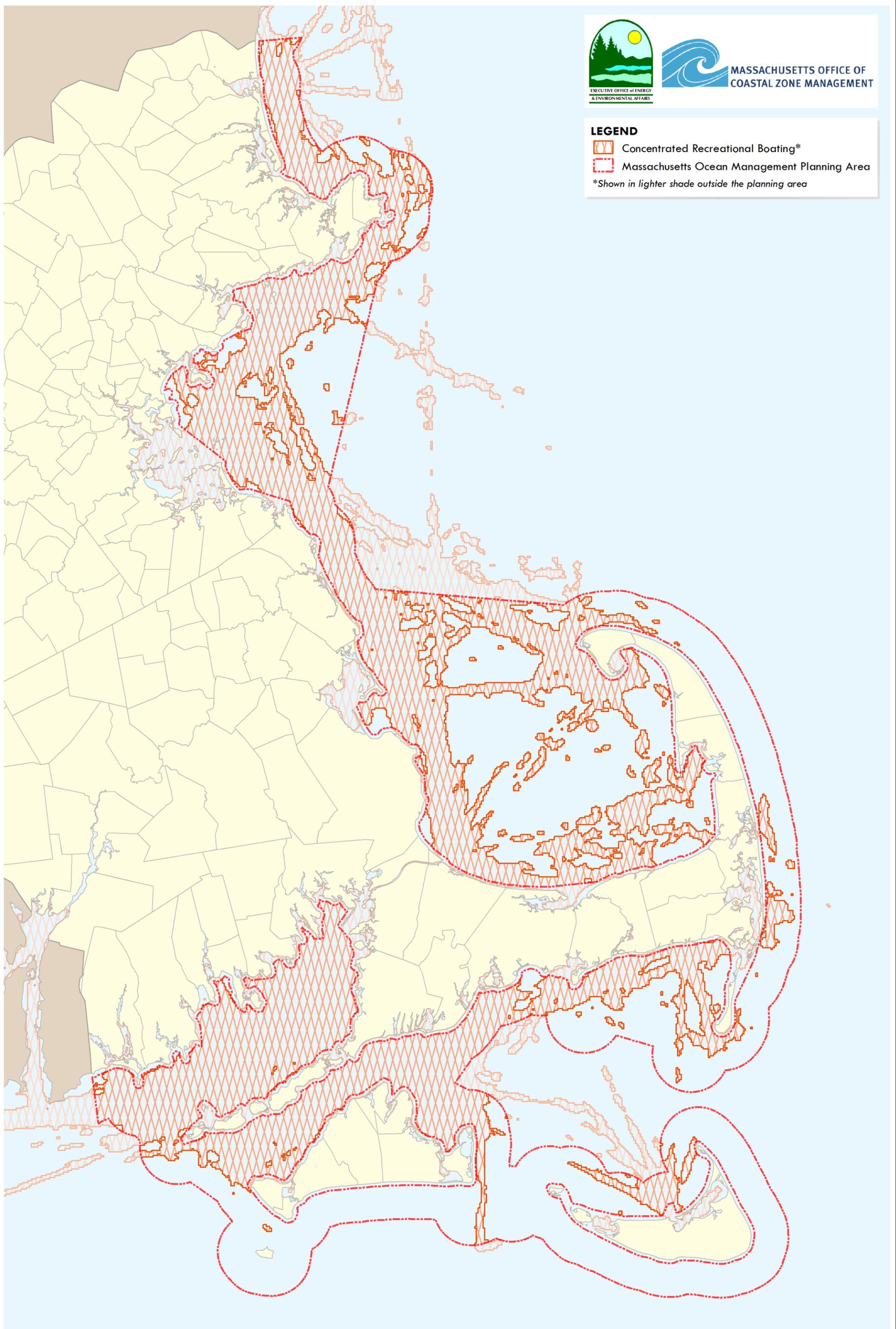
Figure 19. Concentrations of water-dependent use area: Concentrated commercial fishing traffic



MASSACHUSETTS OFFICE OF
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LEGEND

-  Concentrated Recreational Boating*
 -  Massachusetts Ocean Management Planning Area
- *Shown in lighter shade outside the planning area



Data sources: Massachusetts Marine Trades Association, SeaPlan

Map coordinate system: North American Datum of 1983, Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters

Figure 20. Concentrations of water-dependent use area: Concentrated recreational boating



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

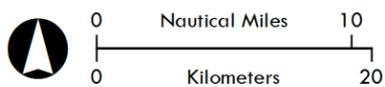
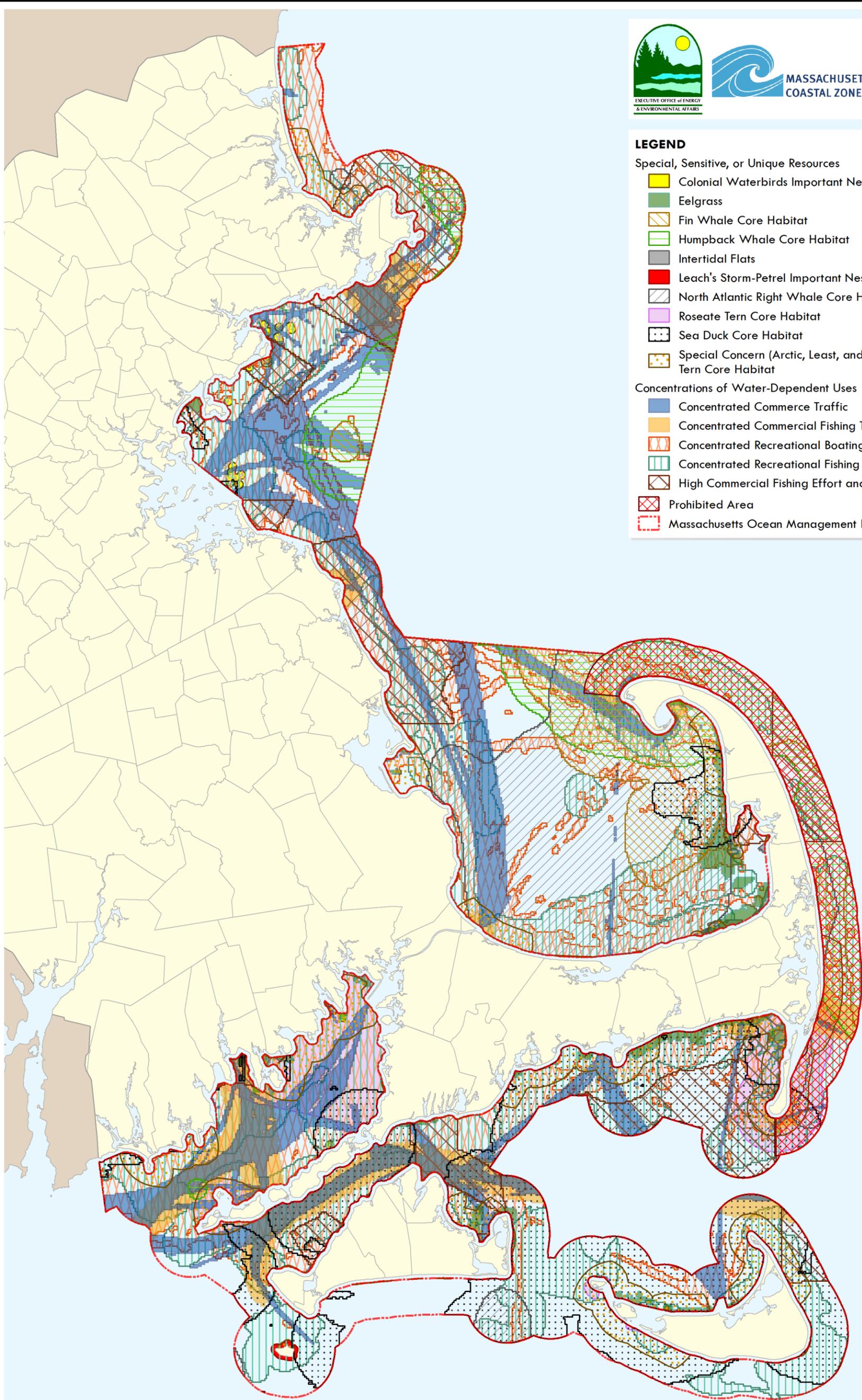
LEGEND

Special, Sensitive, or Unique Resources

- Colonial Waterbirds Important Nesting Habitat
- Eelgrass
- Fin Whale Core Habitat
- Humpback Whale Core Habitat
- Intertidal Flats
- Leach's Storm-Petrel Important Nesting Habitat
- North Atlantic Right Whale Core Habitat
- Roseate Tern Core Habitat
- Sea Duck Core Habitat
- Special Concern (Arctic, Least, and Common) Tern Core Habitat

Concentrations of Water-Dependent Uses

- Concentrated Commerce Traffic
- Concentrated Commercial Fishing Traffic
- Concentrated Recreational Boating
- Concentrated Recreational Fishing
- High Commercial Fishing Effort and Value
- Prohibited Area
- Massachusetts Ocean Management Planning Area



Data sources: *Marine Fisheries*, Mass Audubon, Massachusetts Marine Trades Association, MassDEP, NHESP, NOAA Coastal Services Center, North Atlantic Right Whale Consortium, Northeast Regional Ocean Council, SeaPlan, U.S. Fish and Wildlife Service

Map coordinate system: North American Datum of 1983, Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters

Figure 21. Special, sensitive, or unique resources and concentrations of water-dependent uses to be addressed for community-scale wind energy facilities



LEGEND

Regional Planning Agencies

- Cape Cod Commission
- Martha's Vineyard Commission
- Merrimack Valley Planning Commission
- Metropolitan Area Planning Council
- Nantucket Planning and Economic Development Commission
- Old Colony Planning Council
- Southeastern Regional Planning and Economic Development District
- Belongs to both Metropolitan Area Planning Council and Old Colony Planning Council
- Massachusetts Ocean Management Planning Area

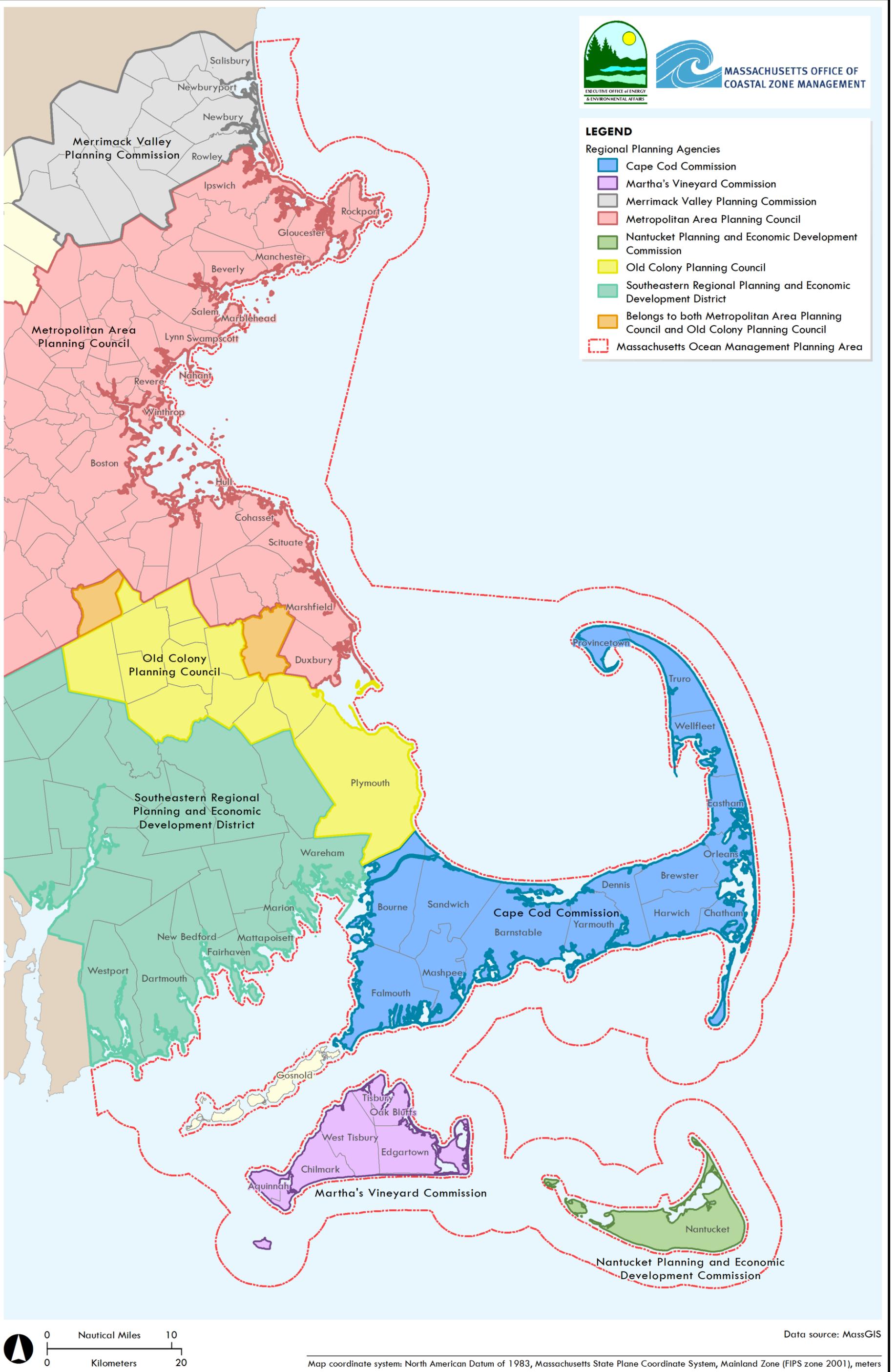


Figure 22. Regional planning agencies and municipalities adjacent to the planning area



MASSACHUSETTS OFFICE OF
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LEGEND

Special, Sensitive, or Unique Resources

-  Eelgrass
-  Important Fish Resources
-  Intertidal Flats
-  North Atlantic Right Whale Core Habitat

Concentrations of Water-Dependent Uses

-  Concentrated Commerce Traffic
-  Concentrated Commercial Fishing Traffic
-  Concentrated Recreational Boating
-  Concentrated Recreational Fishing
-  High Commercial Fishing Effort and Value
-  Massachusetts Ocean Management Planning Area

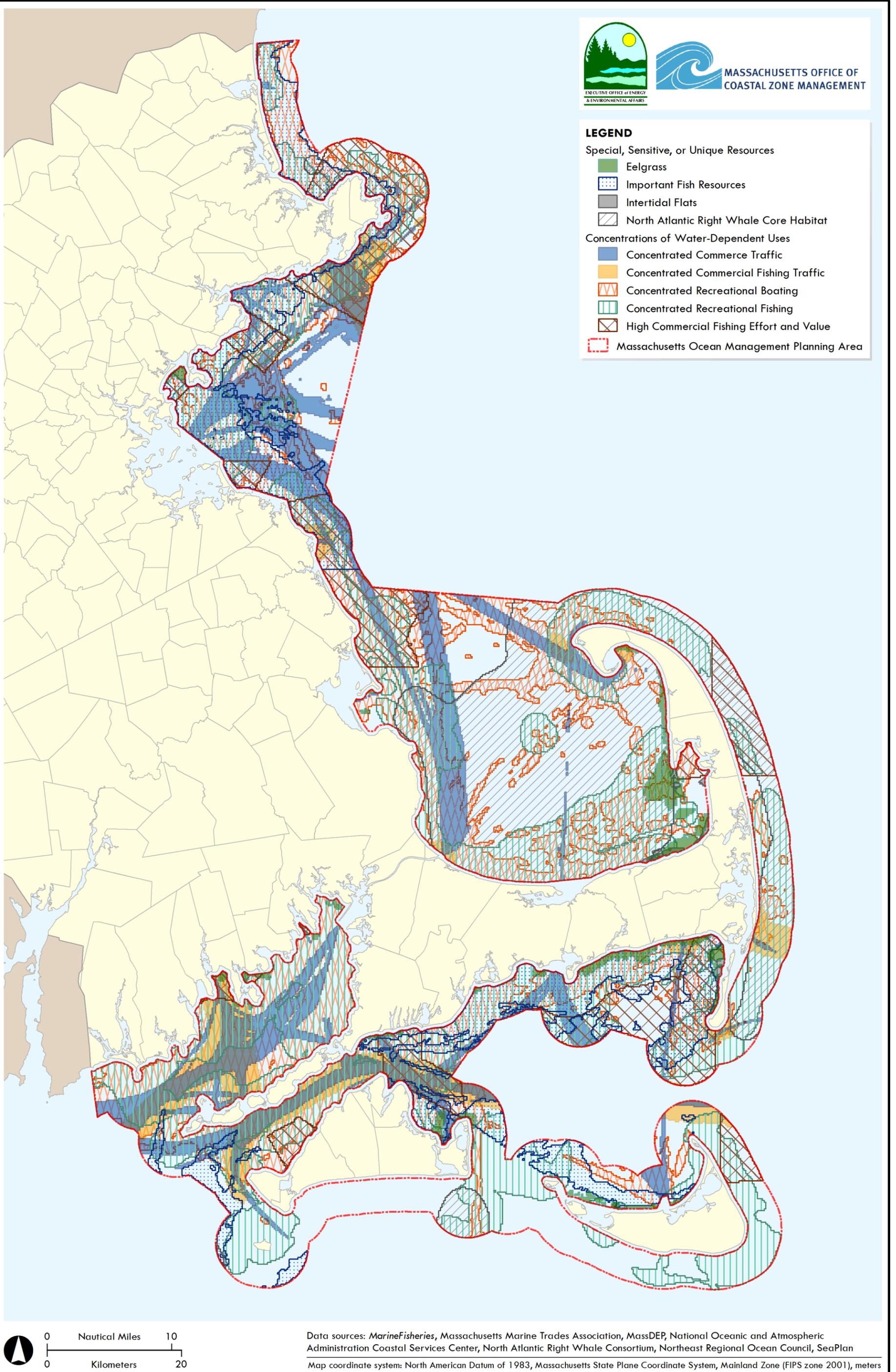


Figure 23. Special, sensitive, or unique resources and concentrations of water-dependent uses to be addressed for commercial-scale tidal energy facilities



MASSACHUSETTS OFFICE OF
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LEGEND

Number of Beach Nourishment Projects (1995-2014)

1-5

6-10

11-17

Massachusetts Ocean Management Planning Area

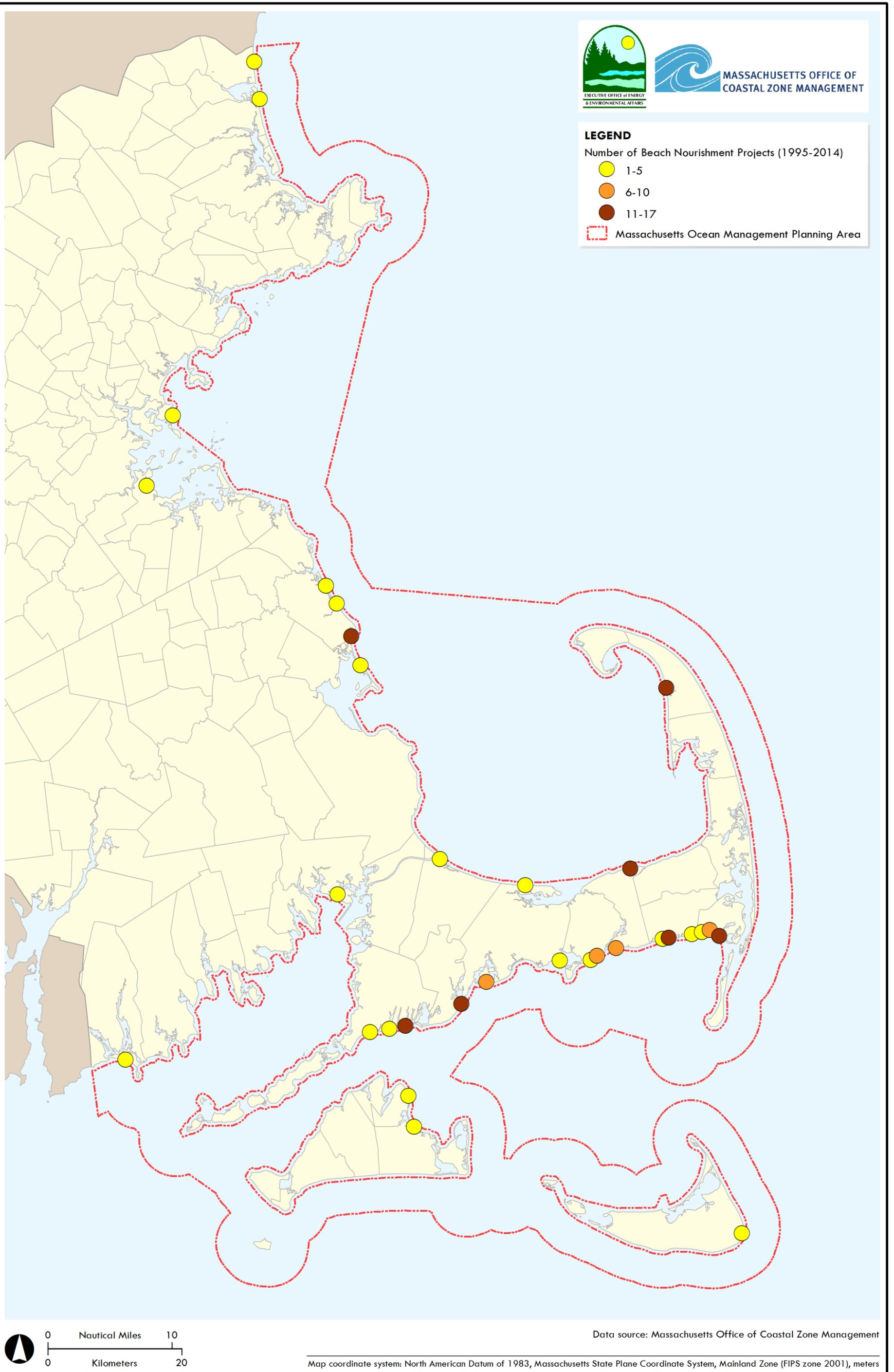


Figure 24. Beach nourishment projects in Massachusetts from 1995-2014



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

LEGEND

 Potential Sand Resources*

 Massachusetts Ocean Management Planning Area

*Shown in lighter shade outside the planning area

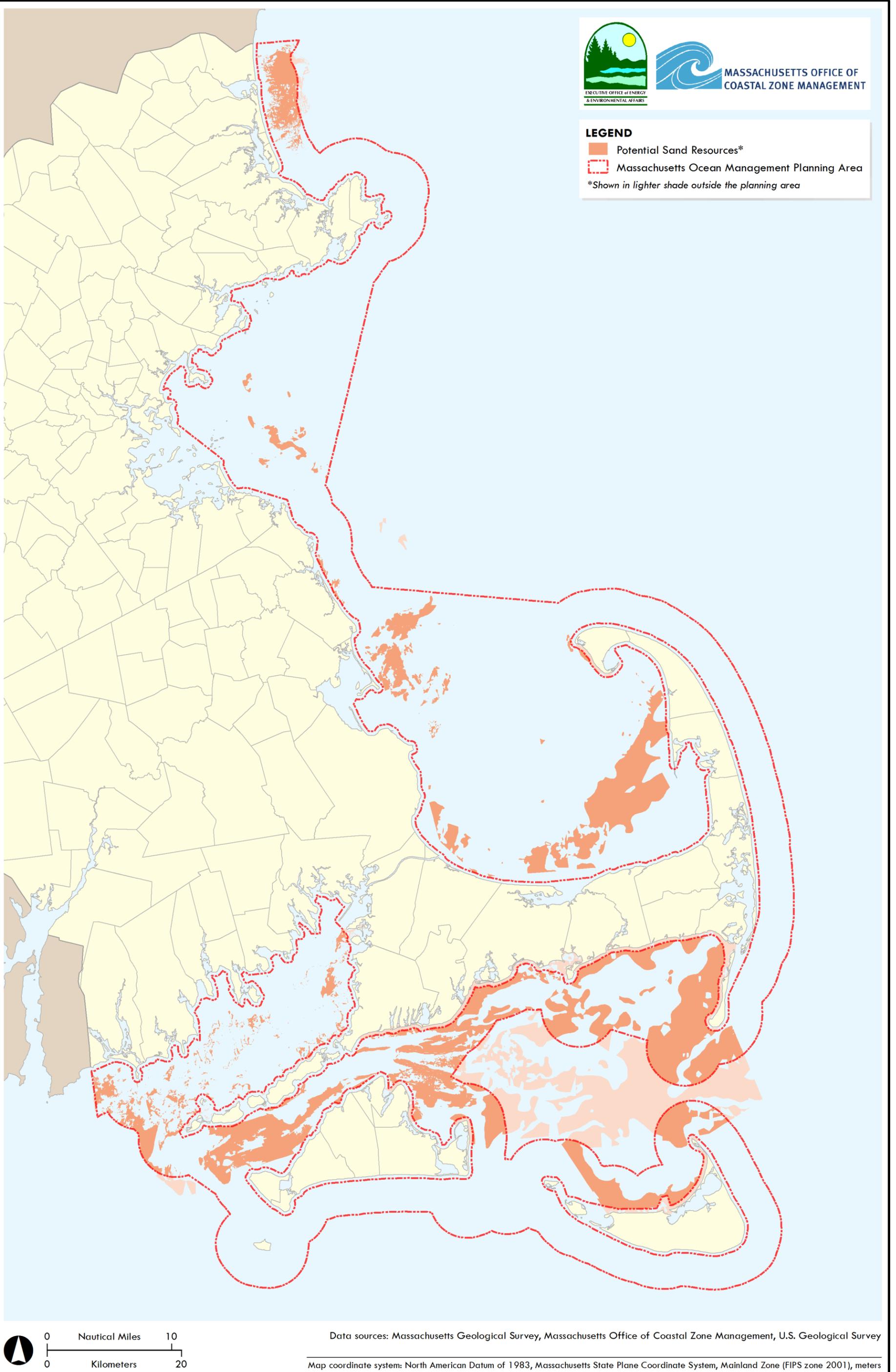


Figure 25. Potential sand resources



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LEGEND

Special, Sensitive, or Unique Resources

-  Eelgrass
-  Fin Whale Core Habitat
-  Hard/Complex Seafloor
-  Humpback Whale Core Habitat
-  Important Fish Resources
-  Intertidal Flats
-  North Atlantic Right Whale Core Habitat
-  Roseate Tern Core Habitat

Concentrations of Water-Dependent Uses

-  Concentrated Recreational Fishing
-  High Commercial Fishing Effort and Value
-  Massachusetts Ocean Management Planning Area

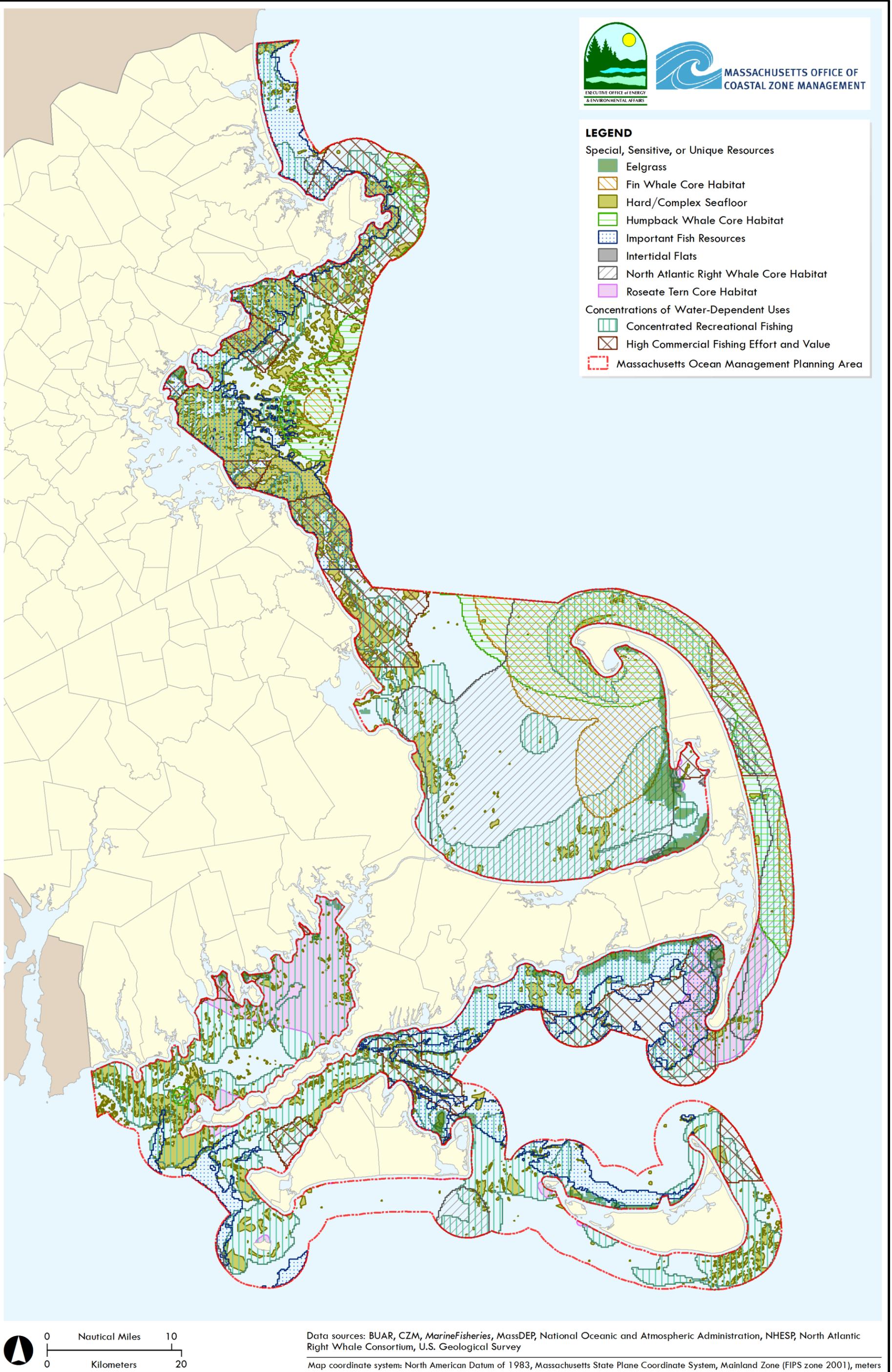


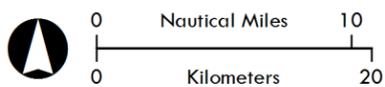
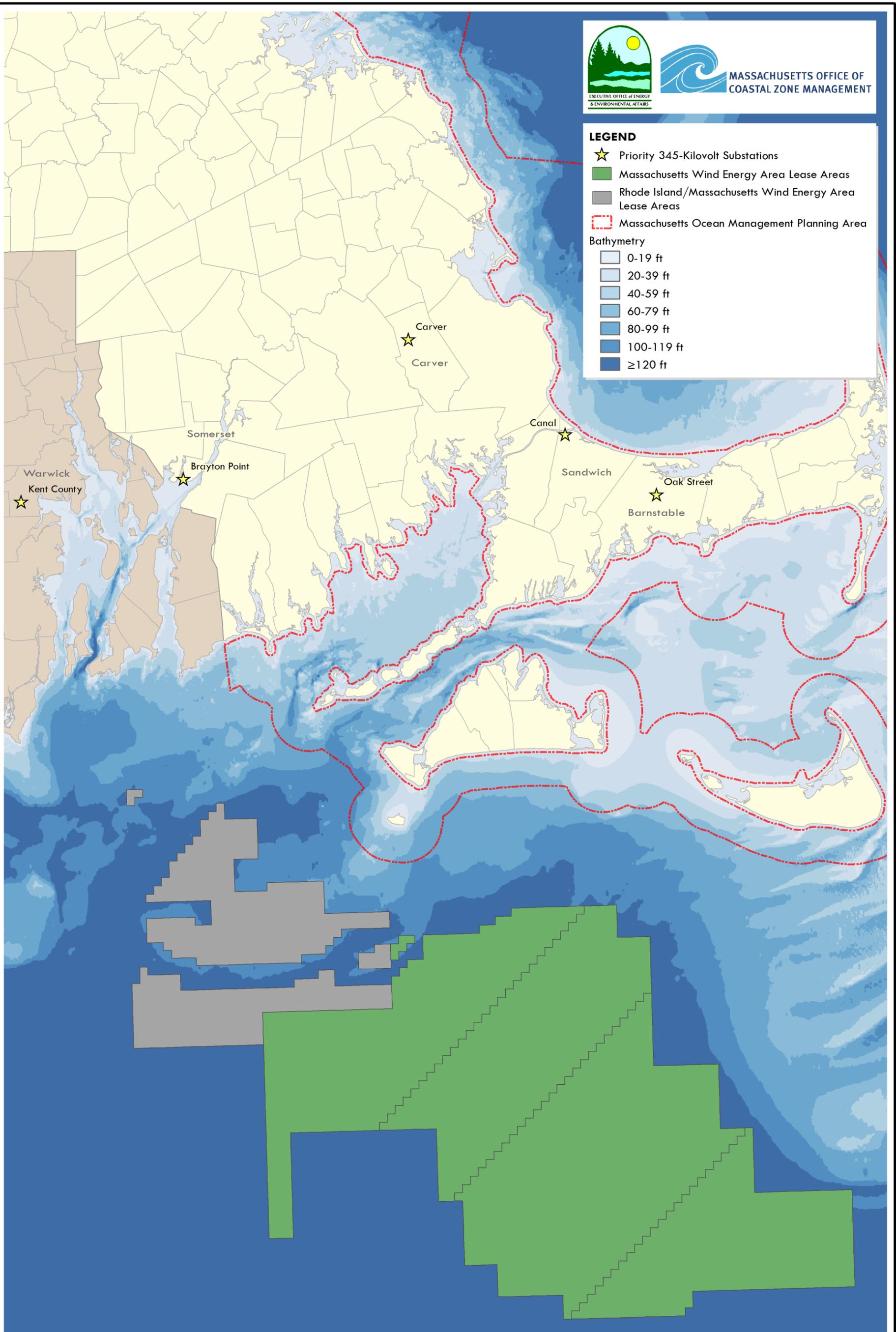
Figure 26. Special, sensitive, or unique resources and concentrations of water-dependent uses to be addressed for offshore sand projects for beach nourishment



MASSACHUSETTS OFFICE OF
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LEGEND

- ★ Priority 345-Kilovolt Substations
 - Massachusetts Wind Energy Area Lease Areas
 - Rhode Island/Massachusetts Wind Energy Area Lease Areas
 - ▭ Massachusetts Ocean Management Planning Area
- Bathymetry**
- 0-19 ft
 - 20-39 ft
 - 40-59 ft
 - 60-79 ft
 - 80-99 ft
 - 100-119 ft
 - ≥120 ft



Data sources: Bureau of Ocean Energy Management, Massachusetts Office of Coastal Zone Management, National Oceanic and Atmospheric Administration National Geophysical Data Center

Map coordinate system: North American Datum of 1983, Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters

Figure 27. Lease areas within the federal Wind Energy Areas and priority 345-kilovolt substations

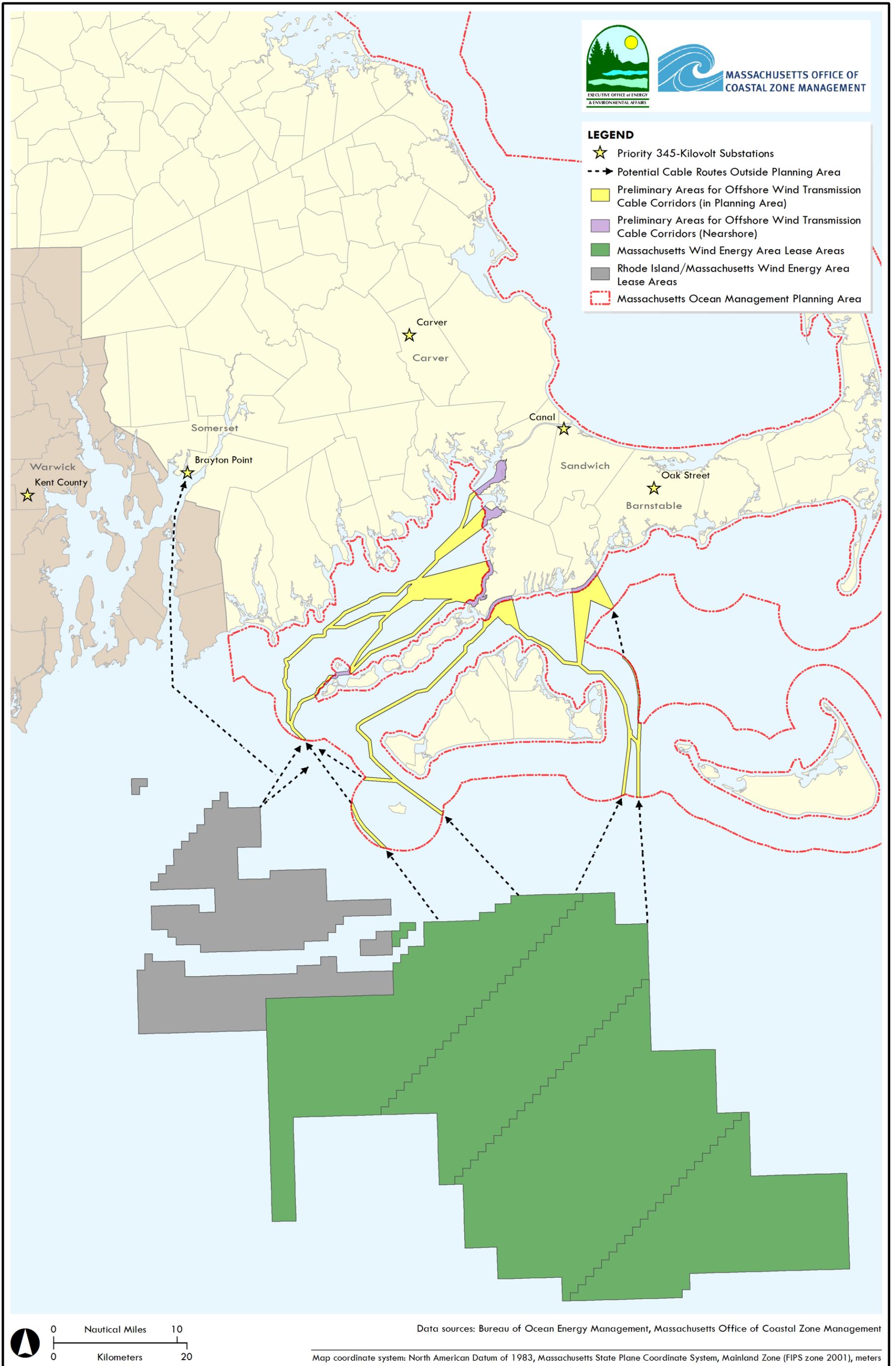


Figure 28. Preliminary areas for offshore wind transmission cable corridors

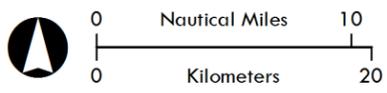
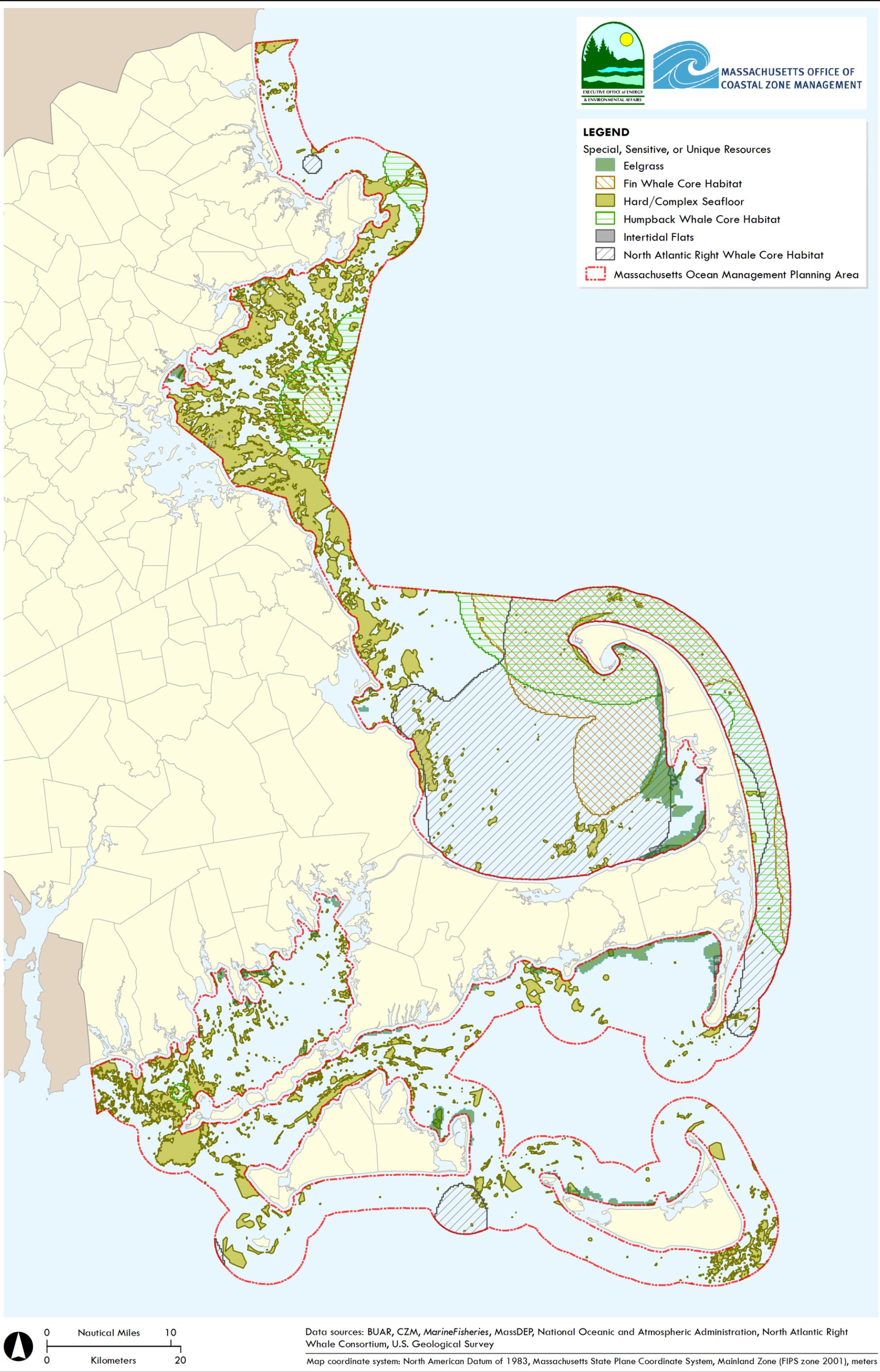


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LEGEND

Special, Sensitive, or Unique Resources

-  Eelgrass
-  Fin Whale Core Habitat
-  Hard/Complex Seafloor
-  Humpback Whale Core Habitat
-  Intertidal Flats
-  North Atlantic Right Whale Core Habitat
-  Massachusetts Ocean Management Planning Area



Data sources: BUAR, CZM, Marine Fisheries, MassDEP, National Oceanic and Atmospheric Administration, North Atlantic Right Whale Consortium, U.S. Geological Survey
Map coordinate system: North American Datum of 1983, Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters

Figure 29. Special, sensitive, or unique resources to be addressed for cables



MASSACHUSETTS OFFICE OF
COASTAL ZONE MANAGEMENT

LEGEND

Special, Sensitive, or Unique Resources

-  Eelgrass
-  Fin Whale Core Habitat
-  Hard/Complex Seafloor
-  Humpback Whale Core Habitat
-  Important Fish Resources
-  Intertidal Flats
-  North Atlantic Right Whale Core Habitat

Concentrations of Water-Dependent Uses

-  Concentrated Recreational Fishing
-  High Commercial Fishing Effort and Value
-  Massachusetts Ocean Management Planning Area

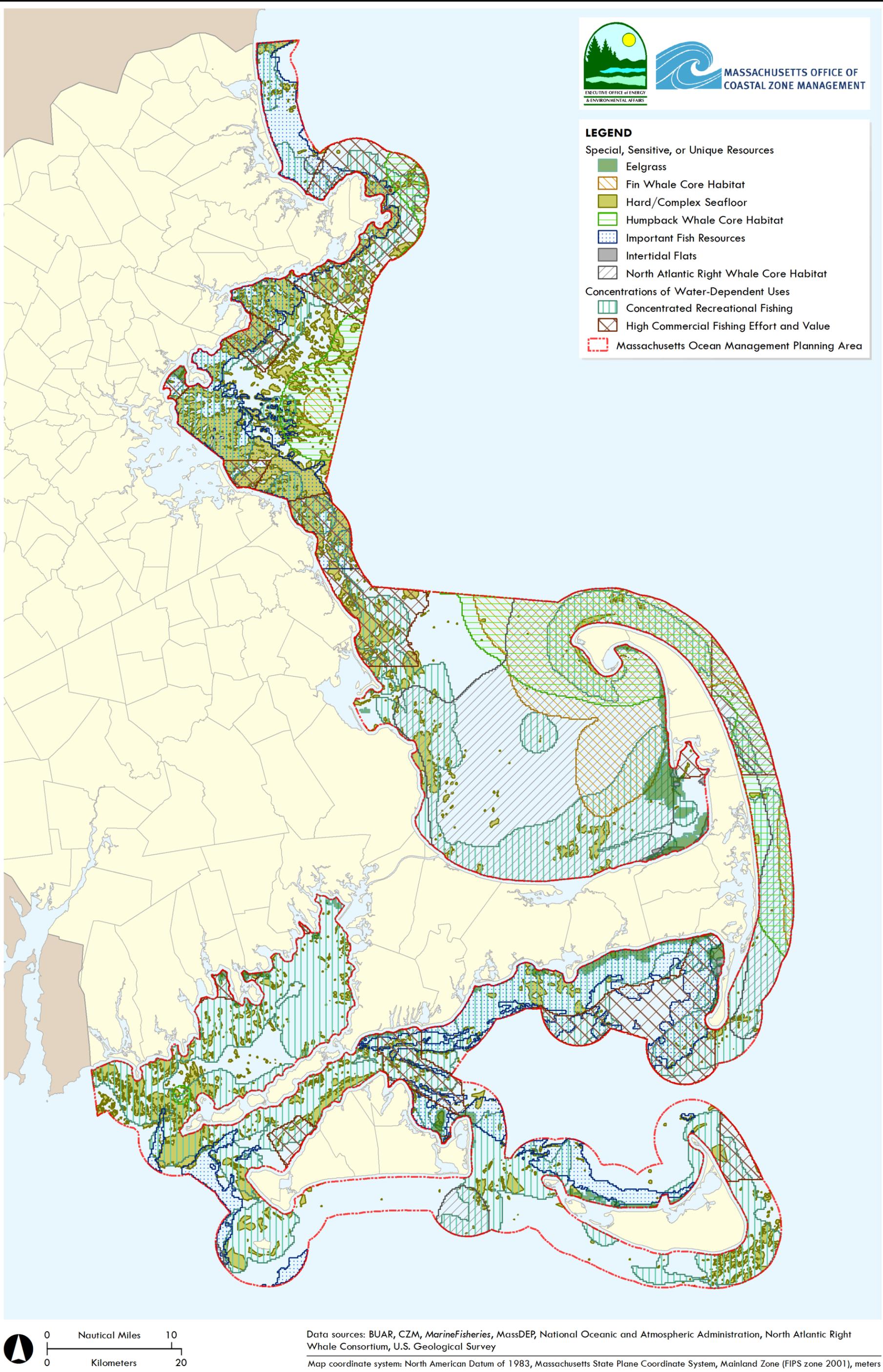


Figure 30. Special, sensitive, or unique resources and concentrations of water-dependent uses to be addressed for pipelines