Volume 1 – Figures

11” x 17”

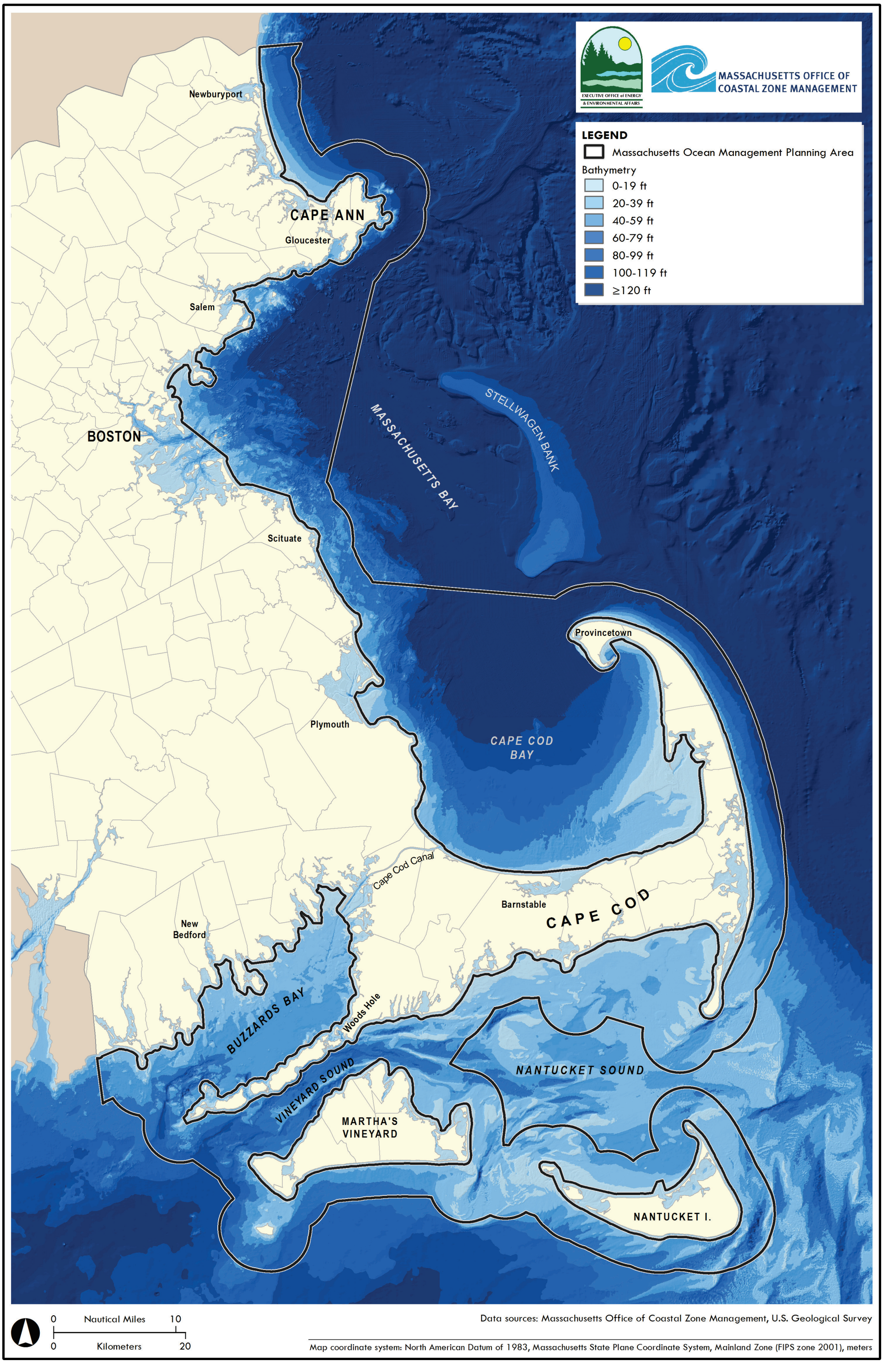

Figure 1. Massachusetts ocean management planning area

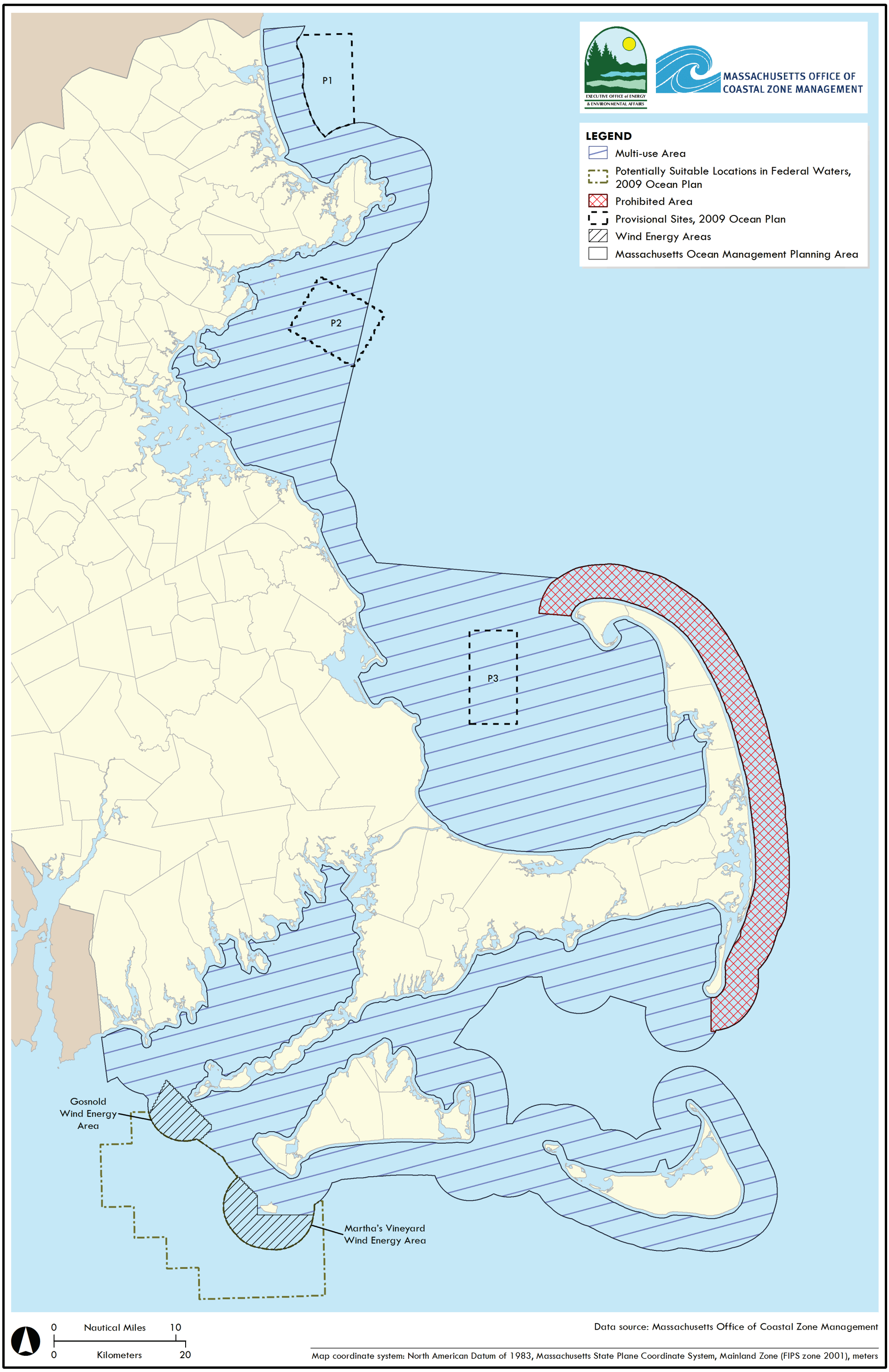

Figure 2. Management areas designated in the 2009 ocean plan

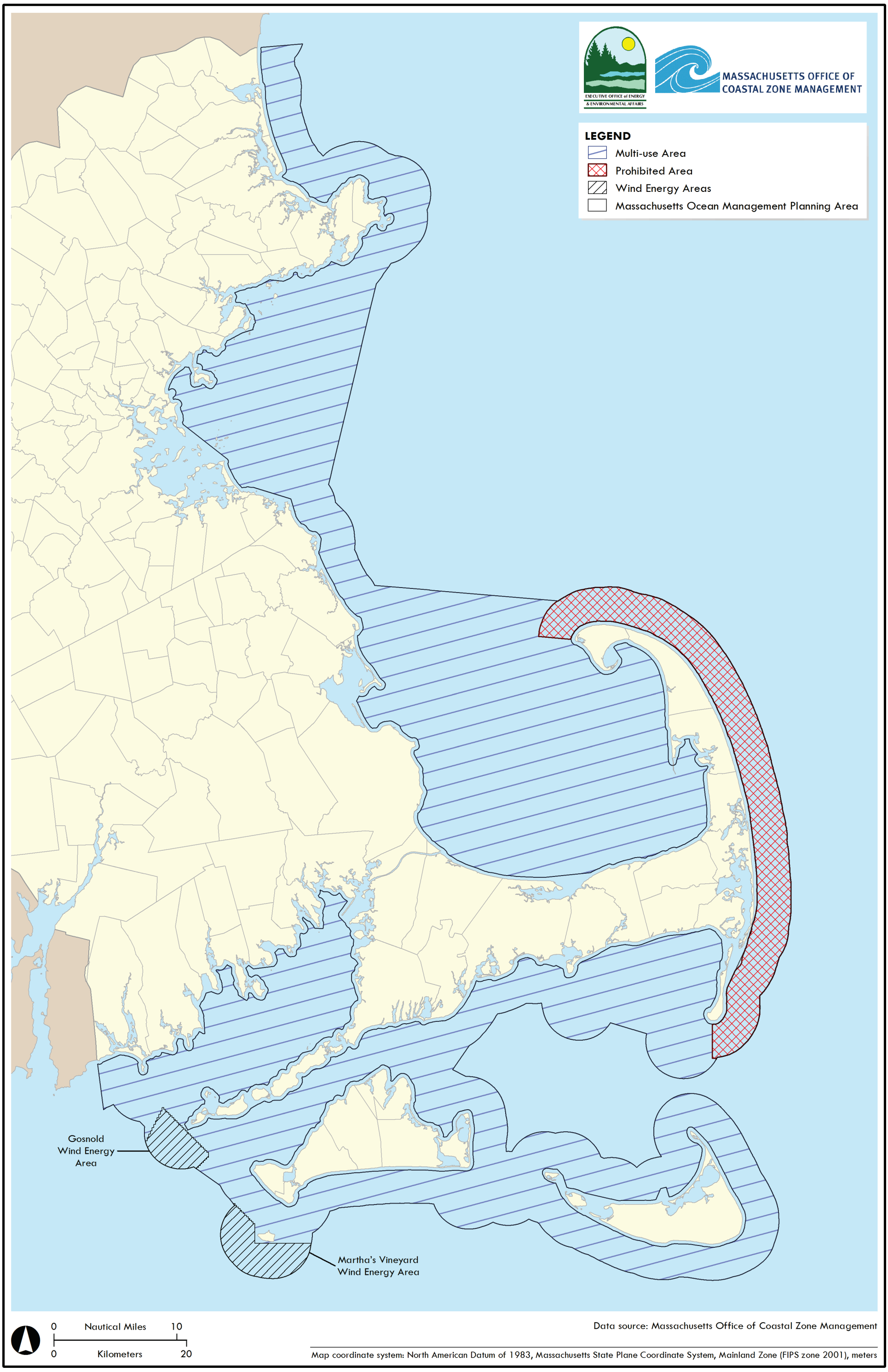

Figure 3. Management areas designated in the 2014 draft ocean plan

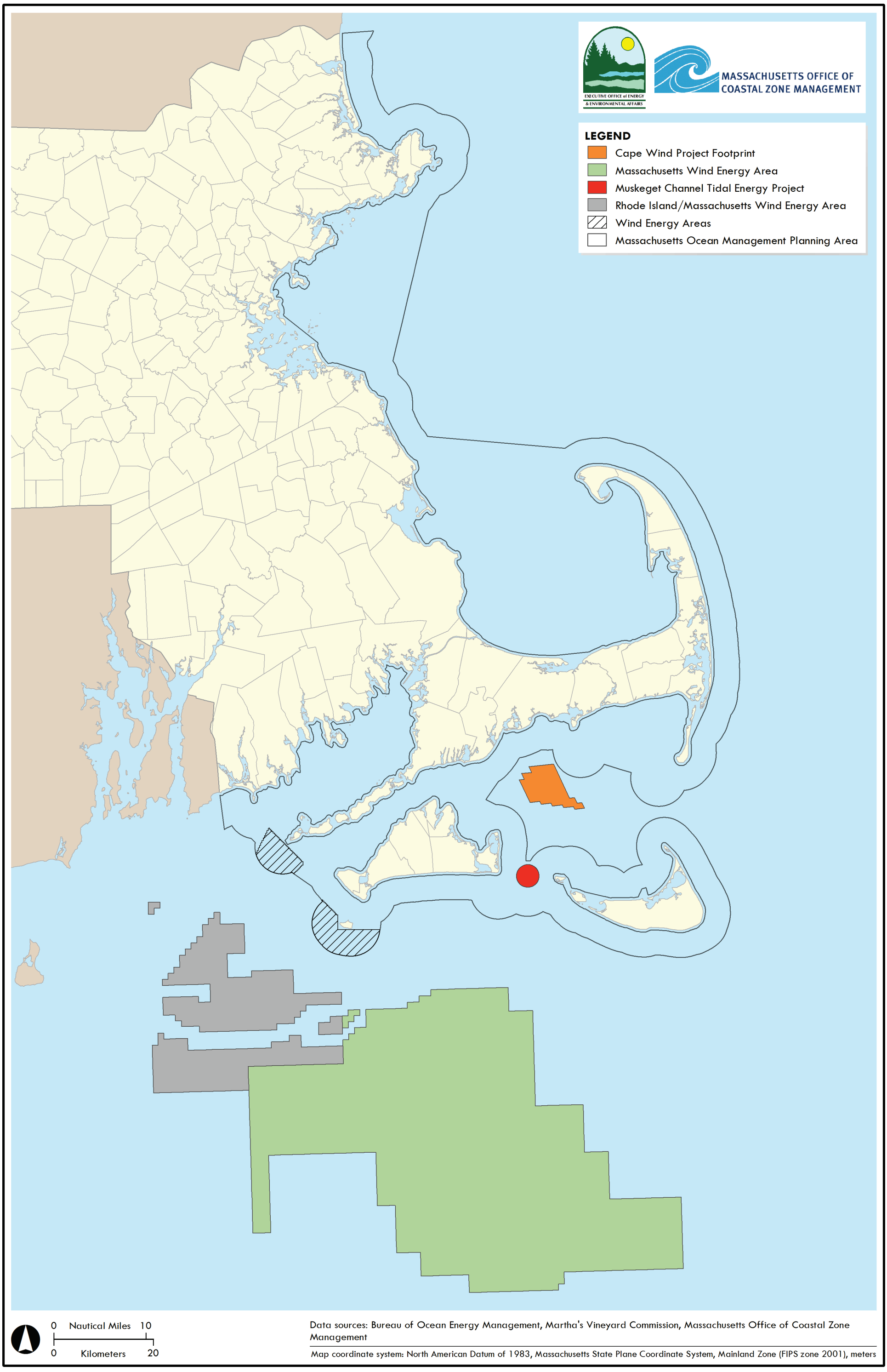

Figure 4. Renewable energy areas in the planning area and adjacent federal waters

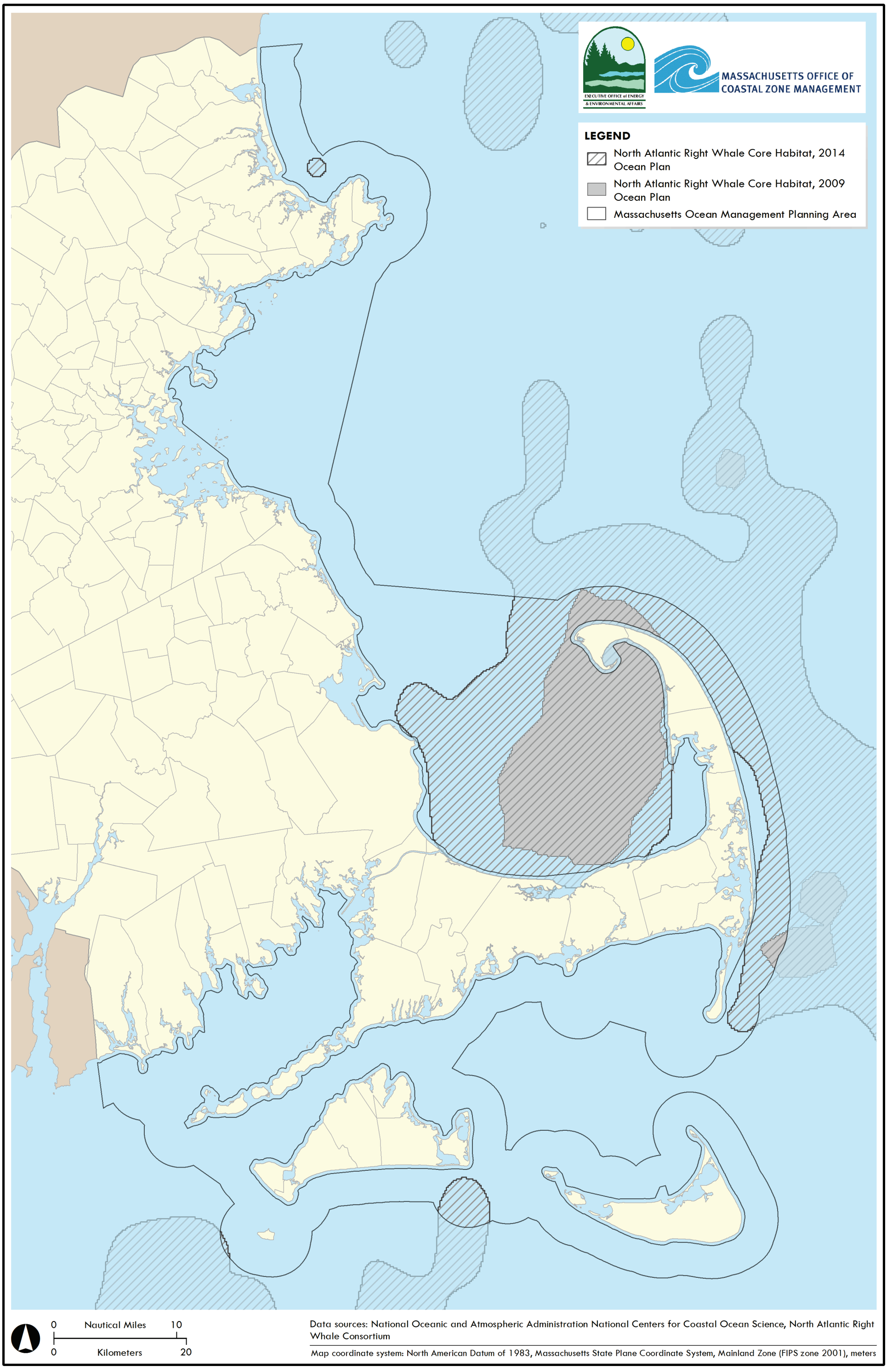

Figure 5. Special, sensitive, or unique resource: North Atlantic right whale core habitat 2009 and 2014

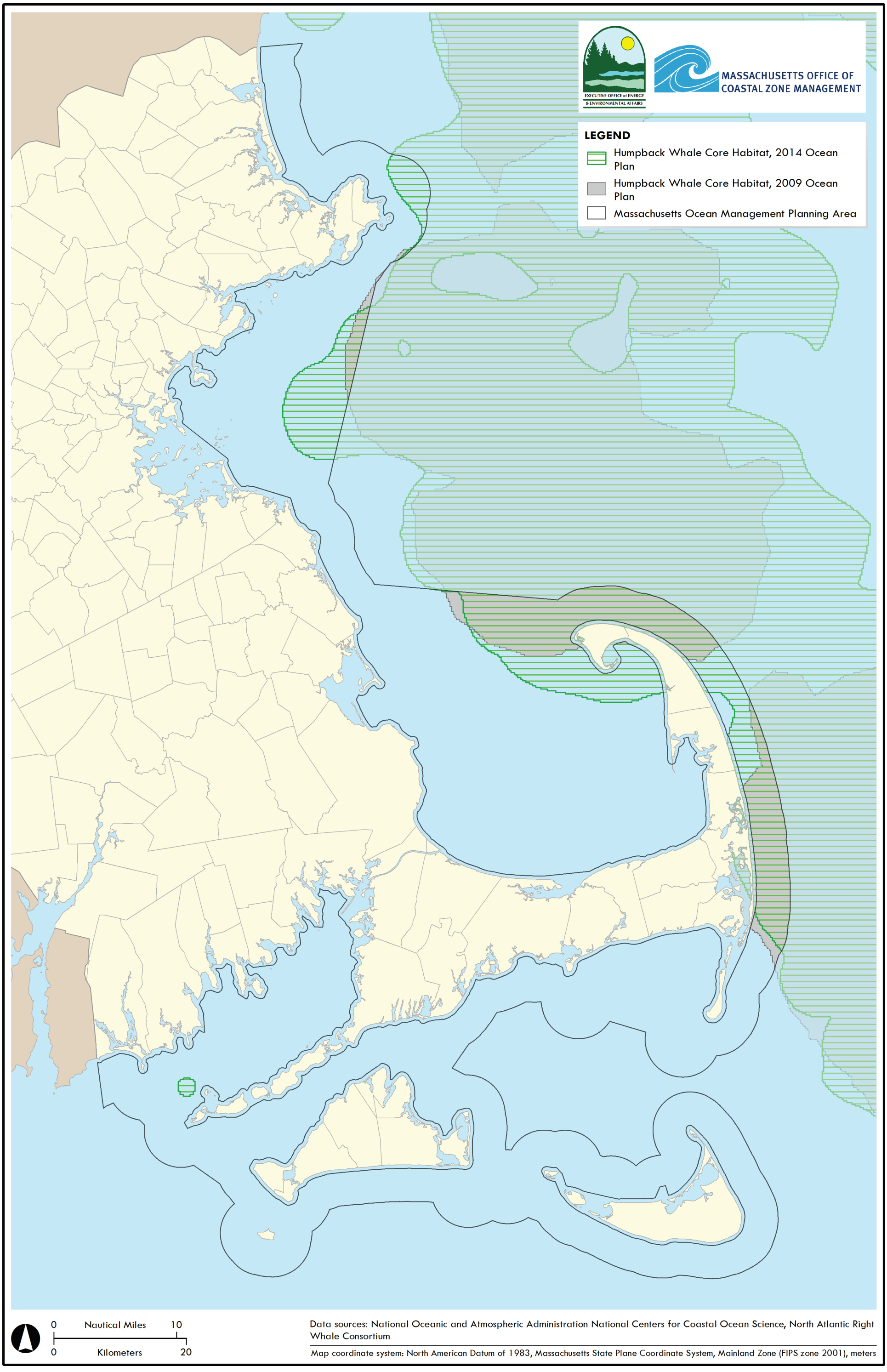

Figure 6. Special, sensitive, or unique resource: humpback whale core habitat 2009 and 2014

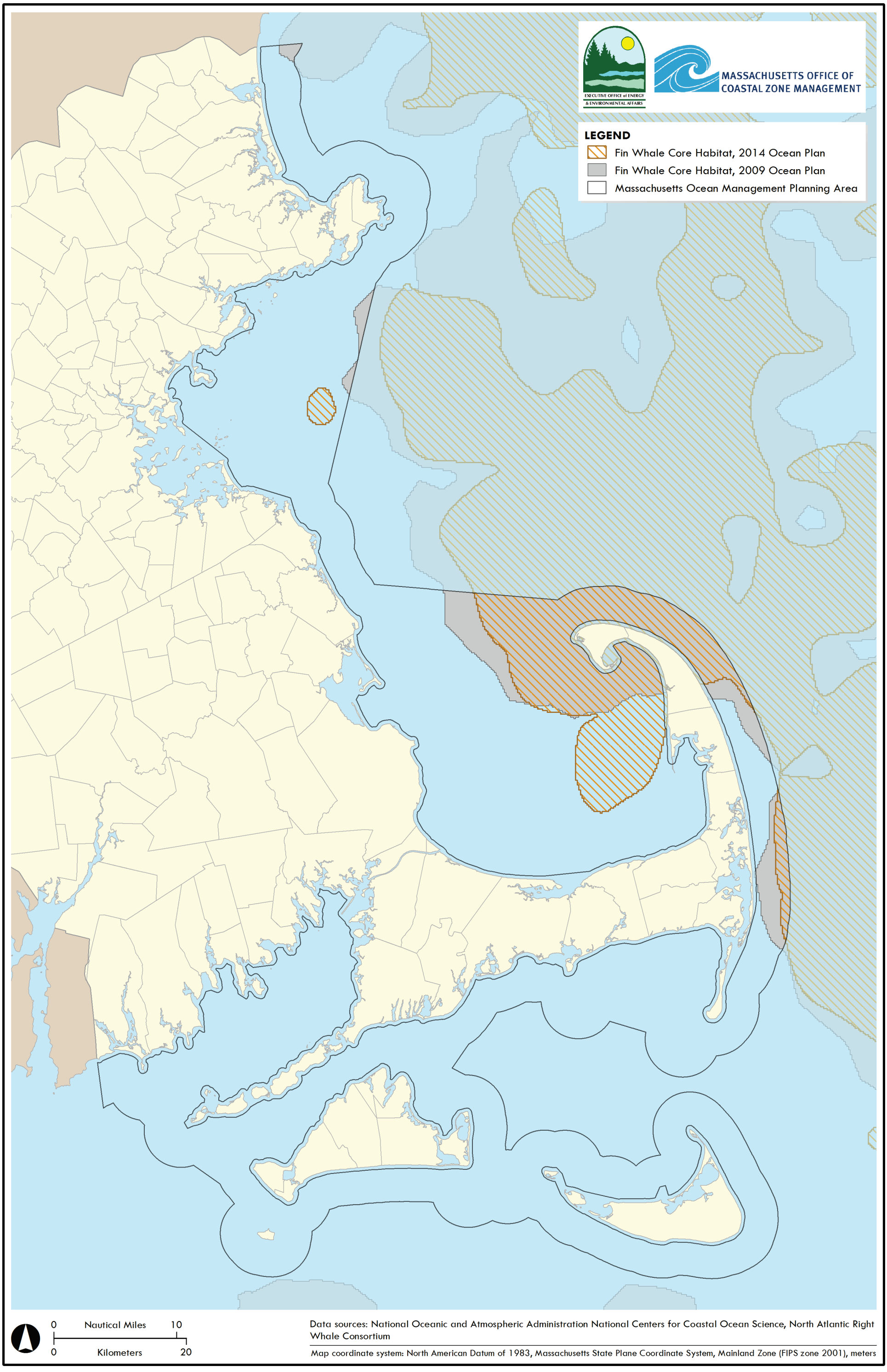

Figure 7. Special, sensitive, or unique resource: fin whale core habitat 2009 and 2014

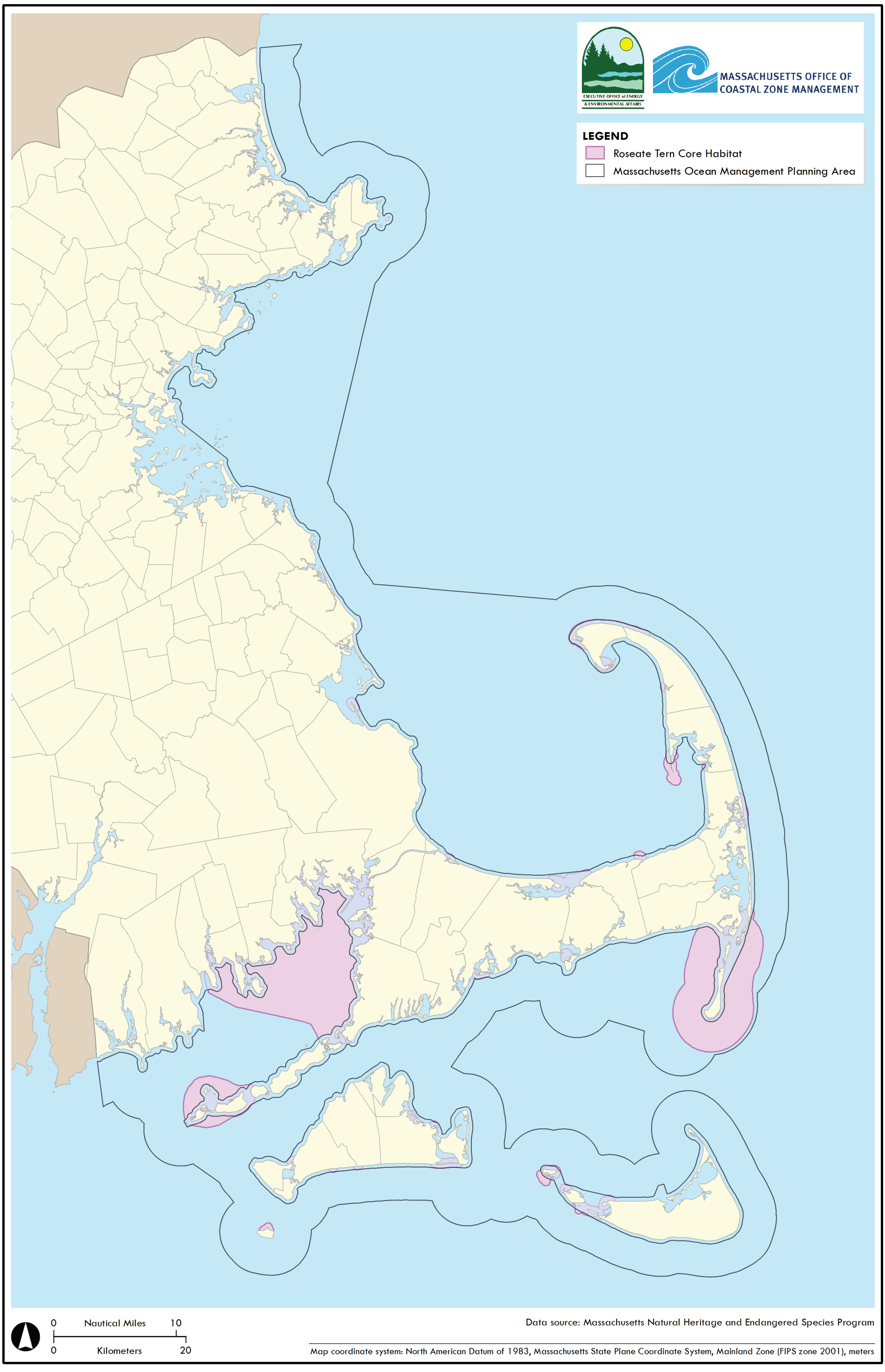

Figure 8. Special, sensitive, or unique resource: Roseate Tern core habitat

Figure 9. Special, sensitive, or unique resource: special concern (Arctic, Least, and Common) tern core habitat

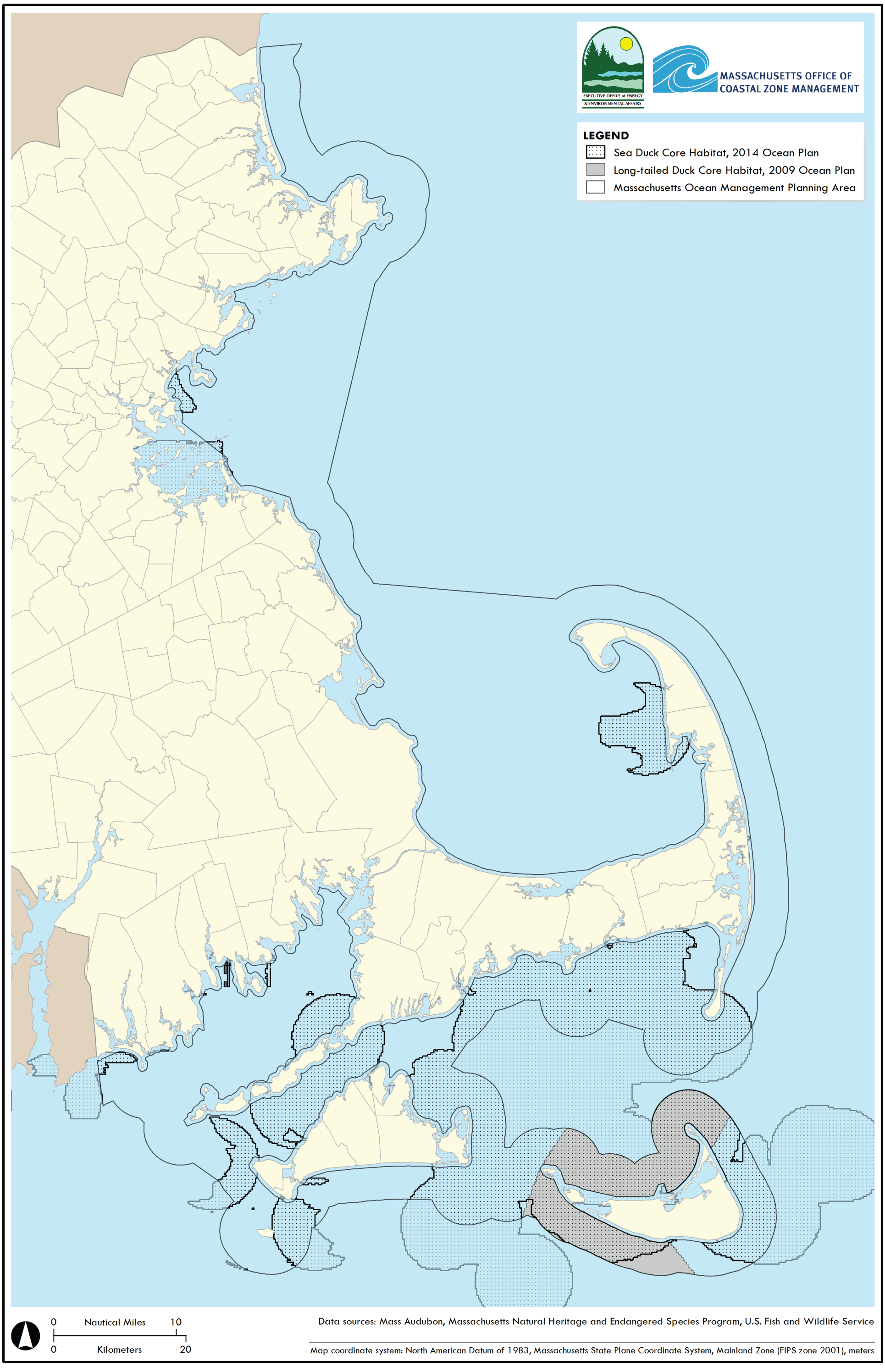

Figure 10. Special, sensitive, or unique resource: sea duck core habitat 2009 and 2014 (formerly mapped as Long-tailed Duck core habitat in 2009 ocean plan)

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Figure 11. Special, sensitive, or unique resource: Leach's Storm-Petrel important nesting habitat

Figure 12. Special, sensitive, or unique resource: colonial waterbirds important nesting habitat

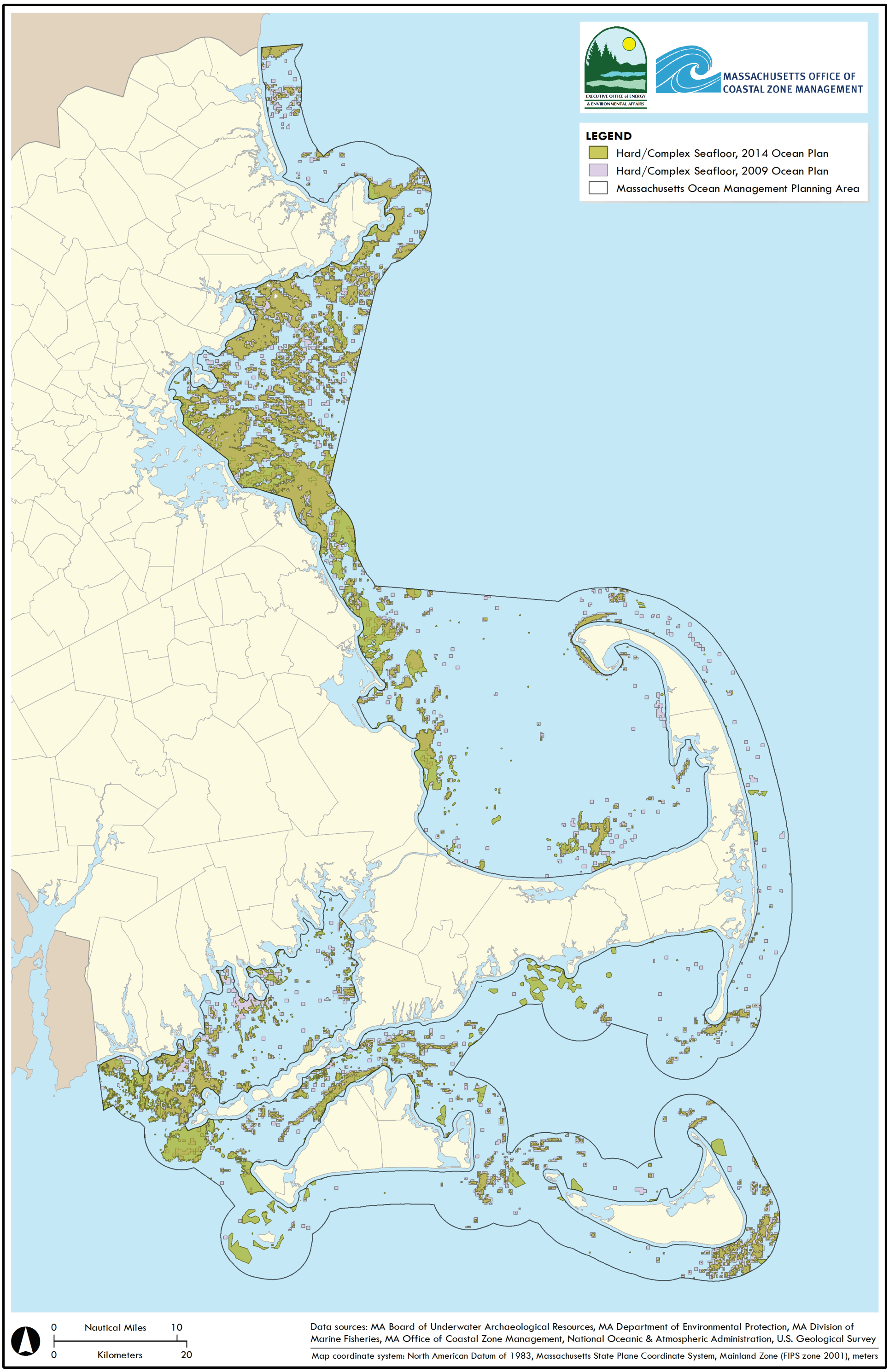

Figure 13. Special, sensitive, or unique resource: hard/complex seafloor 2009 and 2014

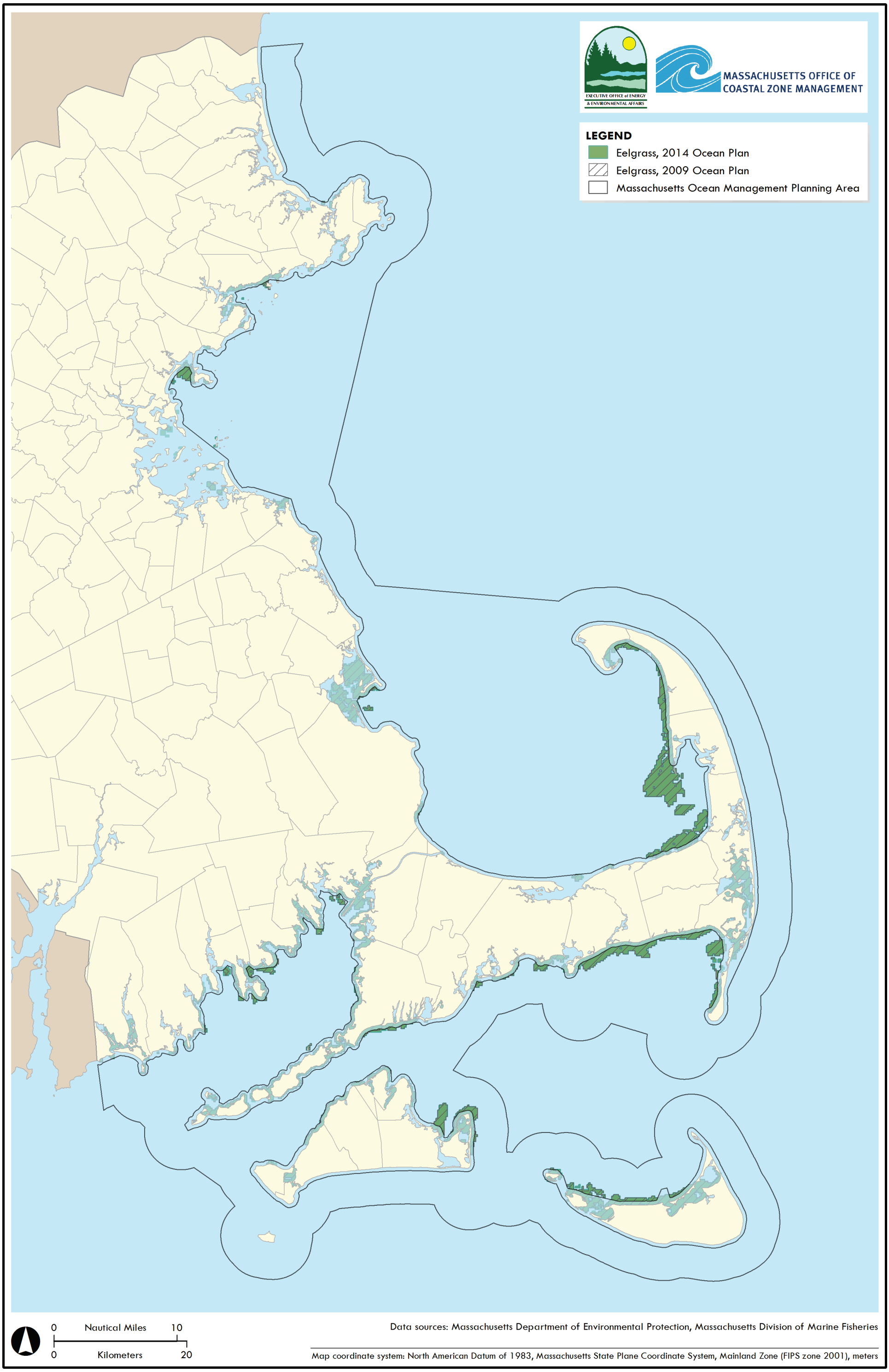

Figure 14. Special, sensitive, or unique resource: eelgrass 2009 and 2014

Figure 15. Special, sensitive, or unique resource: intertidal flats 2009 and 2014

Figure 16. Special, sensitive, or unique resource: important fish resources

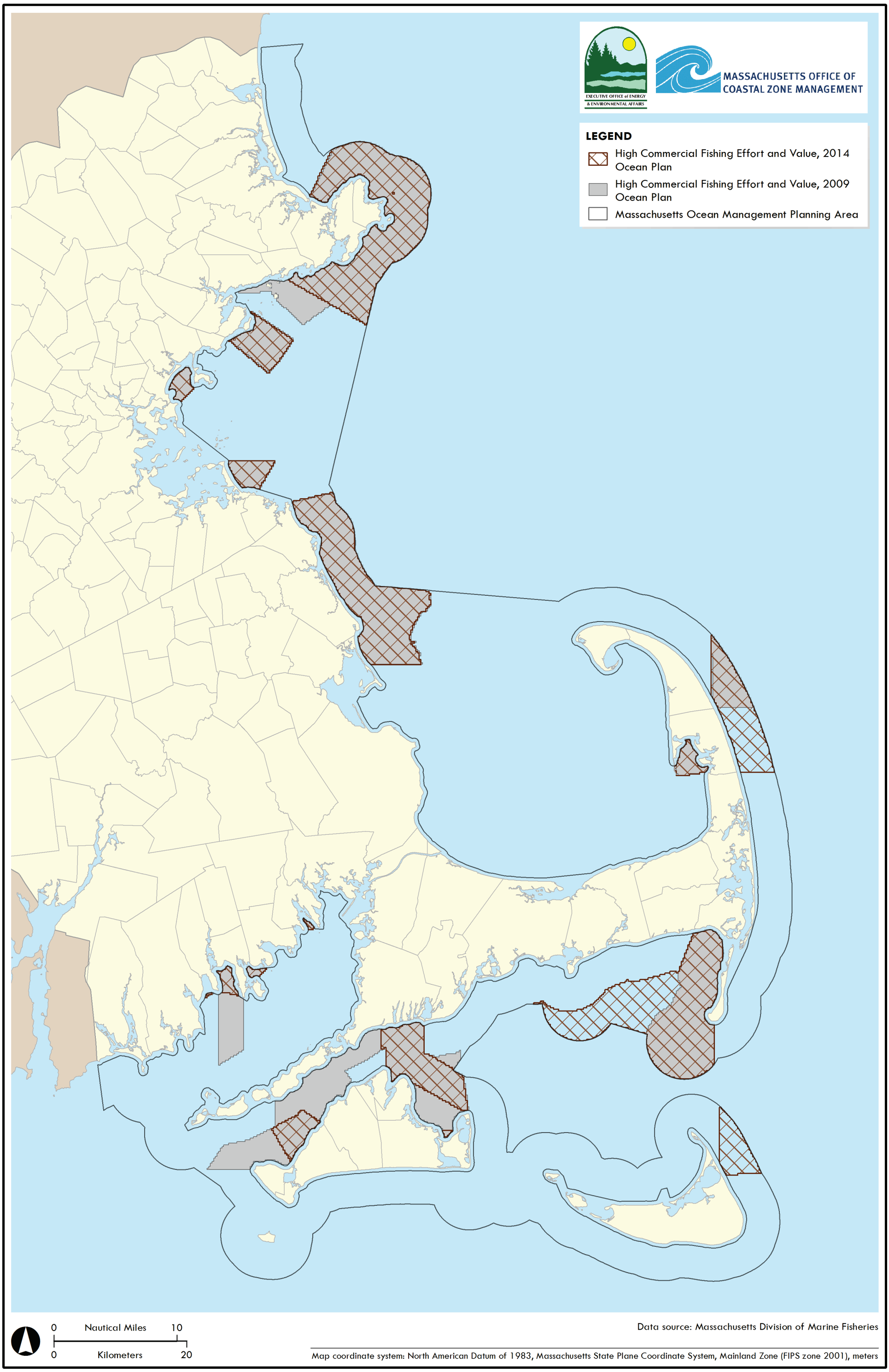

Figure 17. Concentrations of water-dependent use area: high commercial fishing effort and value 2009 and 2014

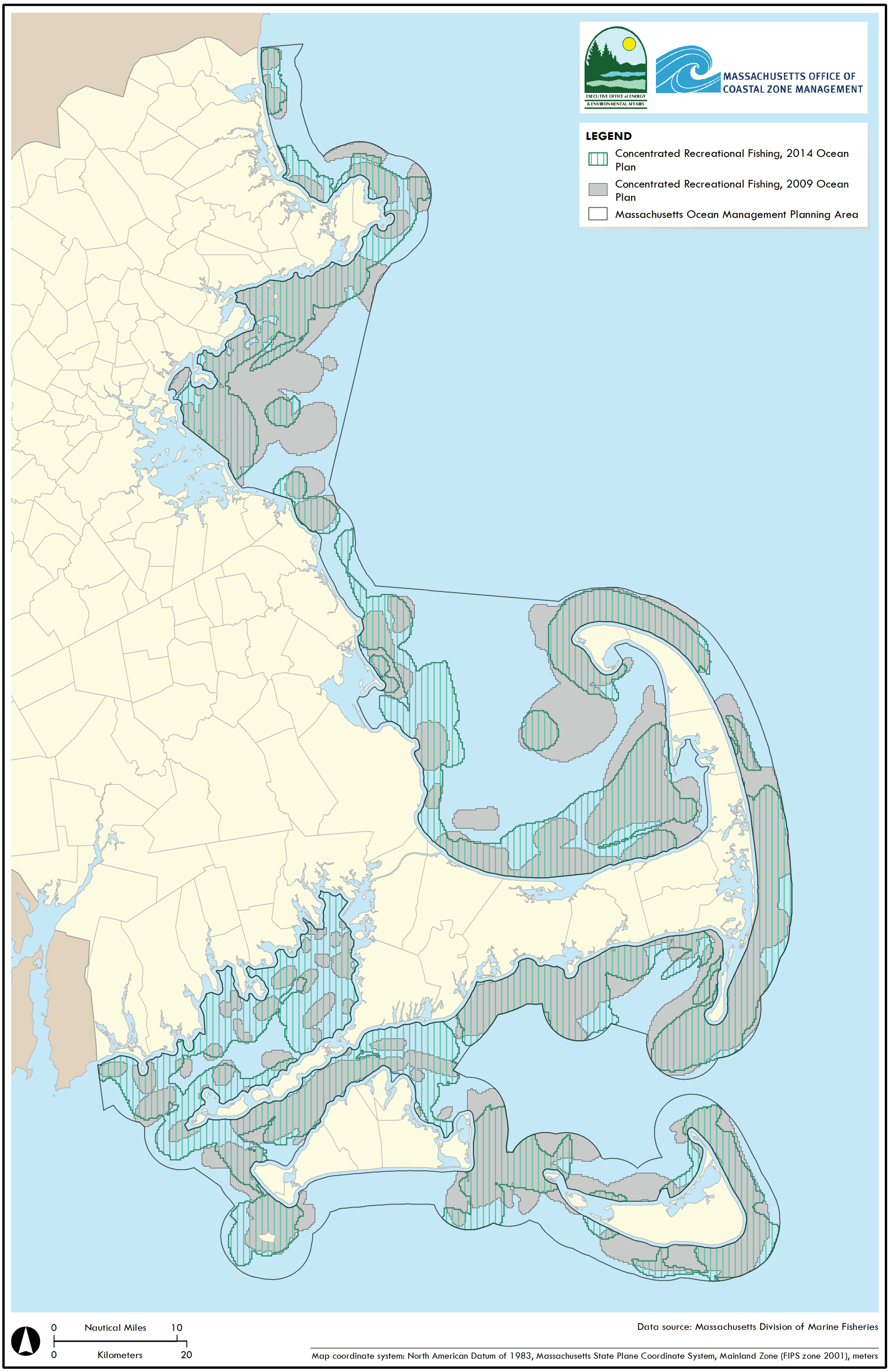

Figure 18. Concentrations of water-dependent use area: concentrated recreational fishing 2009 and 2014

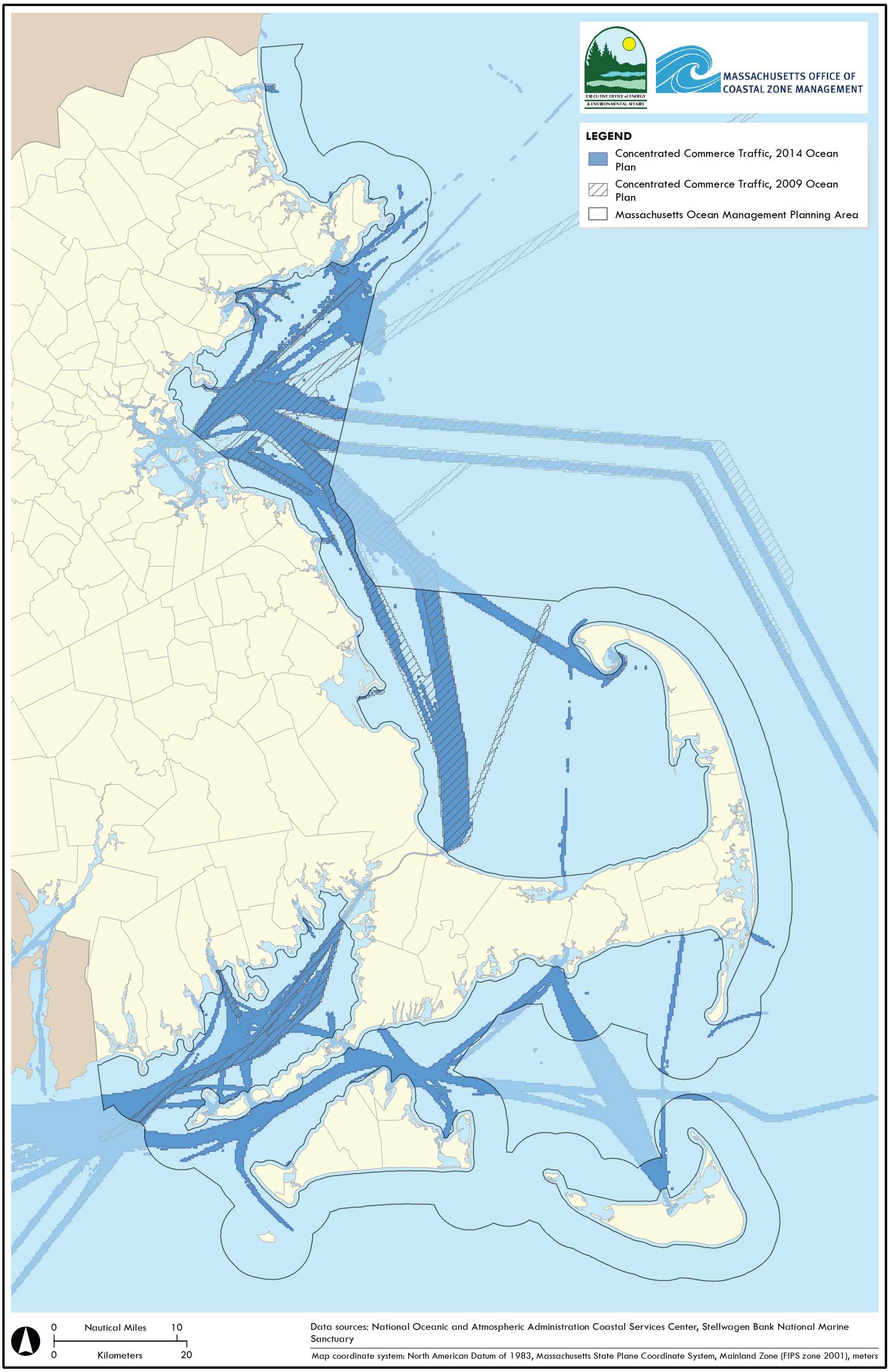

Figure 19. Concentrations of water-dependent use area: concentrated commerce traffic 2009 and 2014

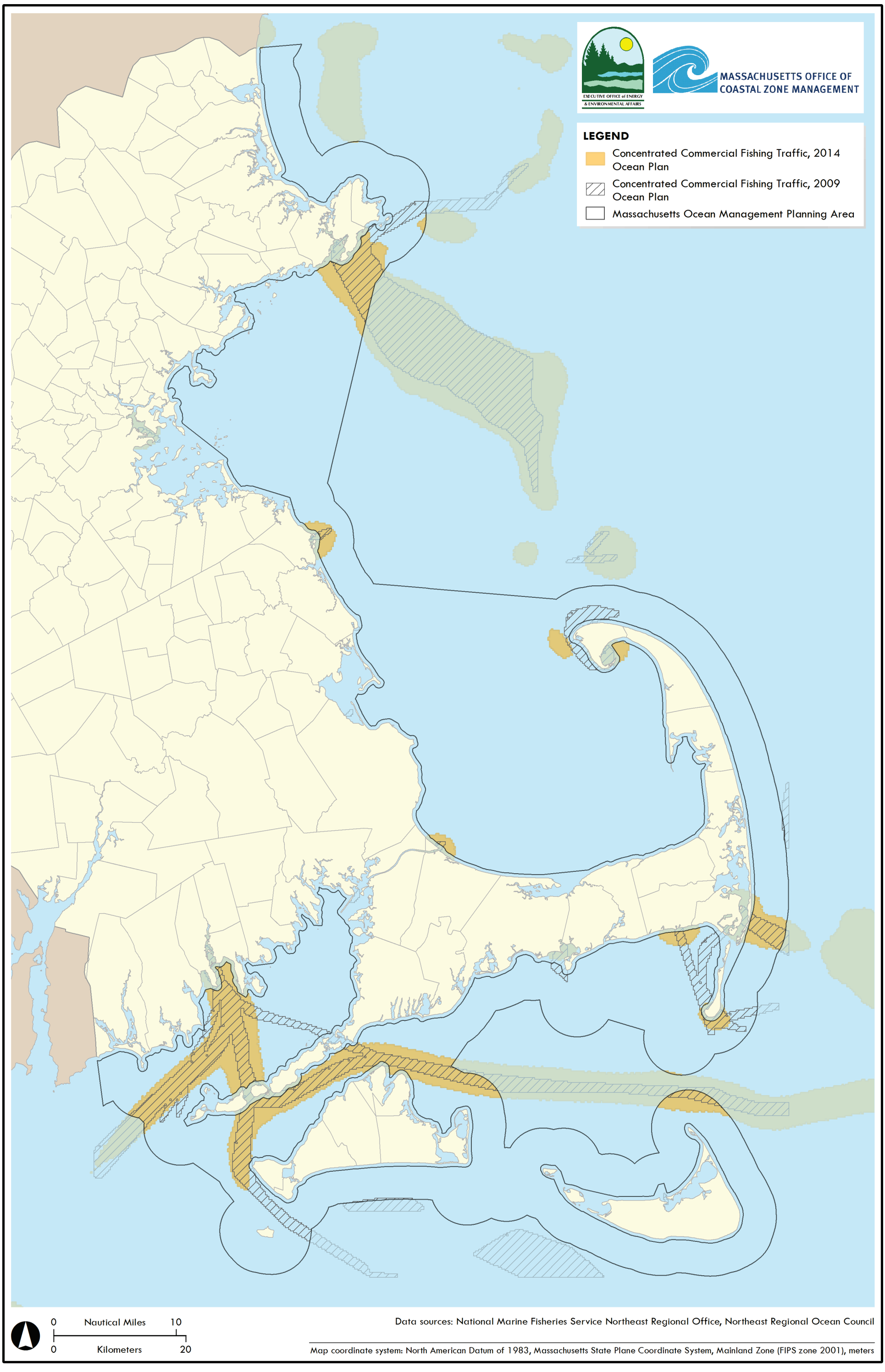

Figure 20. Concentrations of water-dependent use area: concentrated commercial fishing traffic 2009 and 2014

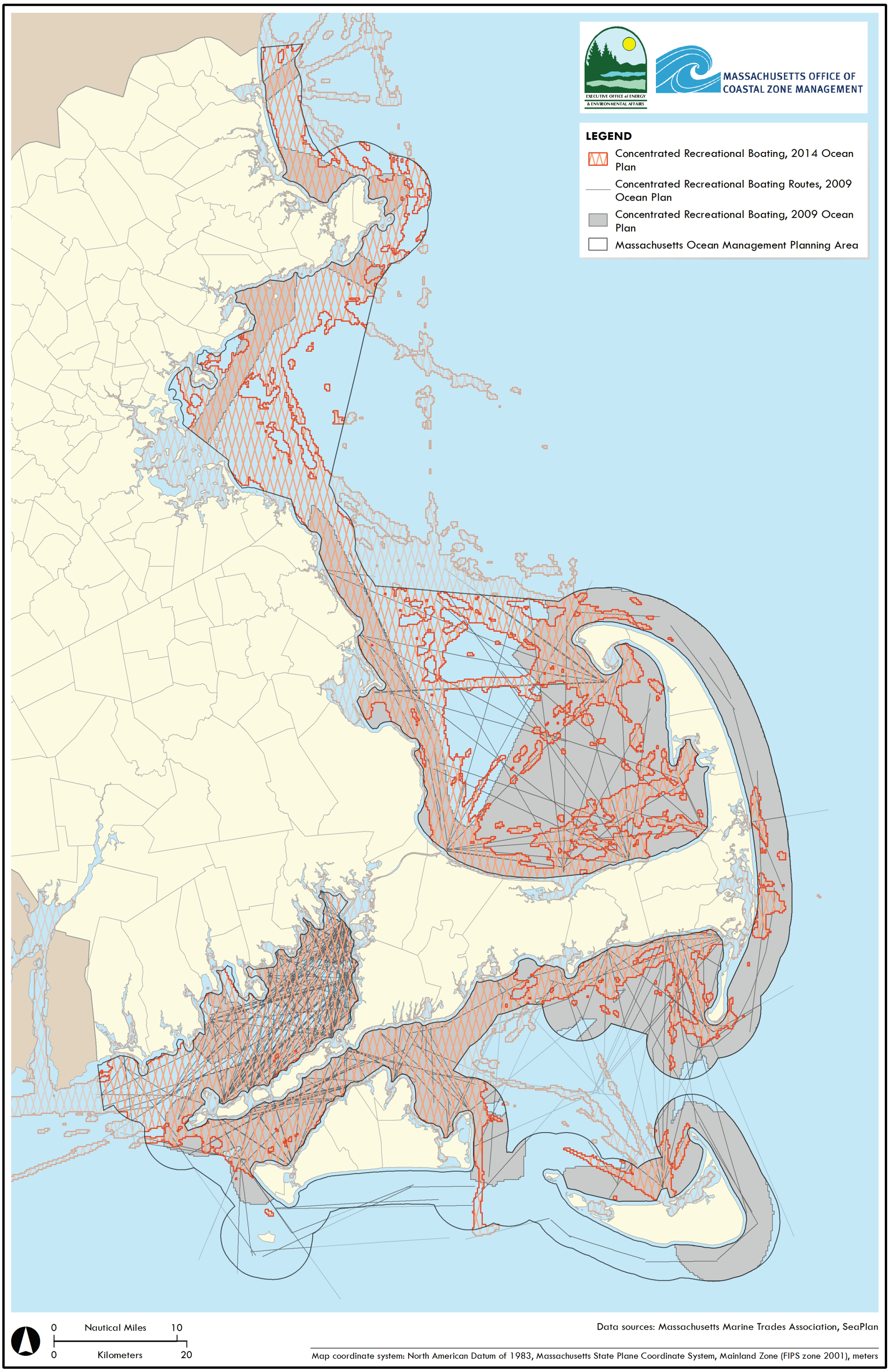

Figure 21. Concentrations of water-dependent use area: concentrated recreational boating 2009 and 2014

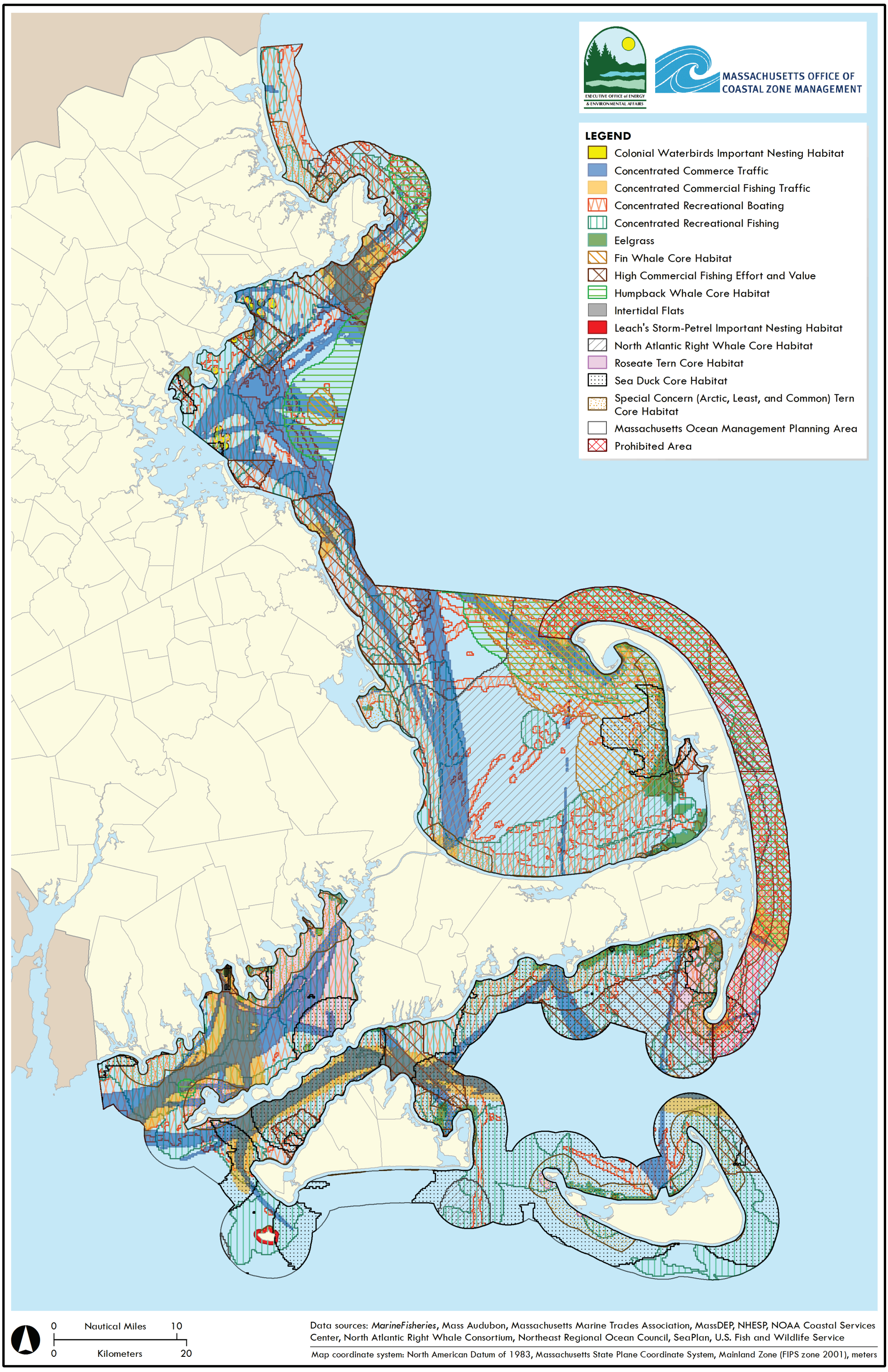

Figure 22. Special, sensitive, or unique resources and concentrations of water-dependent uses to be addressed for community-scale wind energy facilities

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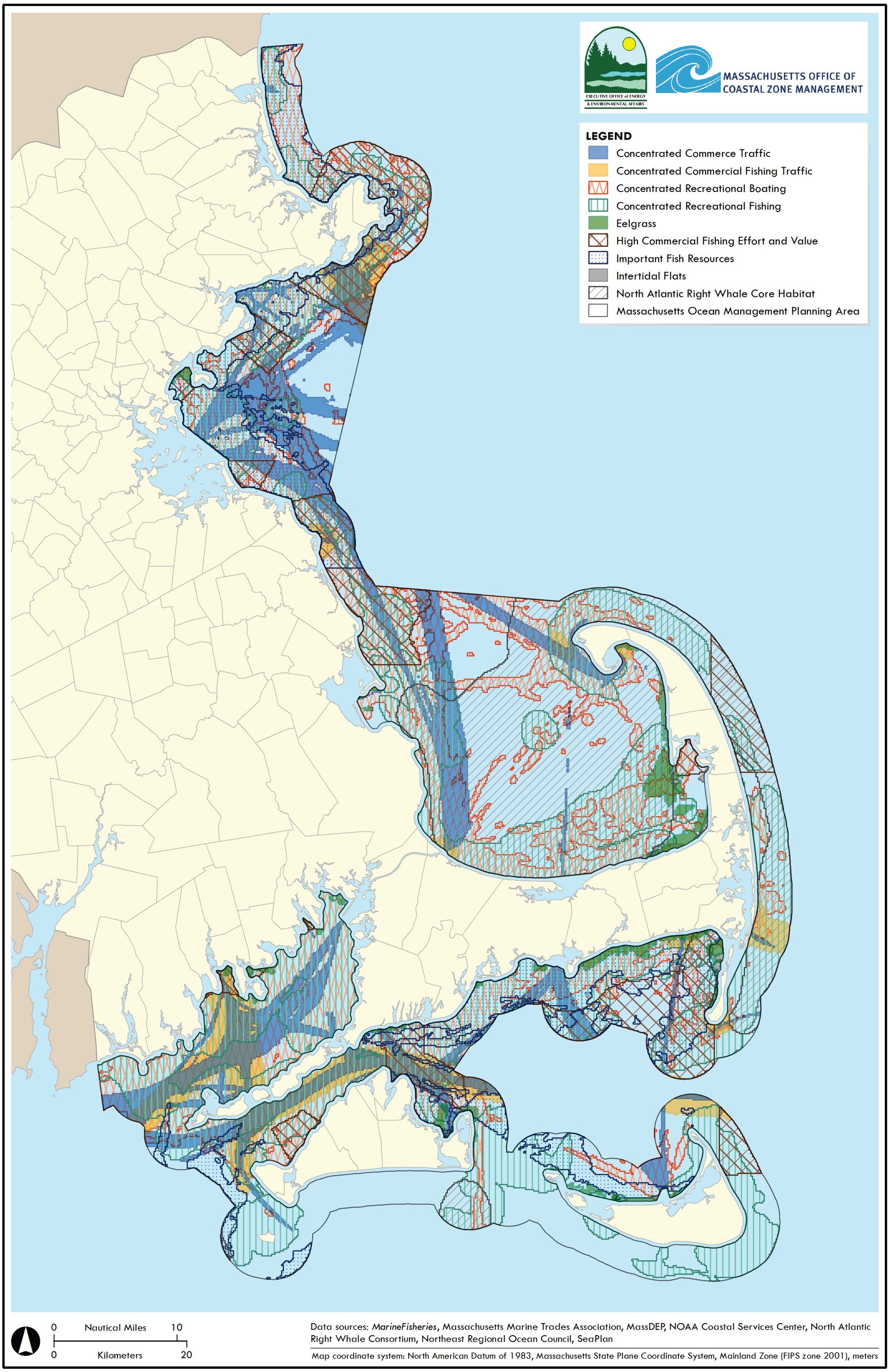

Figure 23. Special, sensitive, or unique resources and concentrations of water-dependent uses to be addressed for commercial-scale tidal energy facilities

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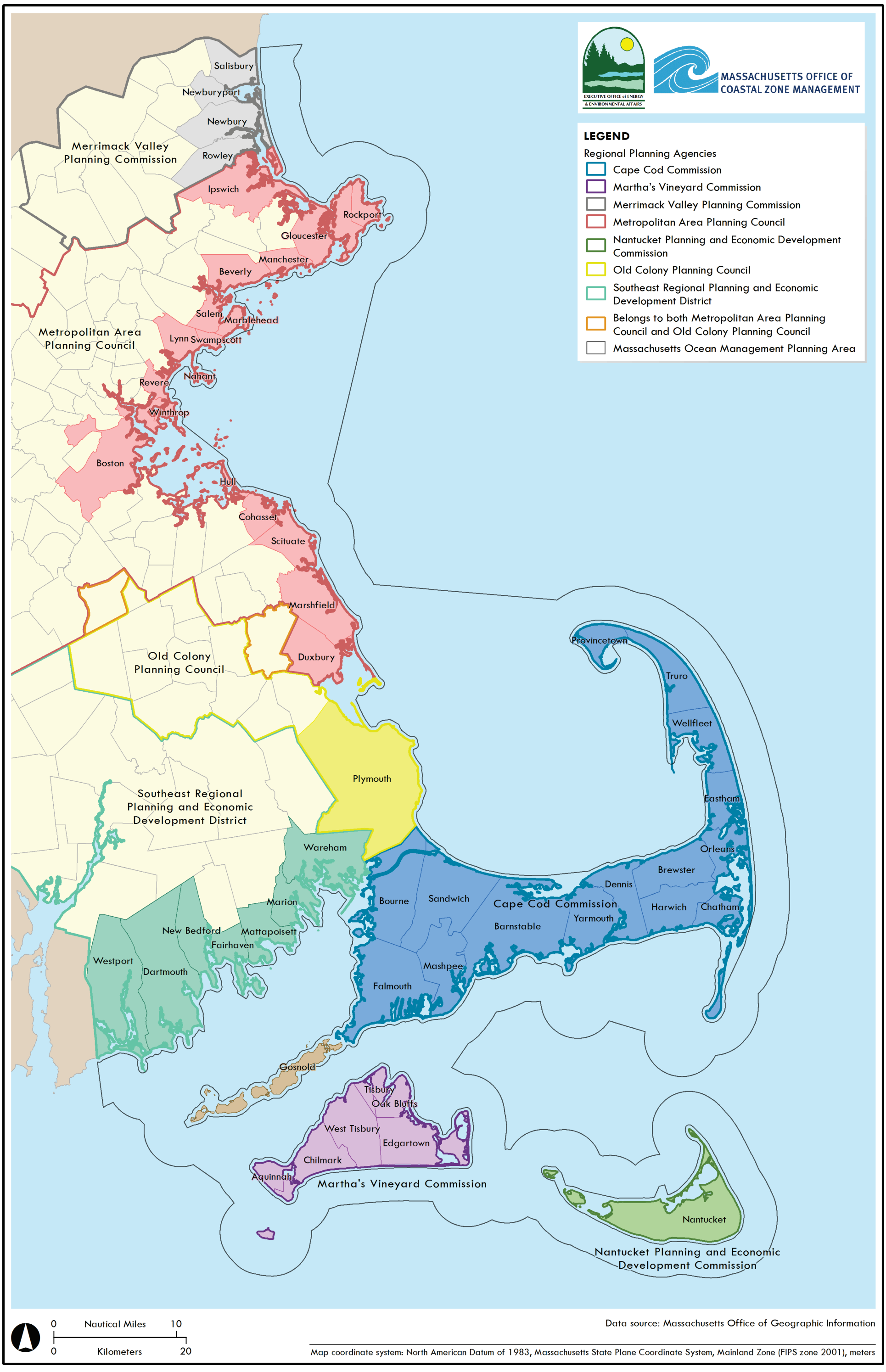

Figure 24. Regional planning agencies and municipalities adjacent to the planning area

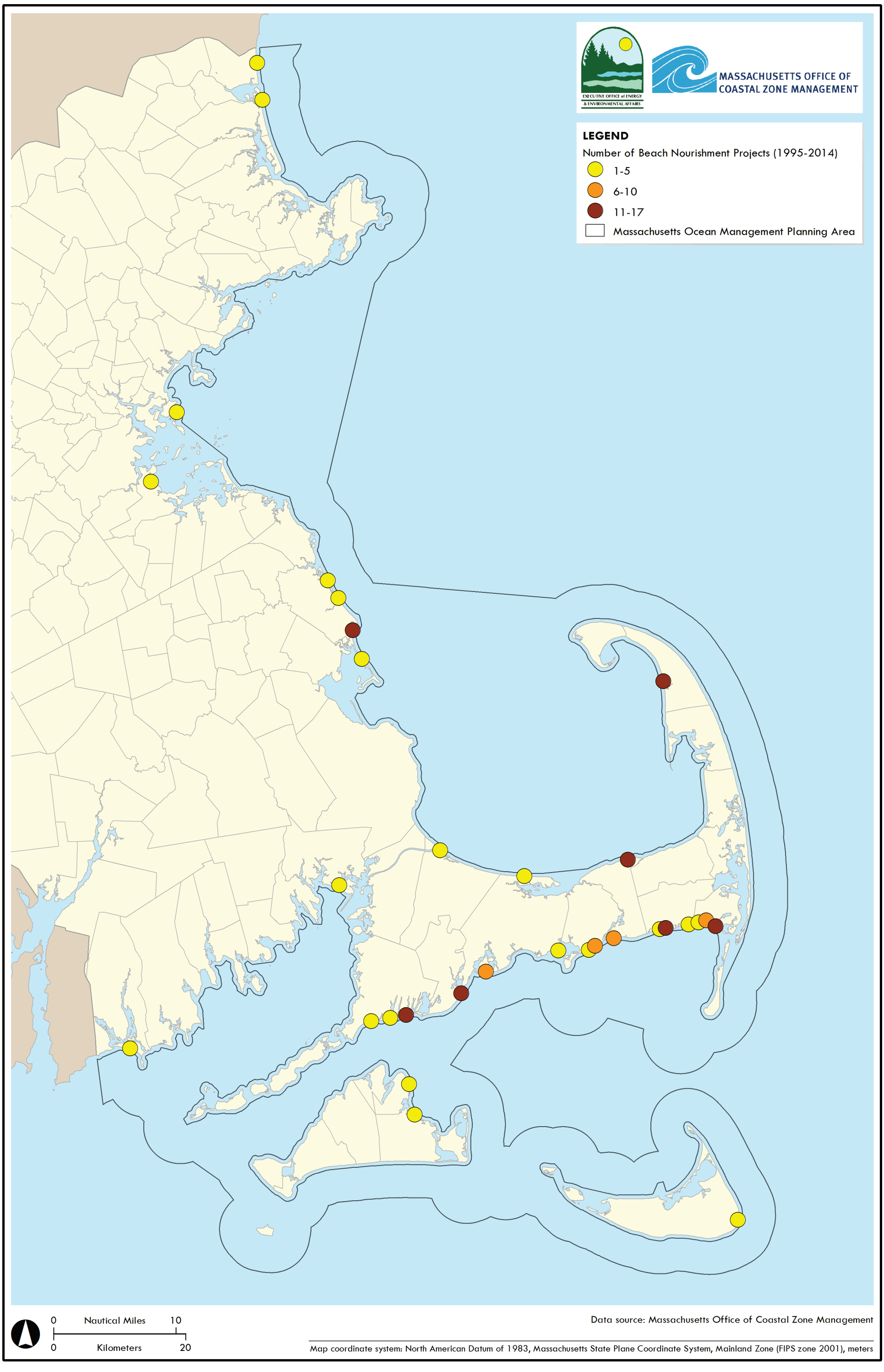

Figure 25. Beach nourishment projects in Massachusetts from 1995-2014

Figure 26. Communities with highest short-term erosion rates

Figure 27. Public beaches with highest short-term erosion rates

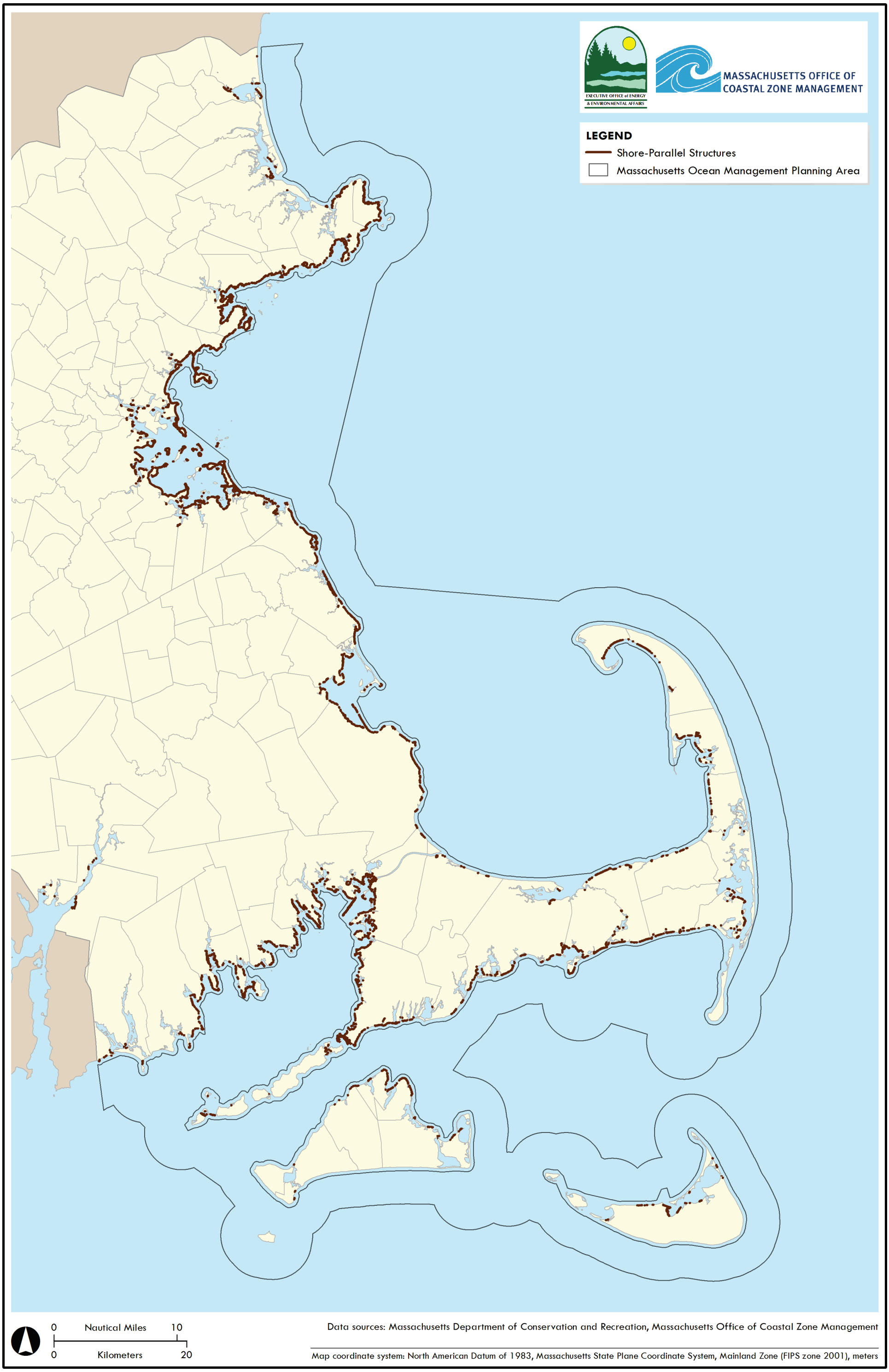

Figure 28. Extent of shoreline with shore-parallel structures

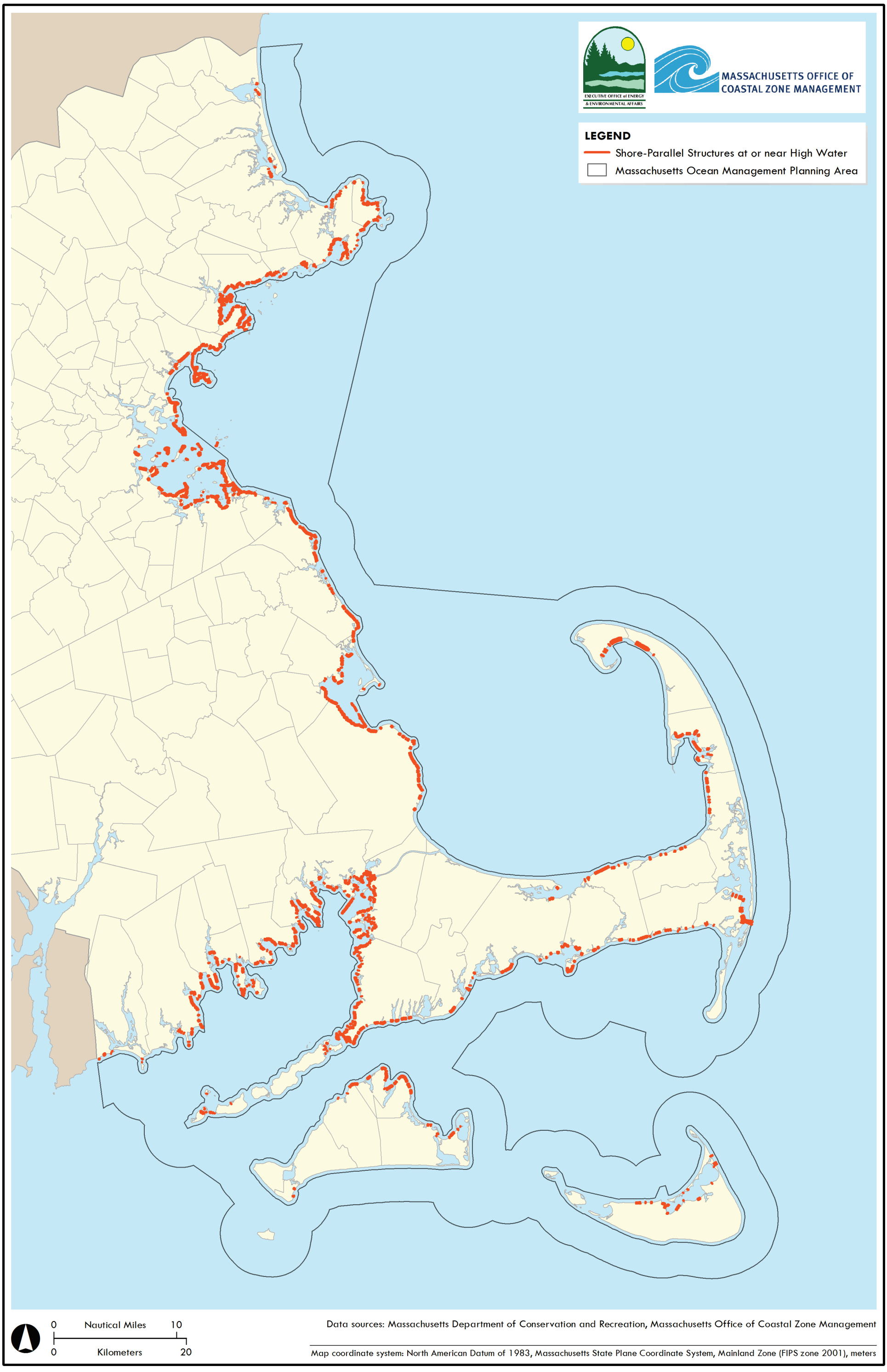

Figure 29. Areas where shore-parallel structures are at or near high water

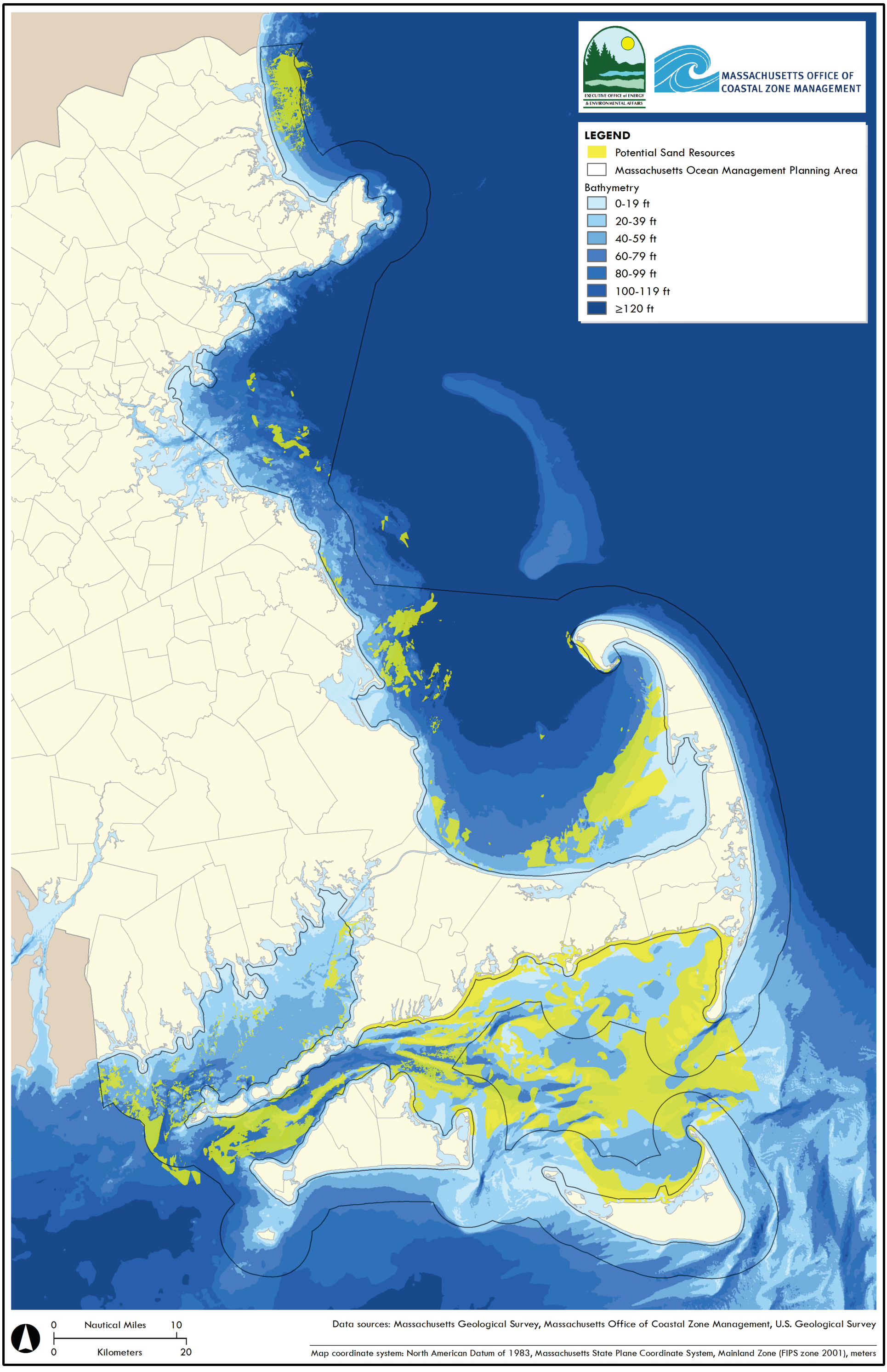

Figure 30. Potential sand resources

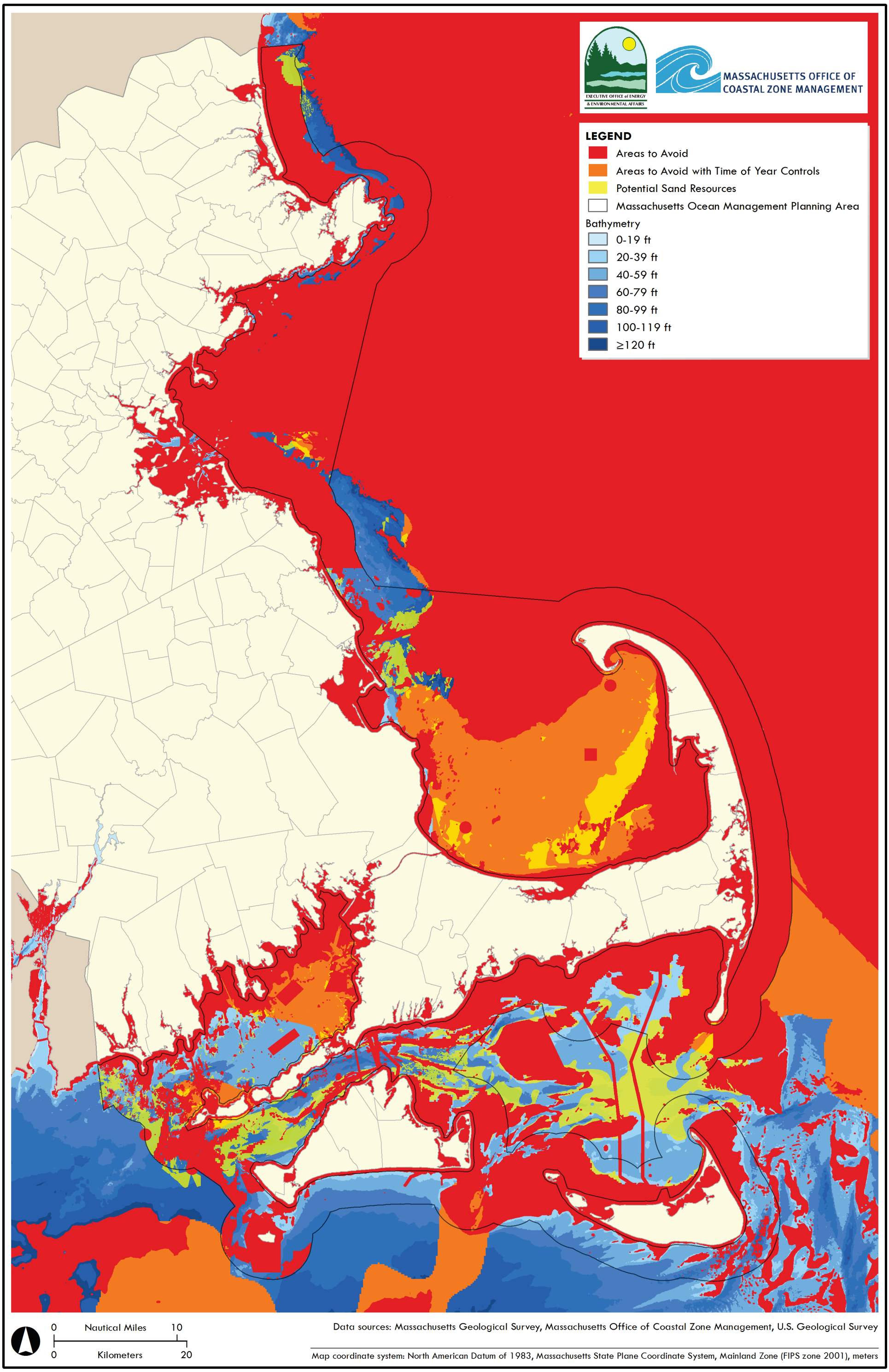

Figure 31. Areas to avoid for offshore sand projects for beach nourishment

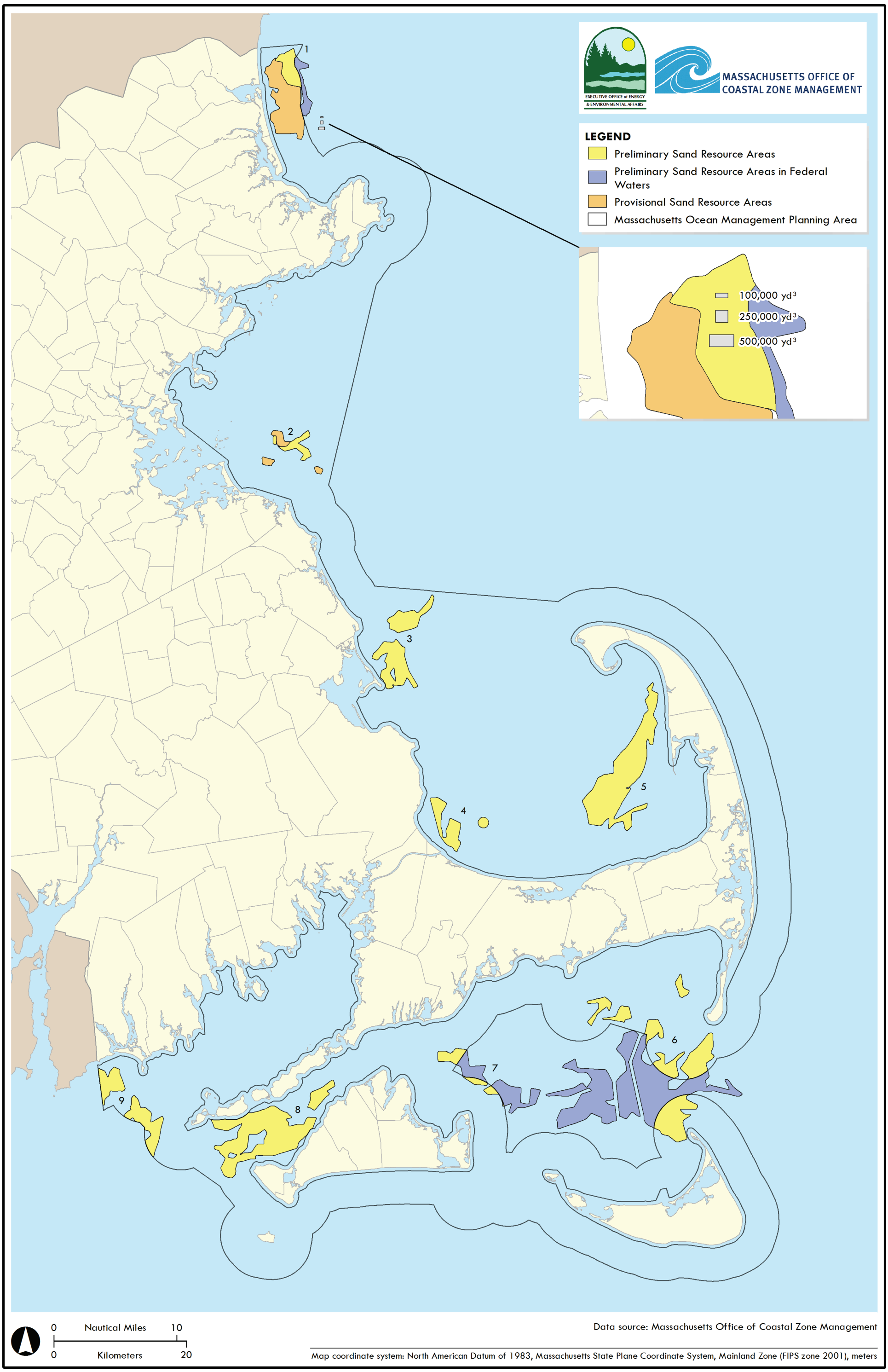

Figure 32. Preliminary and provisional sand resource areas for offshore sand projects for beach nourishment

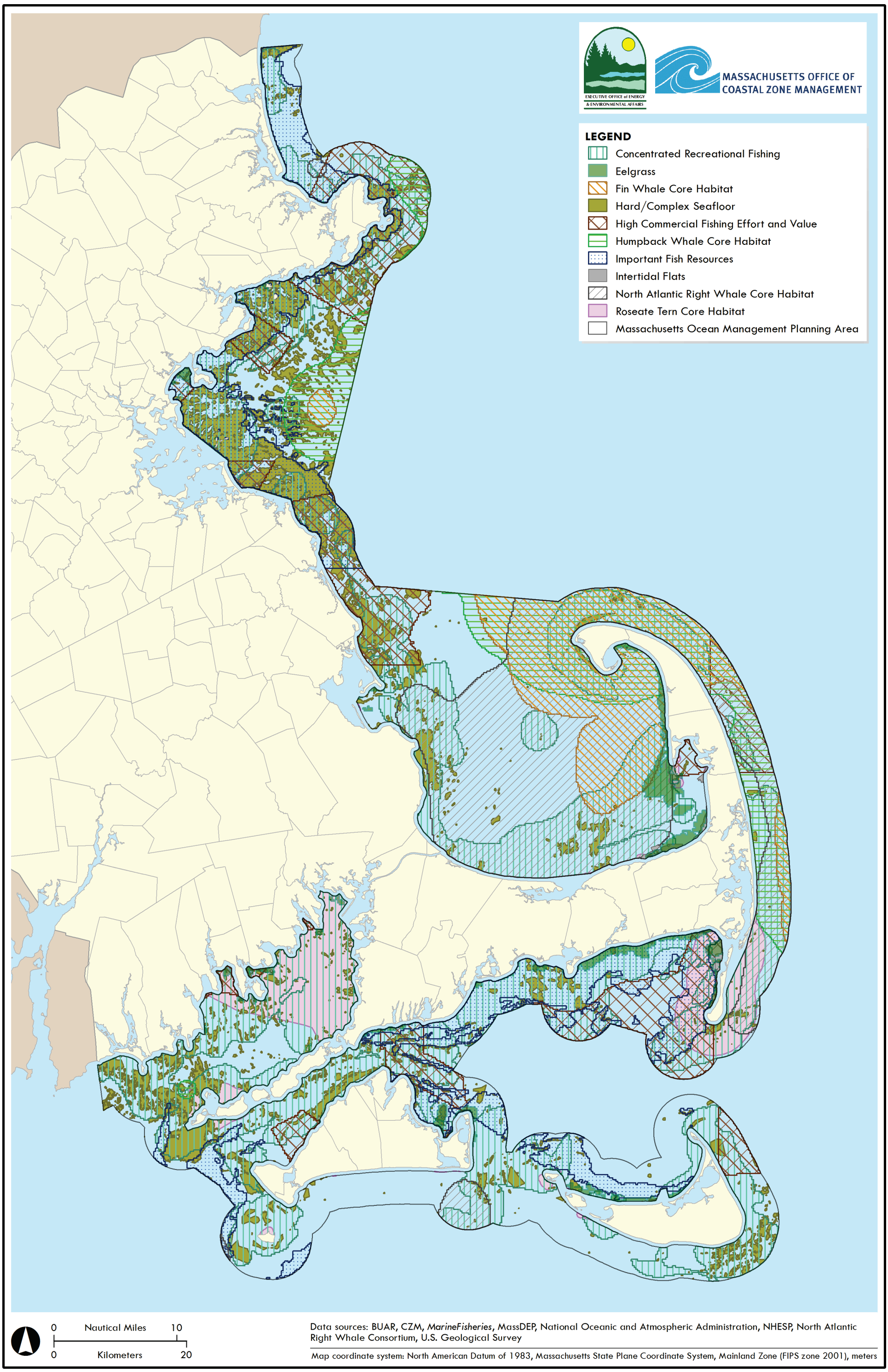

Figure 33. Special, sensitive, or unique resources and concentrations of water-dependent uses to be addressed for offshore sand projects for beach nourishment

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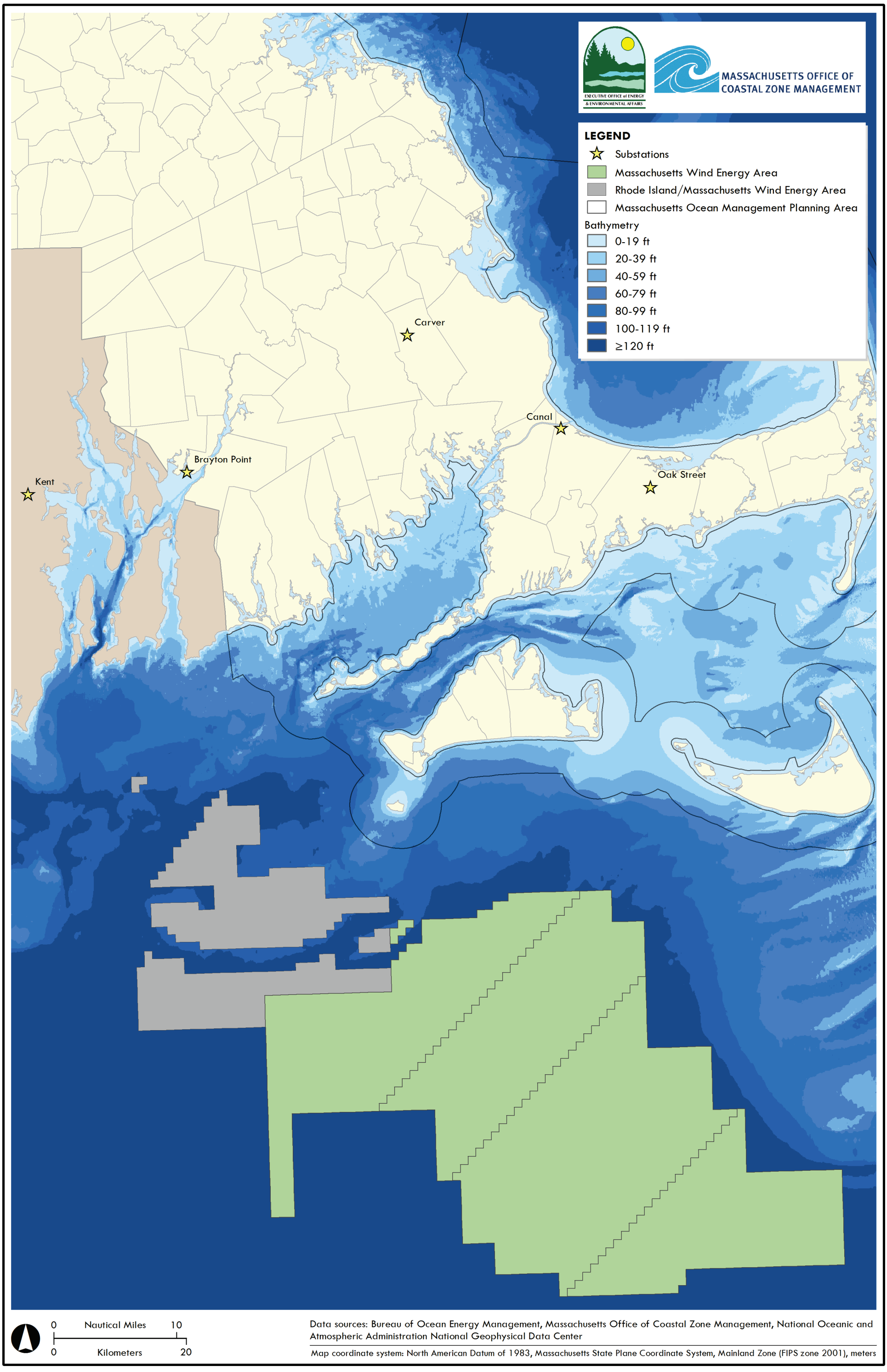

Figure 34. Federal Wind Energy Areas and priority substations

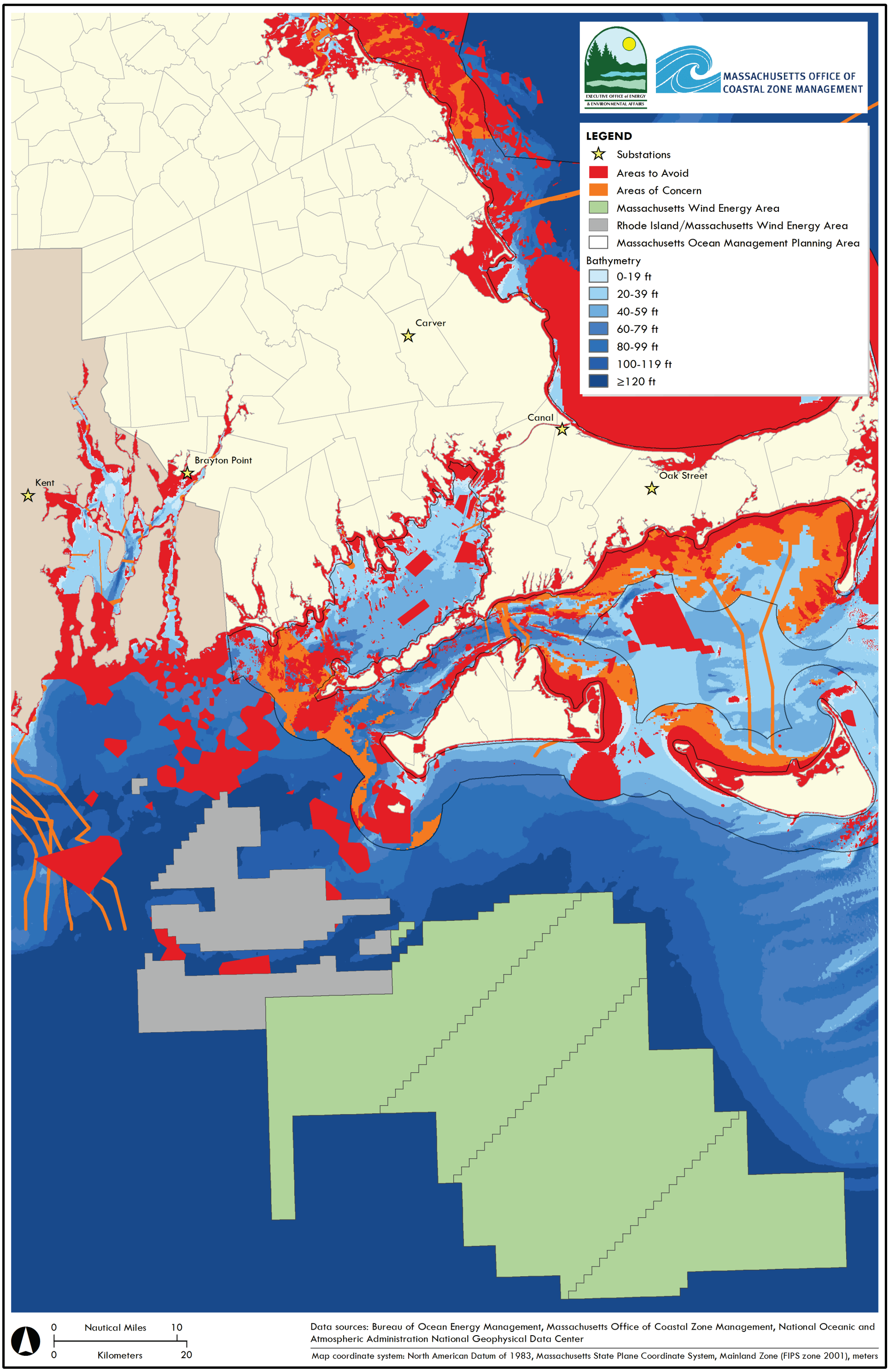

Figure 35. Areas to avoid and areas of concern for siting of potential offshore wind transmission cable corridors

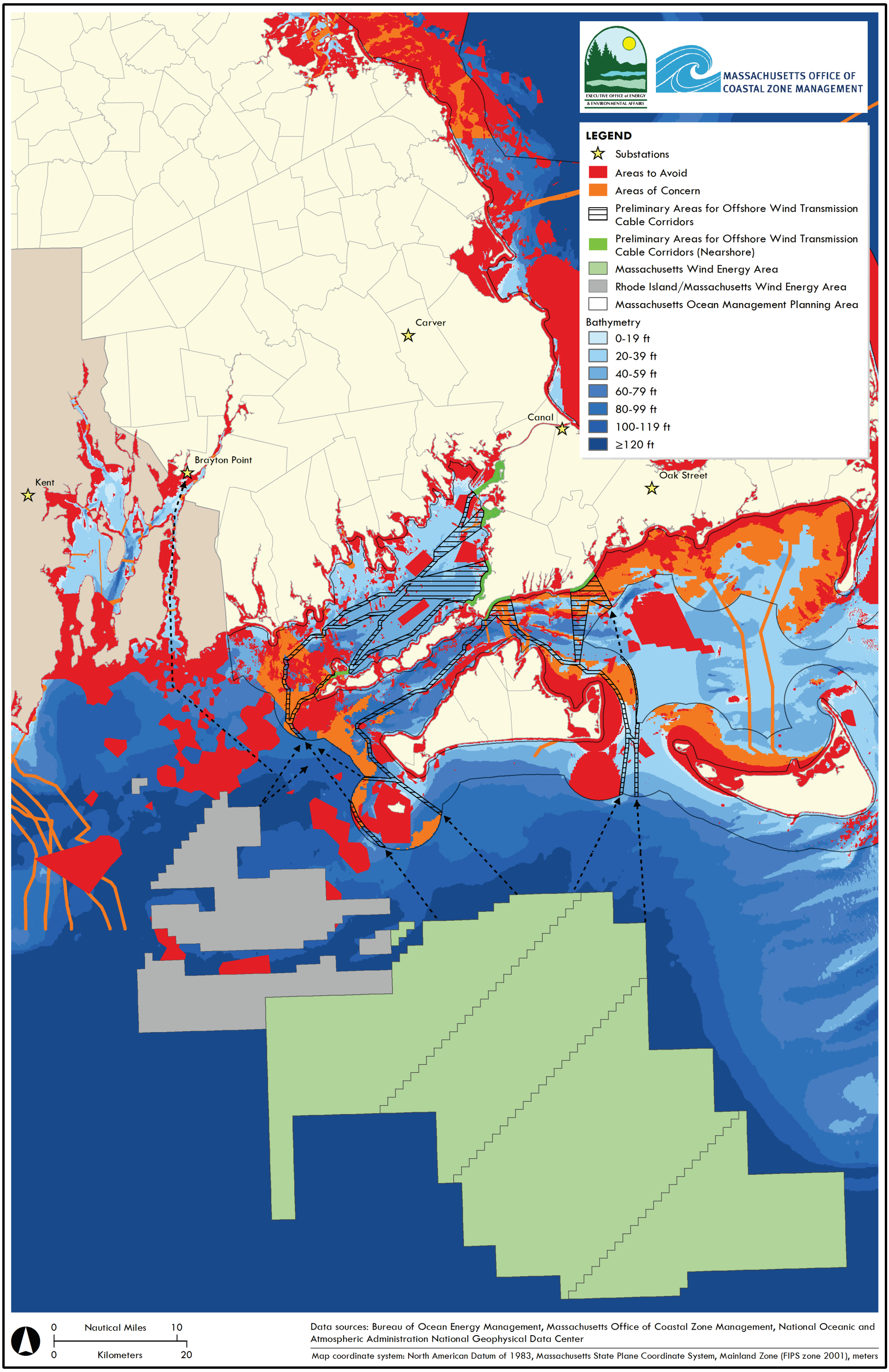

Figure 36. Areas to avoid, areas of concern, and preliminary areas for offshore wind transmission cable corridors

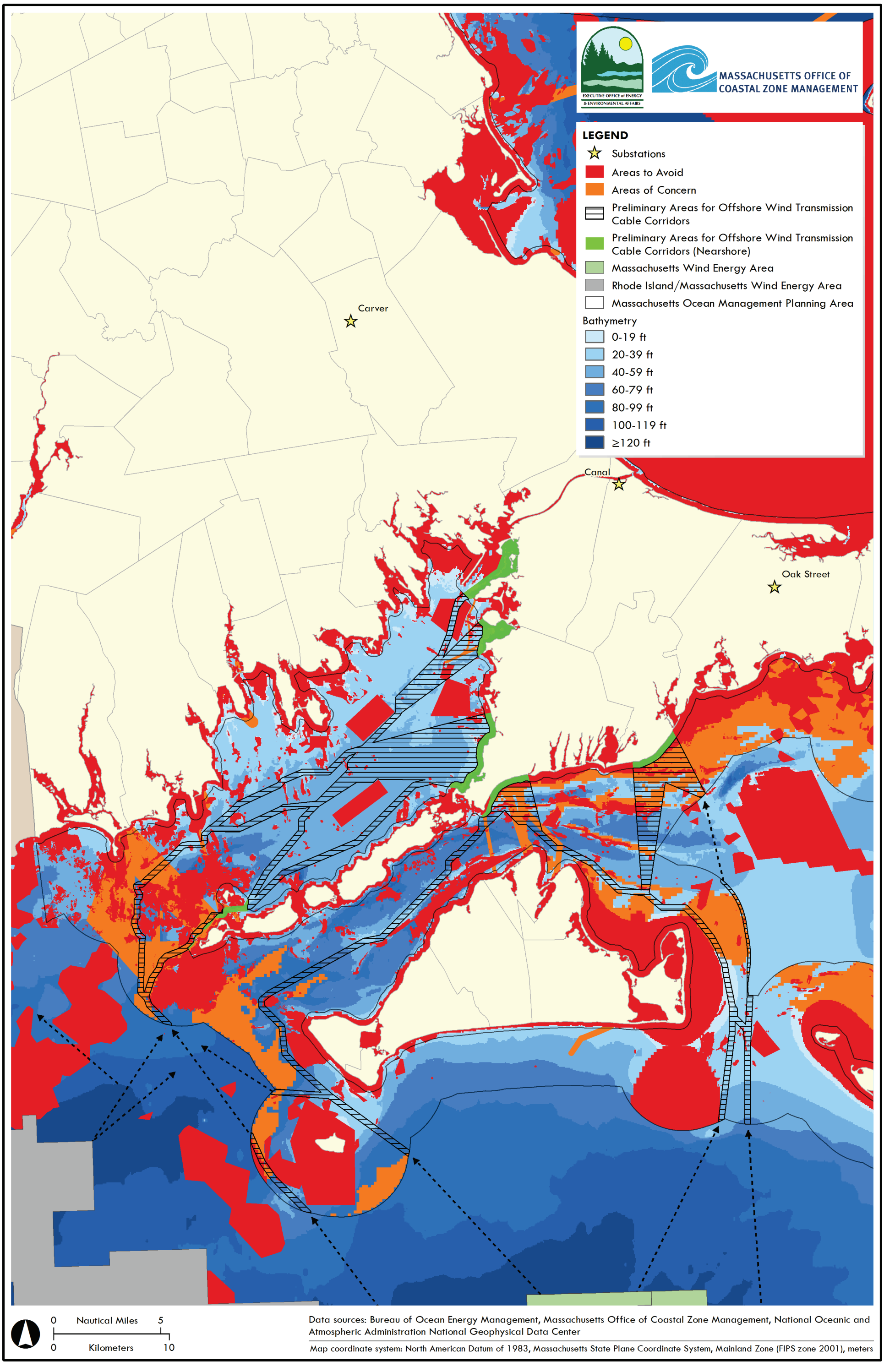

Figure 37. Close-up of areas to avoid, areas of concern, and preliminary areas for offshore wind transmission cable corridors

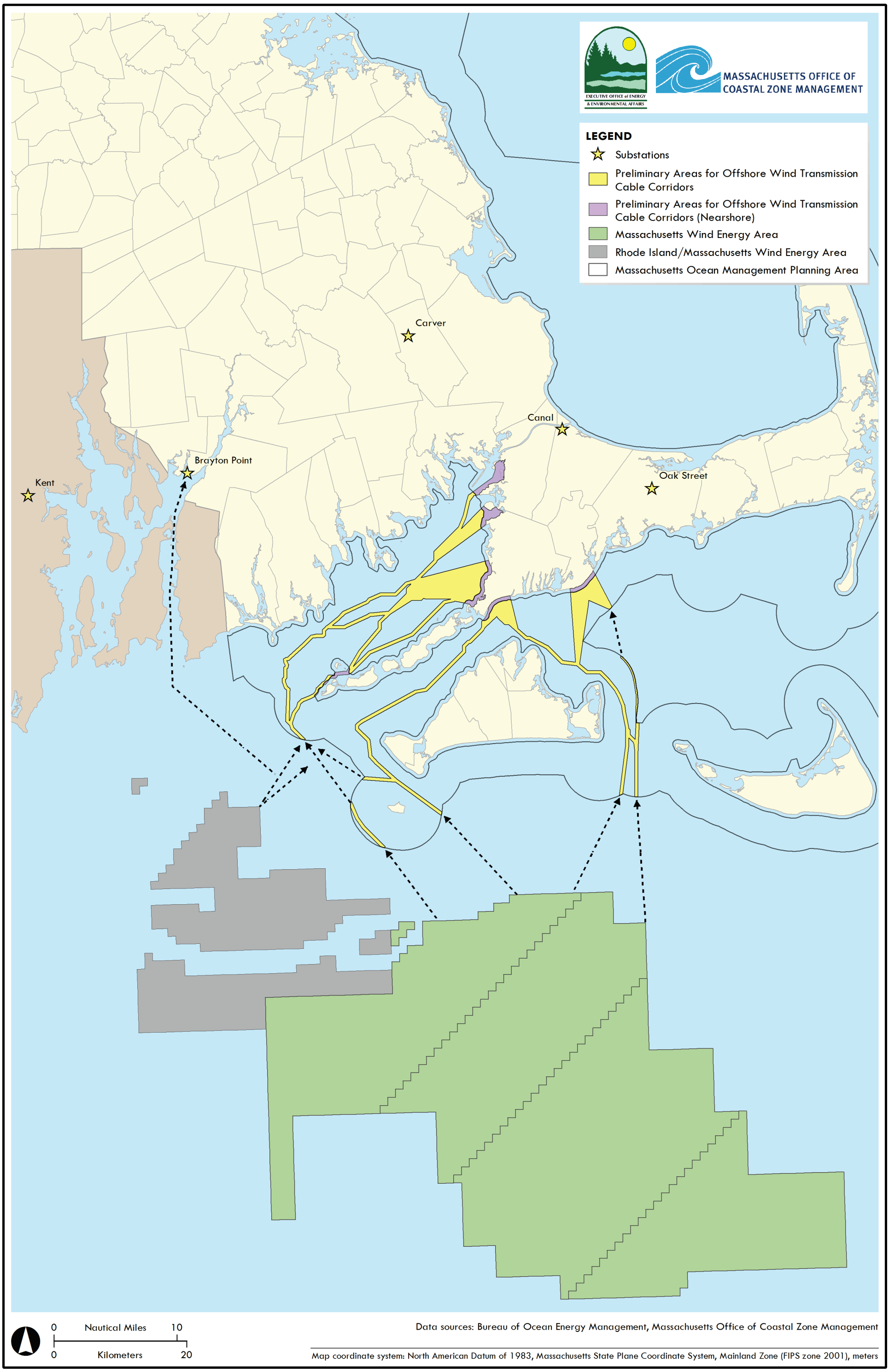

Figure 38. Preliminary areas for offshore wind transmission cable corridors

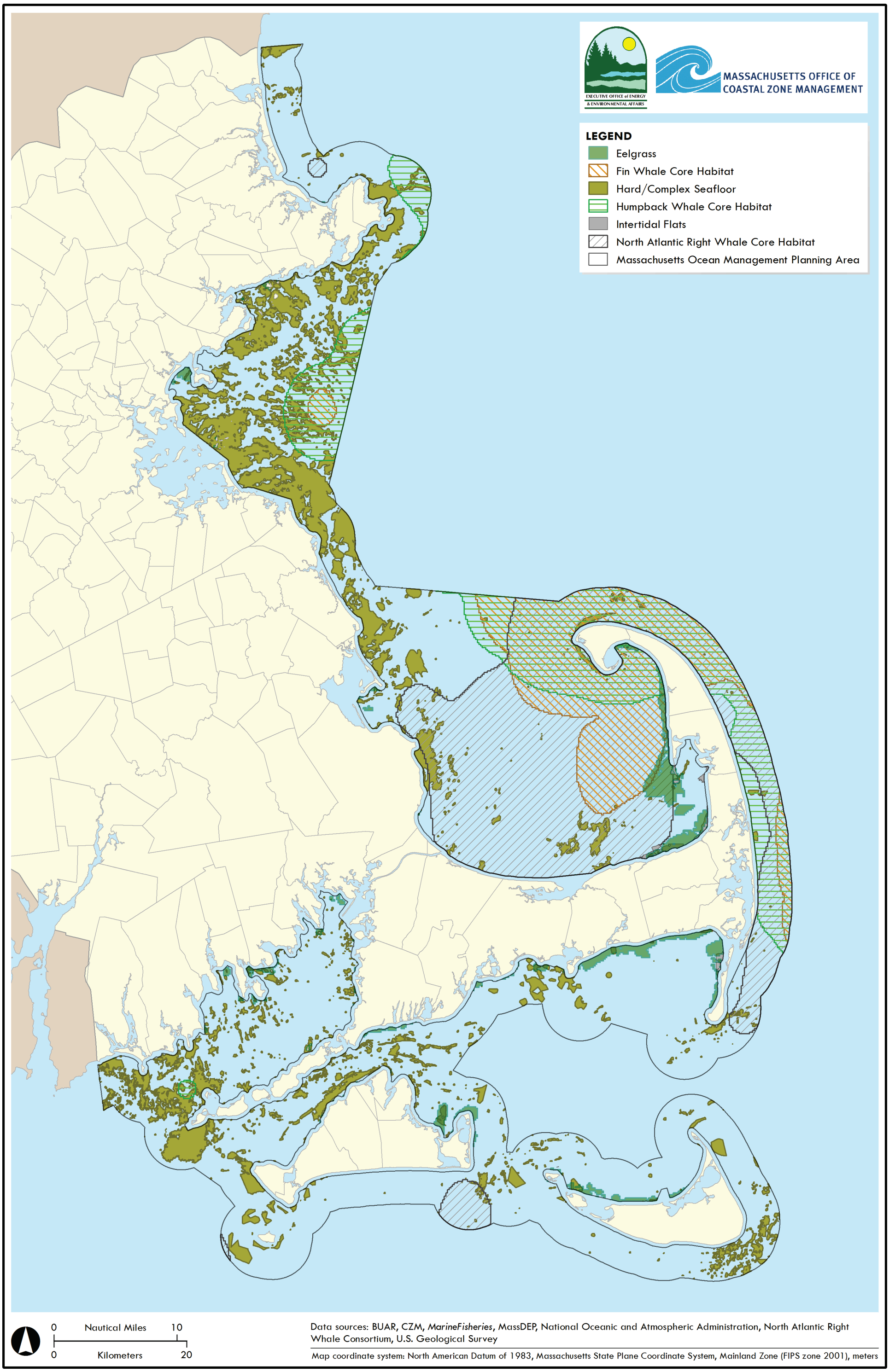

Figure 39. Special, sensitive, or unique resources and concentrations of water-dependent uses to be addressed for cables

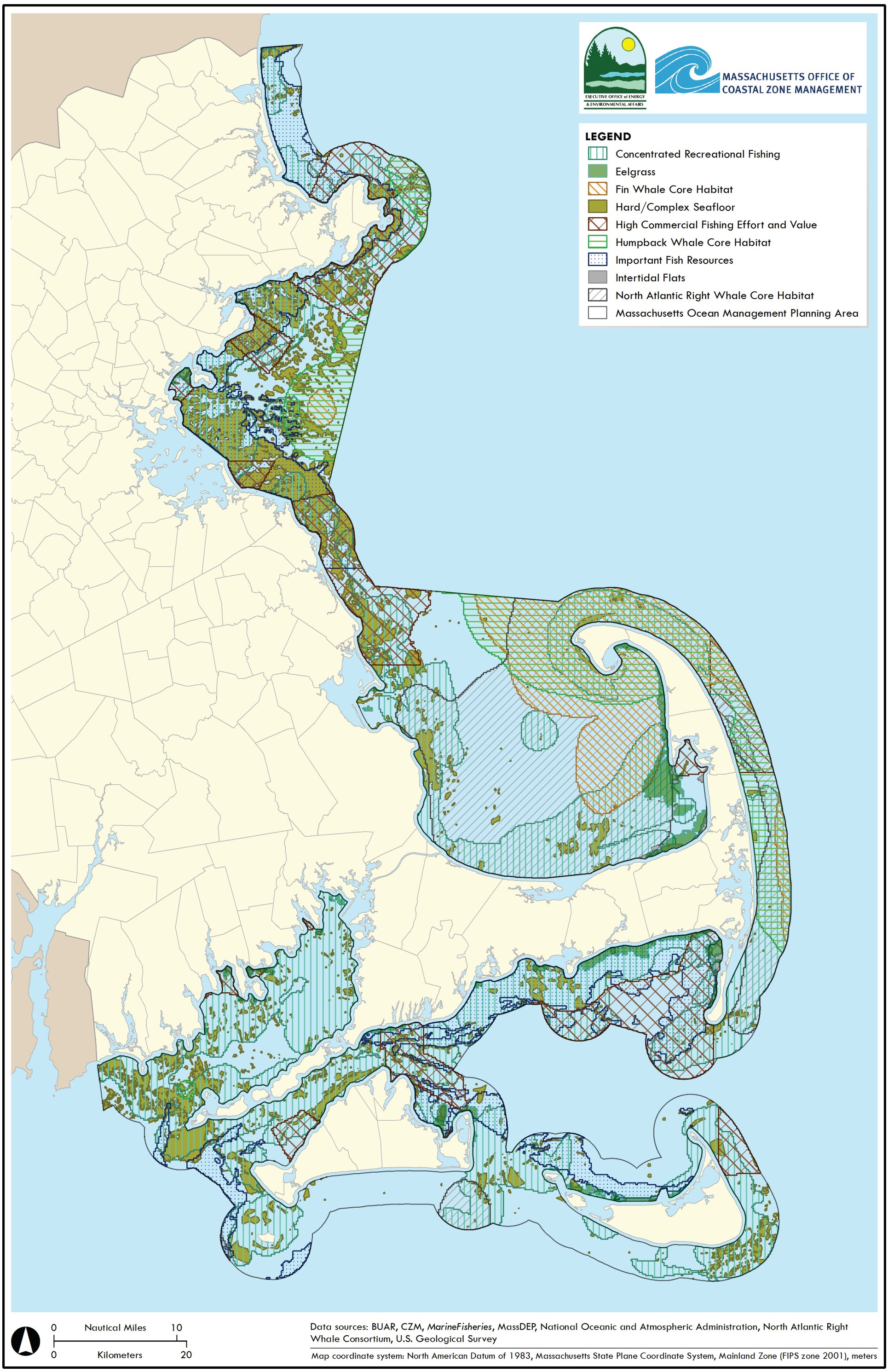

Figure 40. Special, sensitive, or unique resources and concentrations of water-dependent uses to be addressed for pipelines