VINEYARD MID-ATLANTIC

CONSTRUCTION AND OPERATIONS PLAN

VOLUME II APPENDIX

JANUARY 2025

PREPARED BY:

Epsilon ASSOCIATES INC.

SUBMITTED BY:

VINEYARD MID-ATLANTIC LLC

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE

PUBLIC VERSION

Vineyard Mid-Atlantic COP

Appendix II-B1 Marine Site Investigation Report Figures

Prepared by:
Geo SubSea

Prepared for:
Vineyard Mid-Atlantic LLC

January 2025

Revision	Date	Description
0	March 2024	Initial submission.
1	September 2024	Updated to remove the Jones Beach B Approach from the Project Design Envelope (PDE).
2	November 2024	Updated to remove the Long Beach Approach from the PDE.
2	January 2025	Resubmitted without revisions.

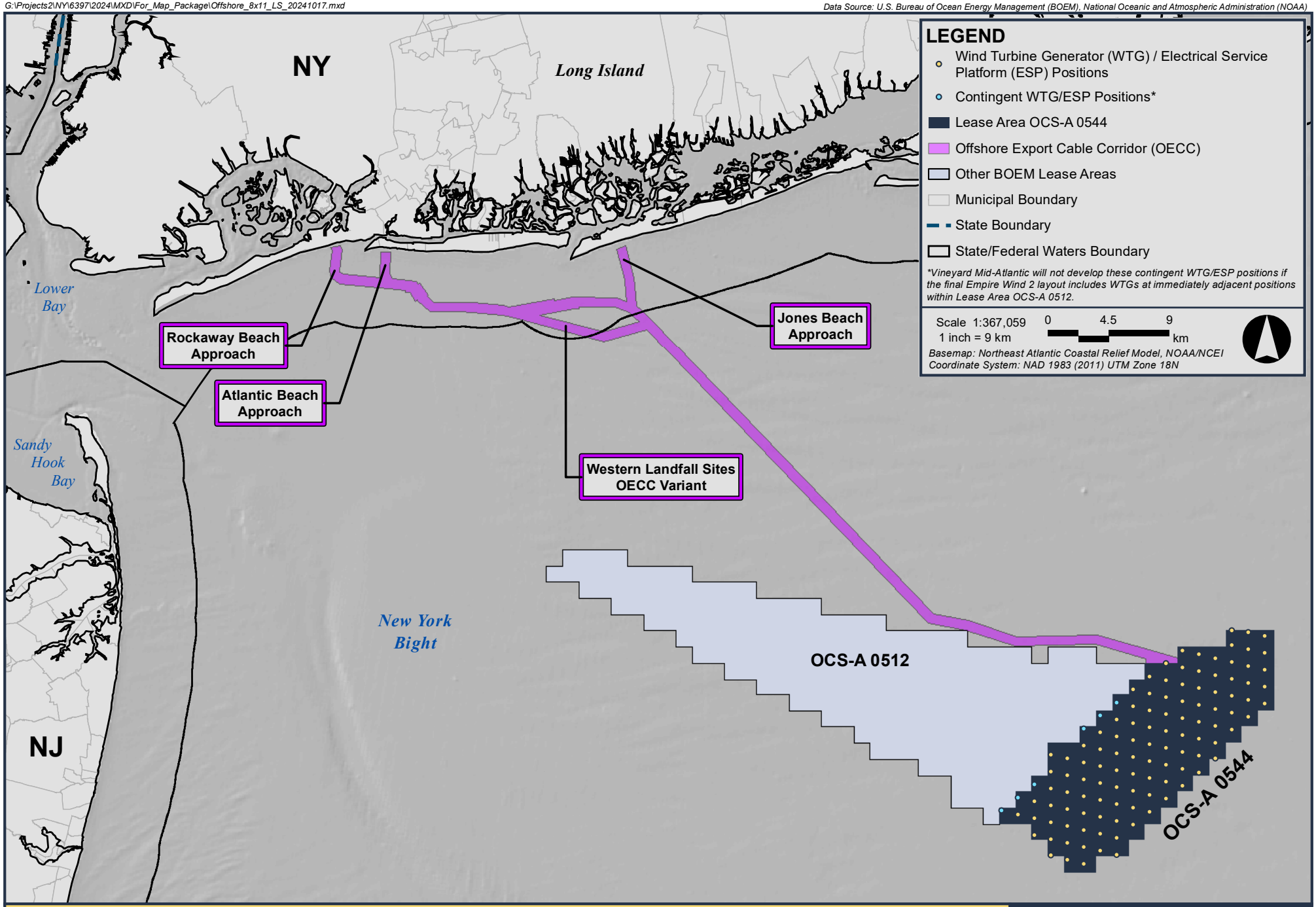

Figure 1.1-1
Vineyard Mid-Atlantic Overview

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE

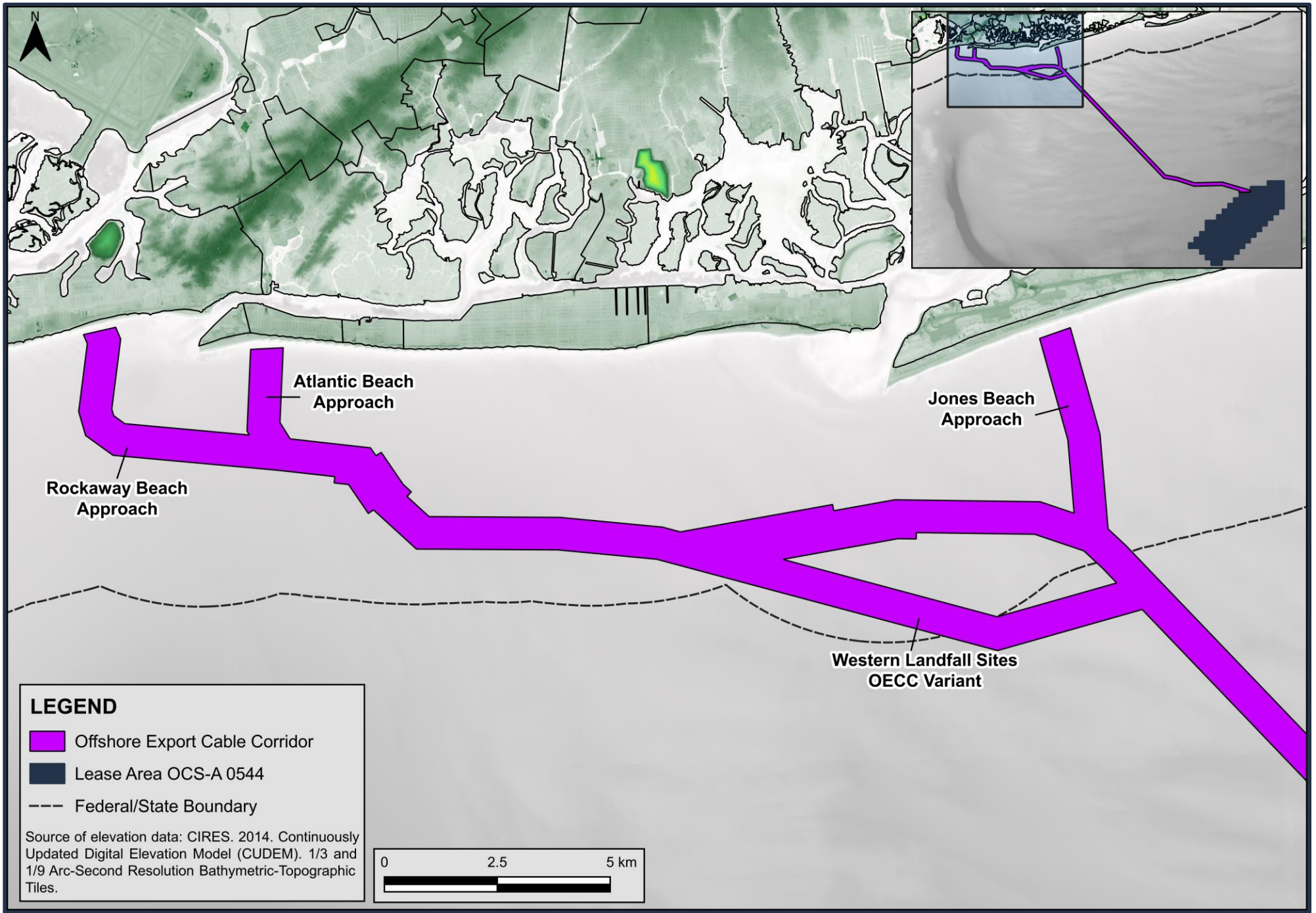

Figure 1.1-2
Offshore Export Cable Corridor Approaches

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE

Figure 1.3-4
Benthic Grab Sampling Locations, Lease Area

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

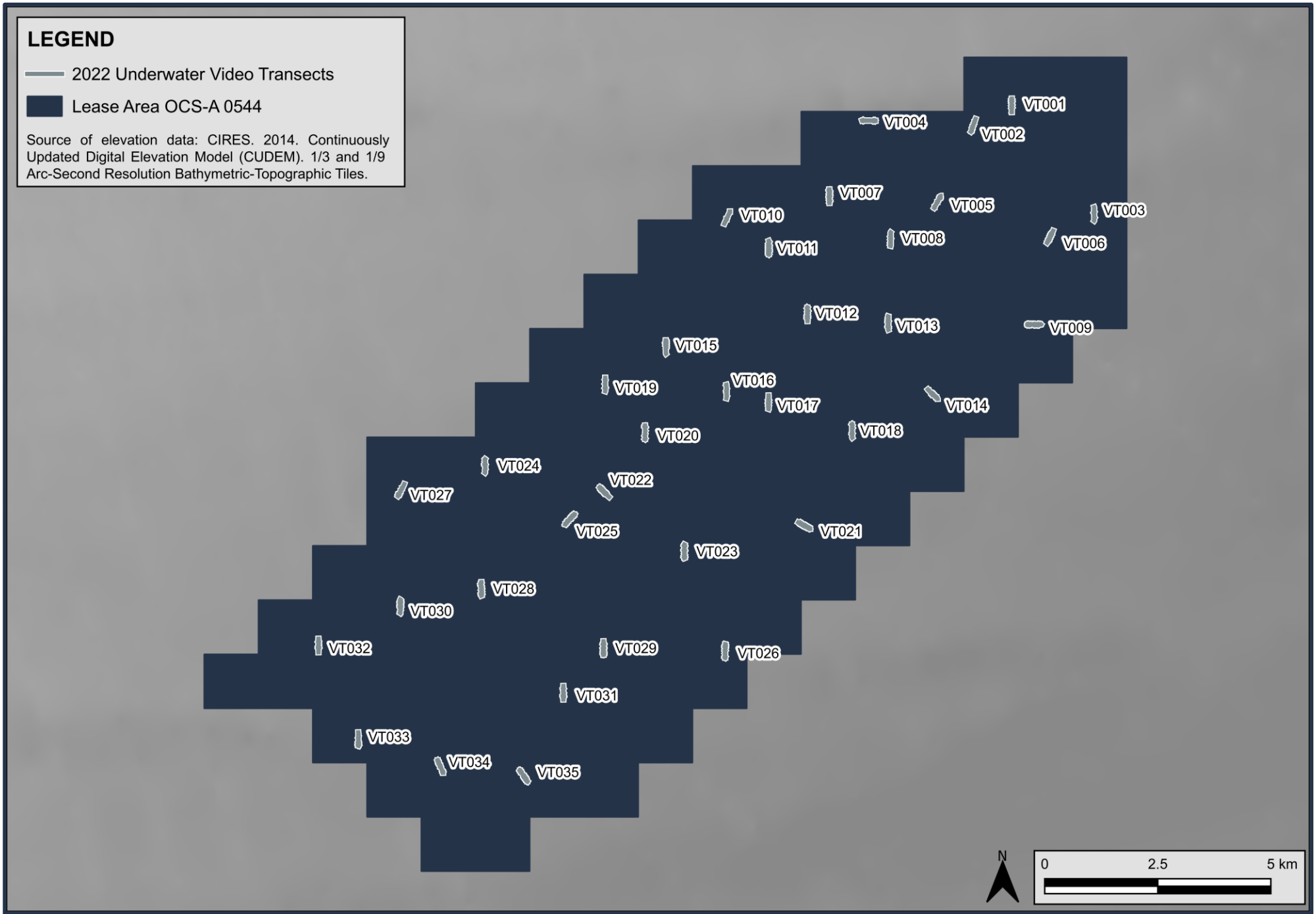

Figure 1.3-5
Underwater Video Transects, Lease Area

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

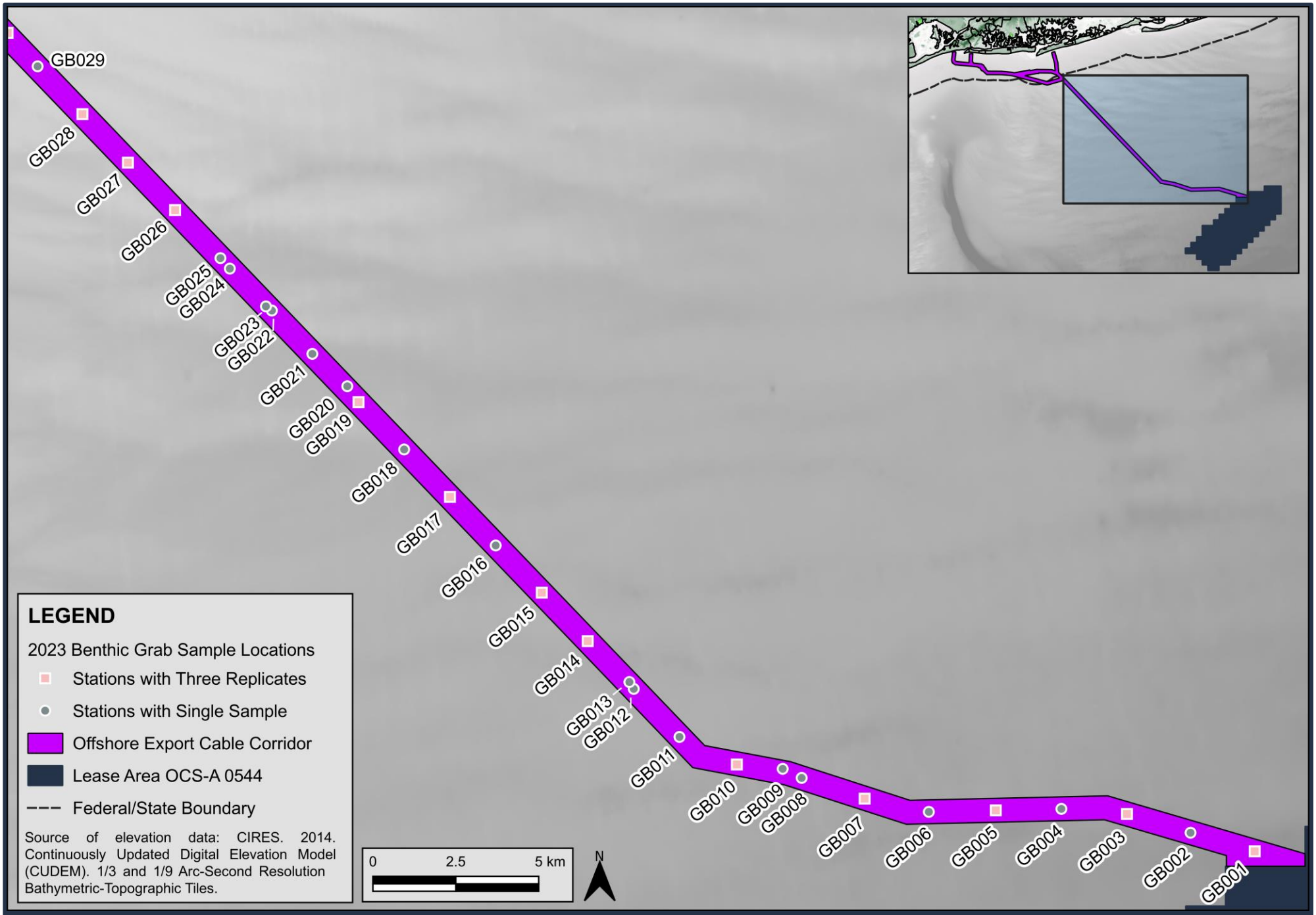

Figure 1.3-12
Benthic Grab Sampling Locations, OECC Offshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

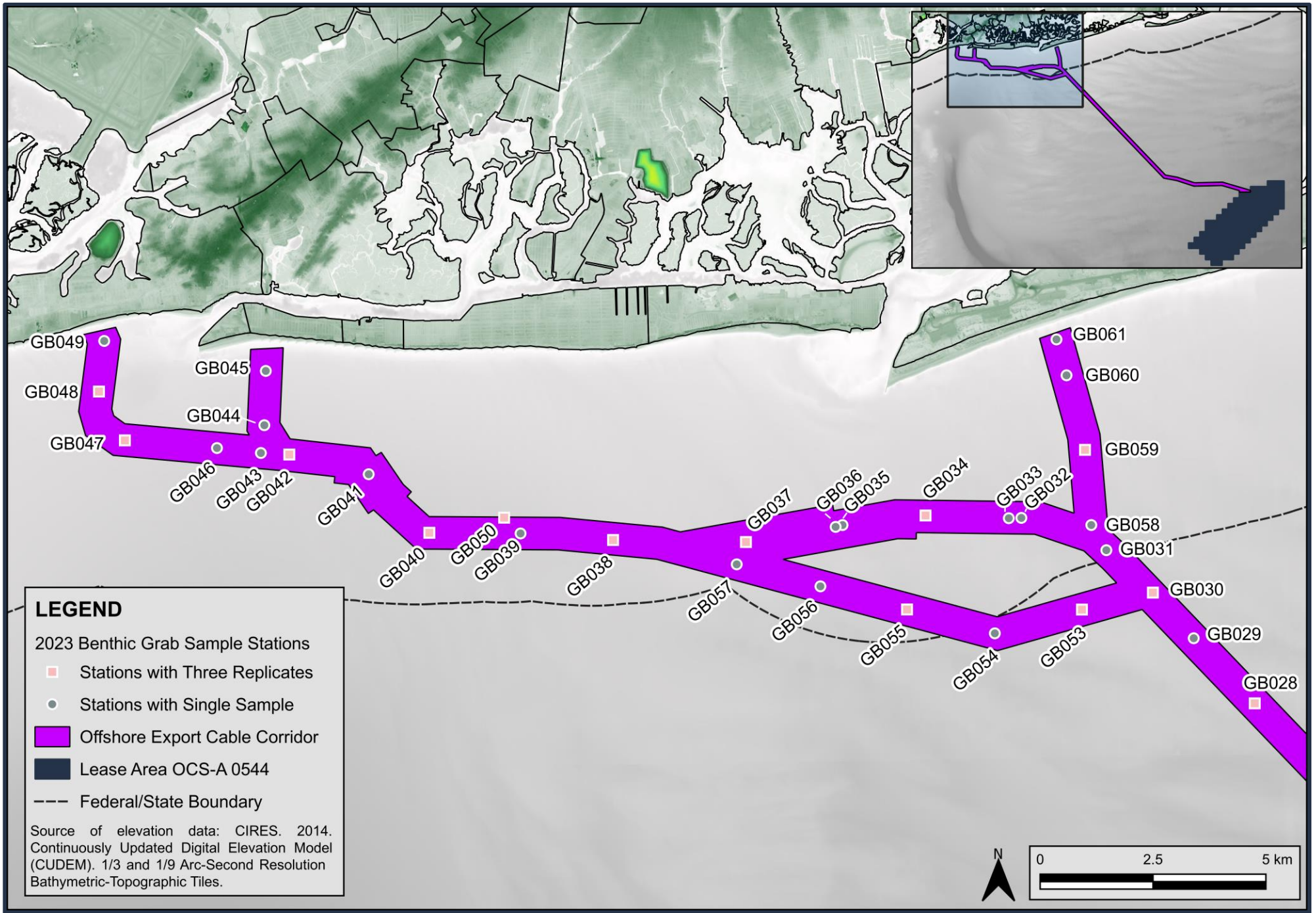

Figure 1.3-13
Benthic Grab Sampling Locations, OECC Nearshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

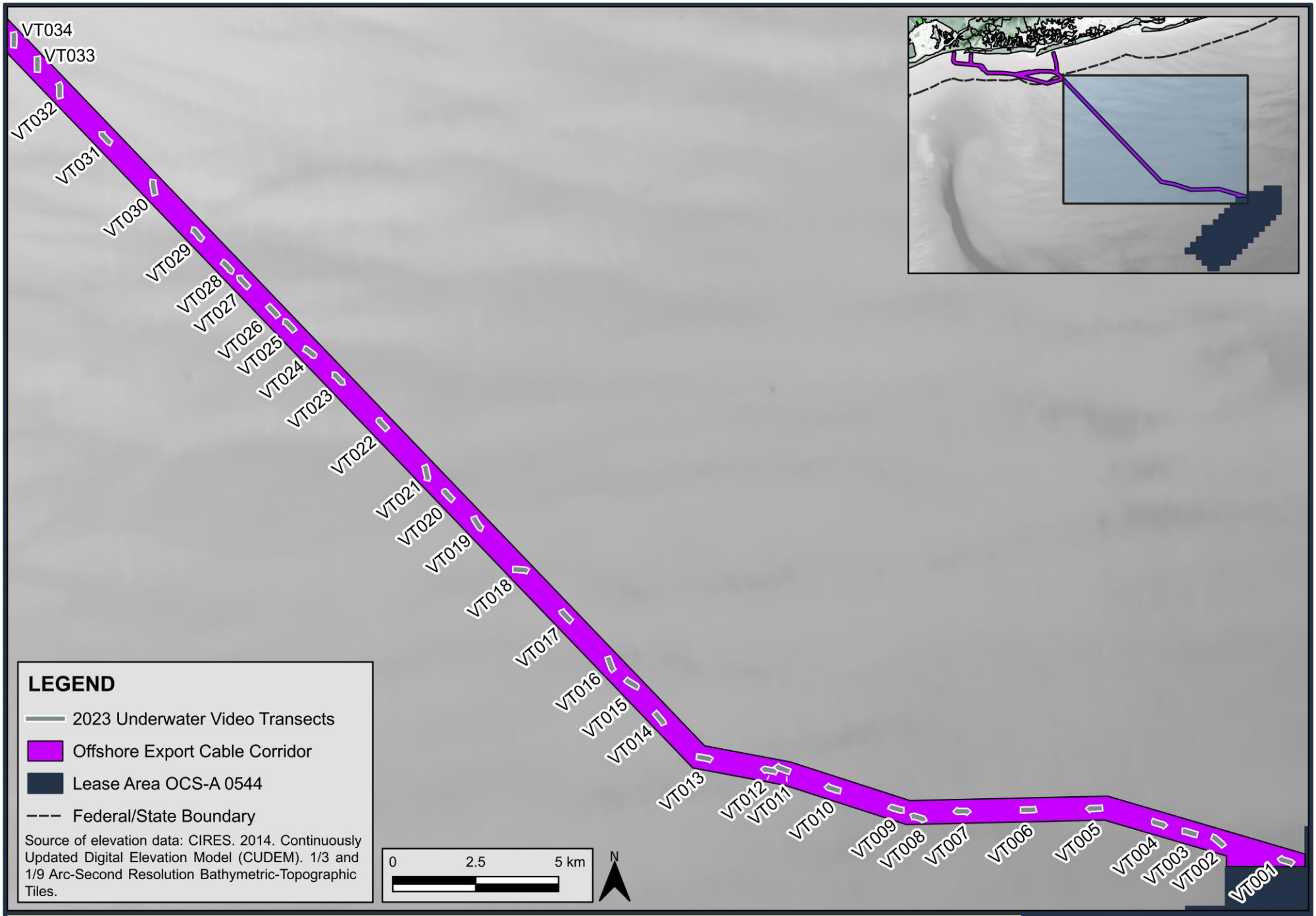

Figure 1.3-14
Underwater Video Transects, OECC Offshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

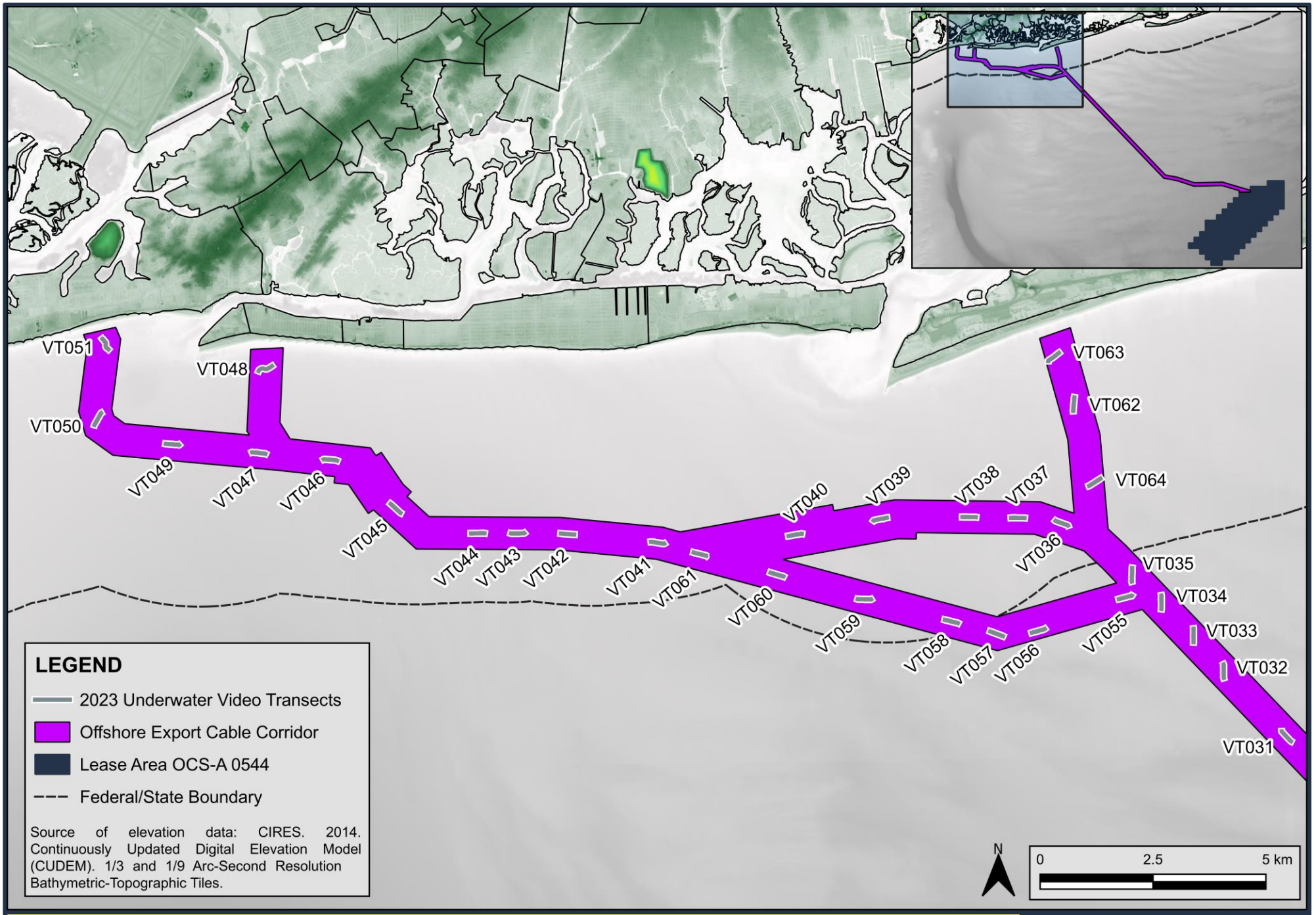

Figure 1.3-15
Underwater Video Transects, OECC Nearshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

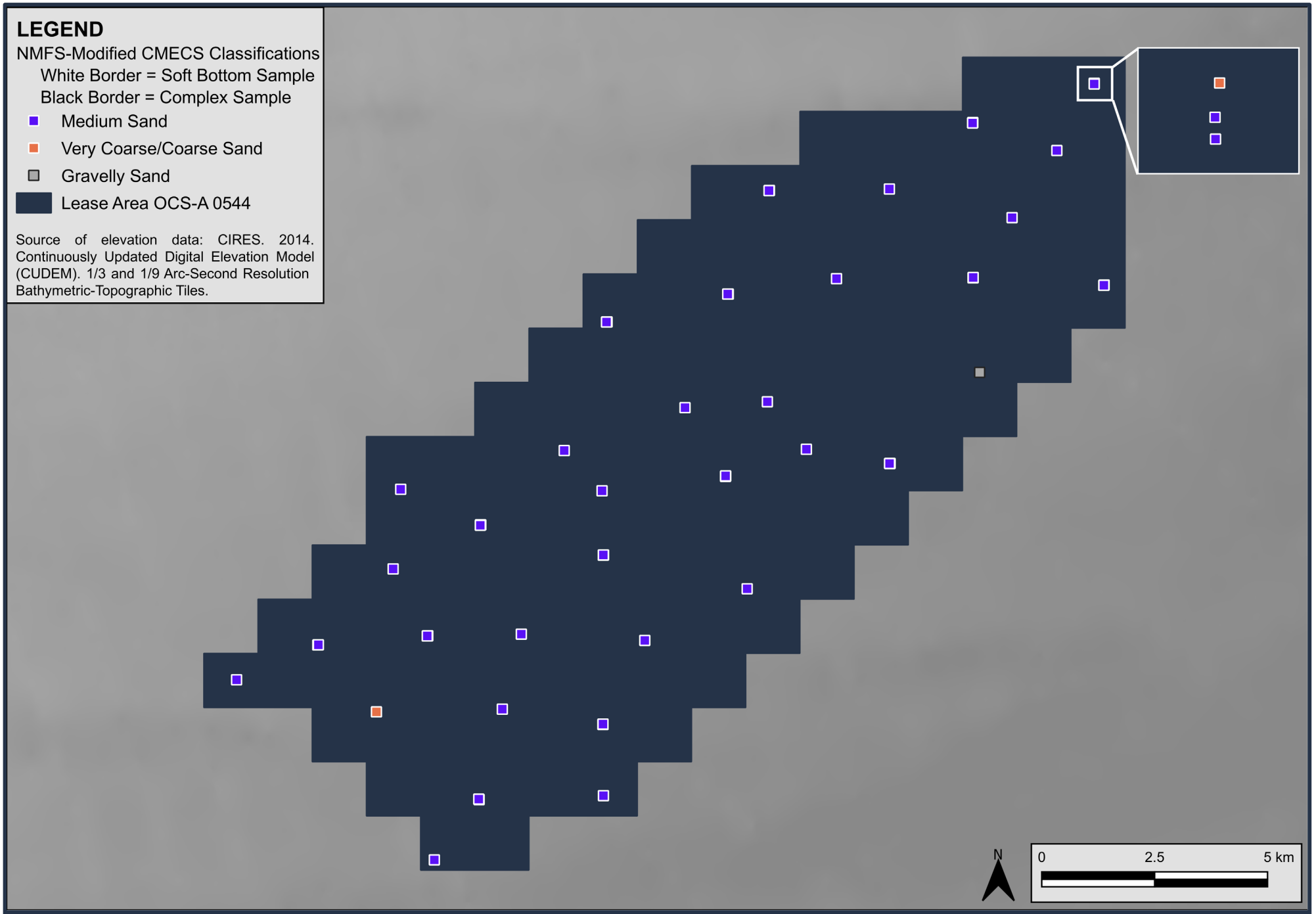

Figure 8.1-1
Lease Area Benthic Grab Sample CMECS Classifications

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

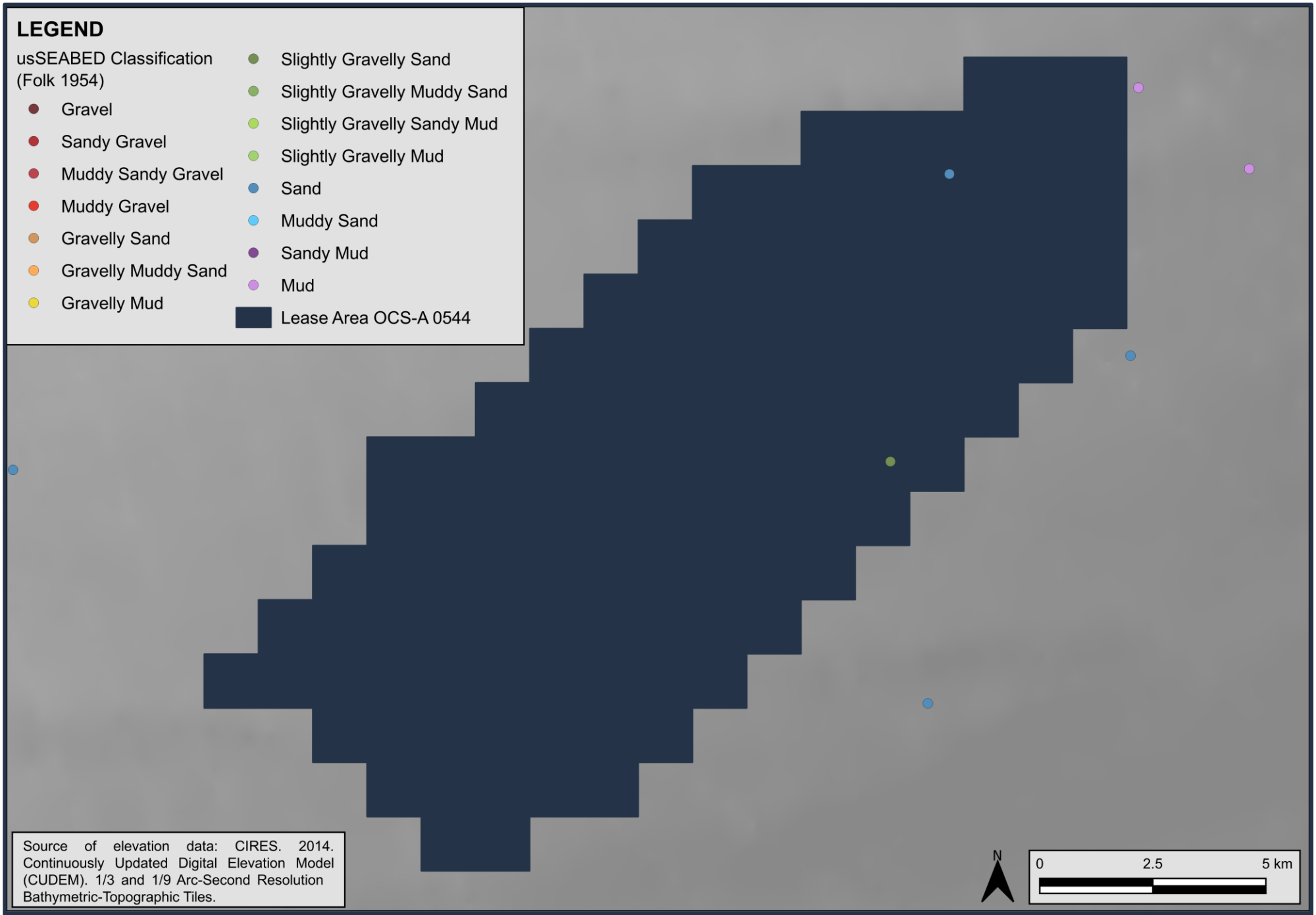

Figure 8.1-2
usSEABED Sample Classifications in the Lease Area

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

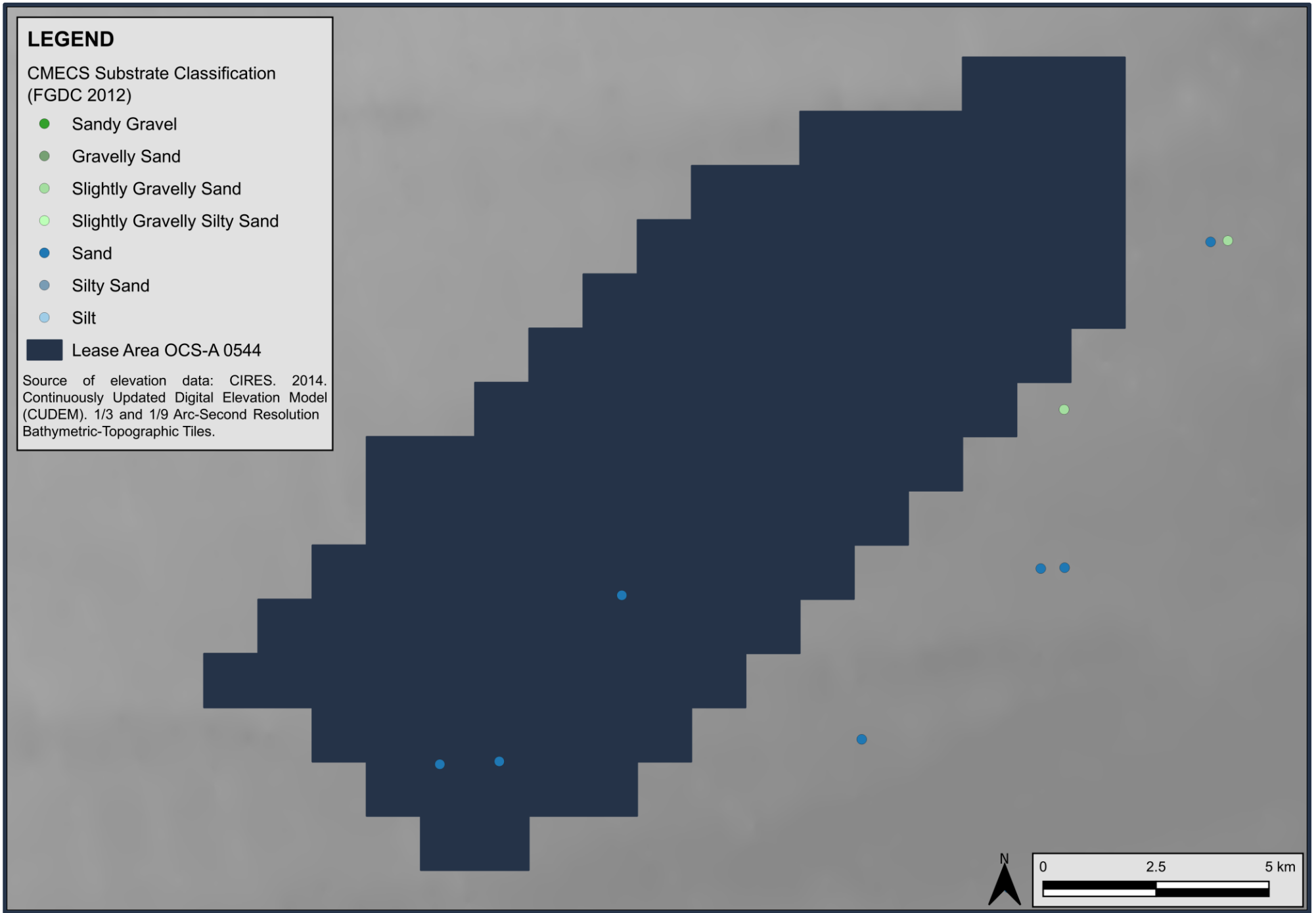

Figure 8.1-3
NYSERDA SPI/PV Image Classifications in the Lease Area

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

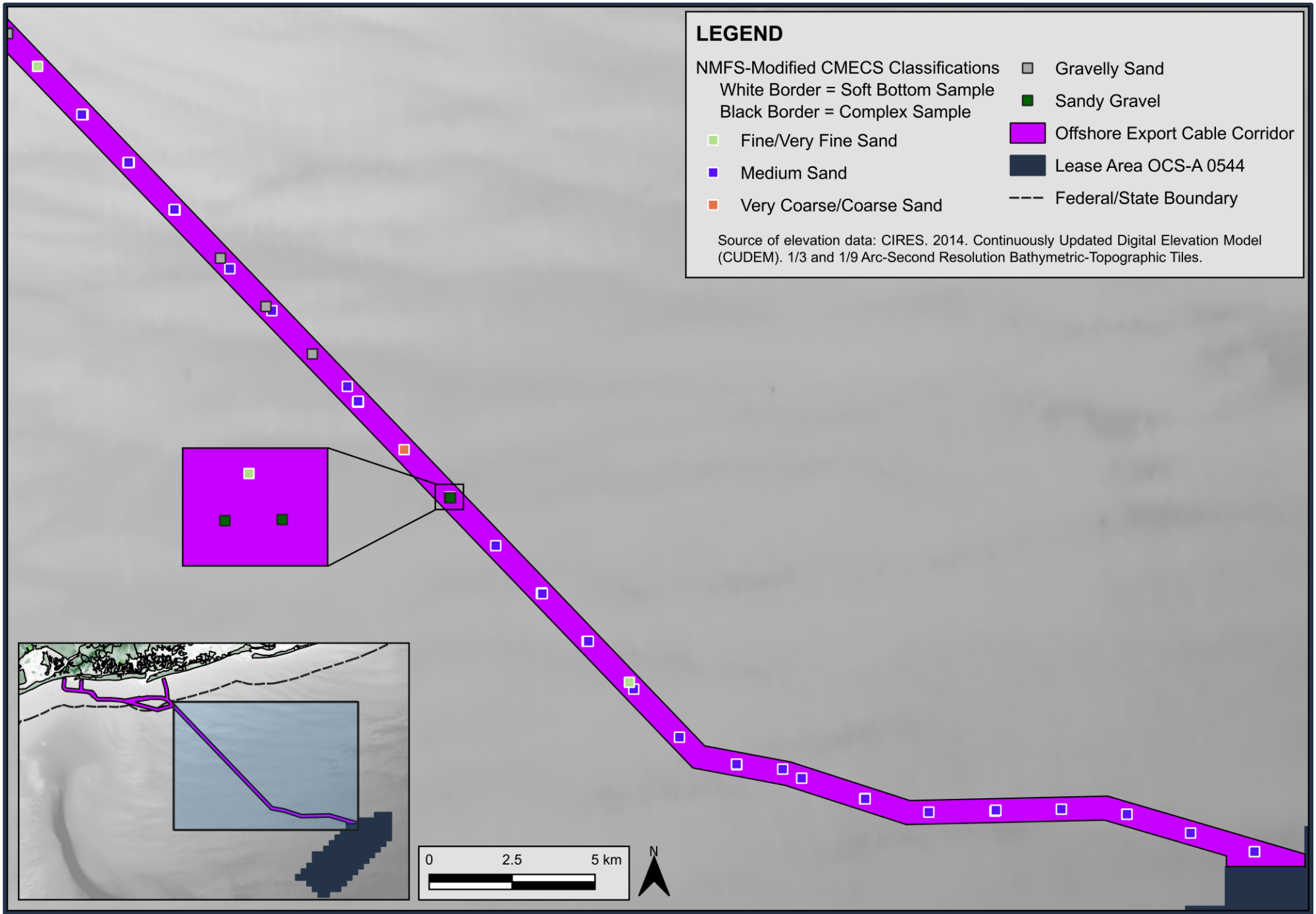

Figure 8.1-4
OECC Benthic Grab Sample CMECS Classifications, Offshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

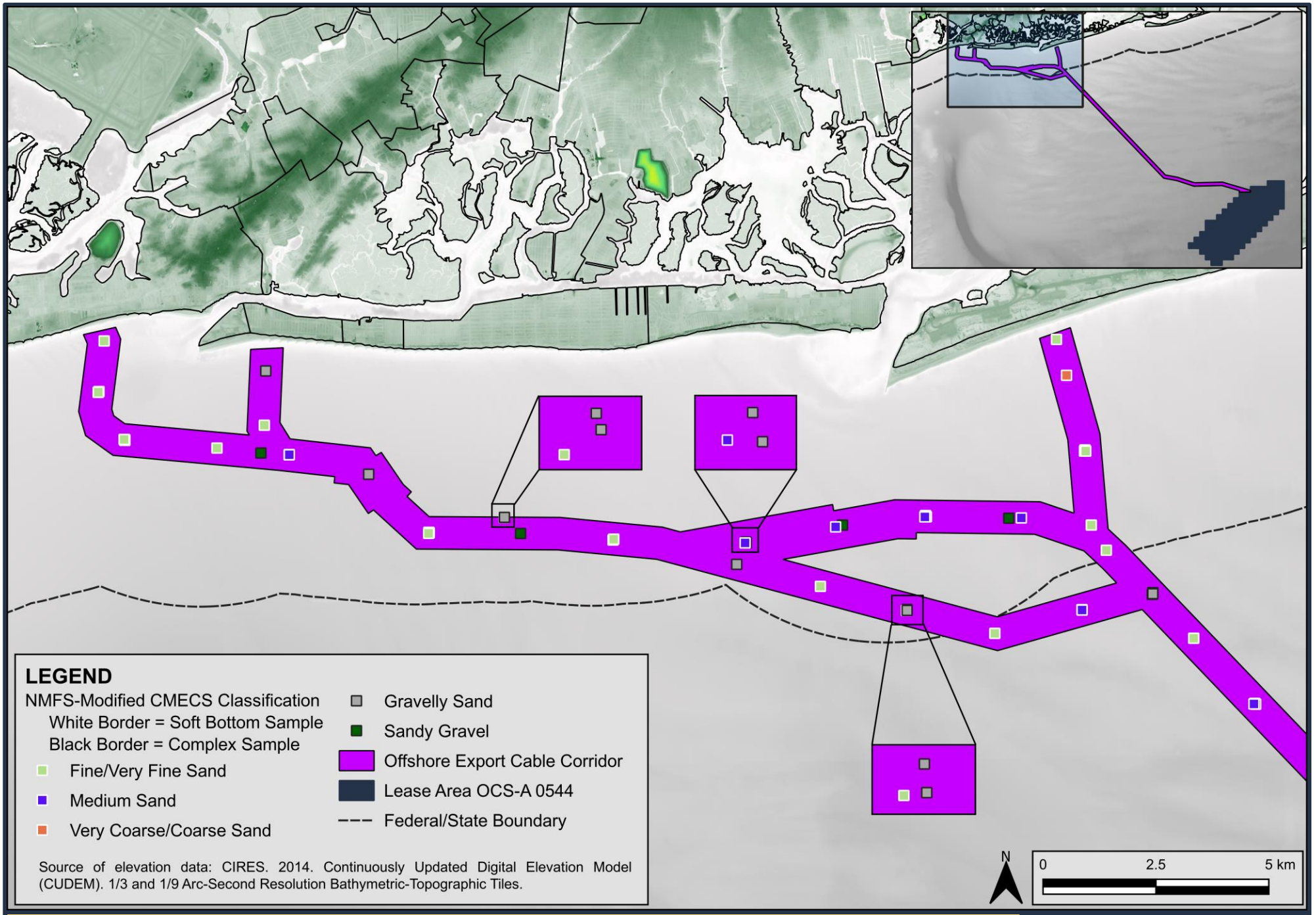

Figure 8.1-5
OECC Benthic Grab Sample CMECS Classifications, Nearshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

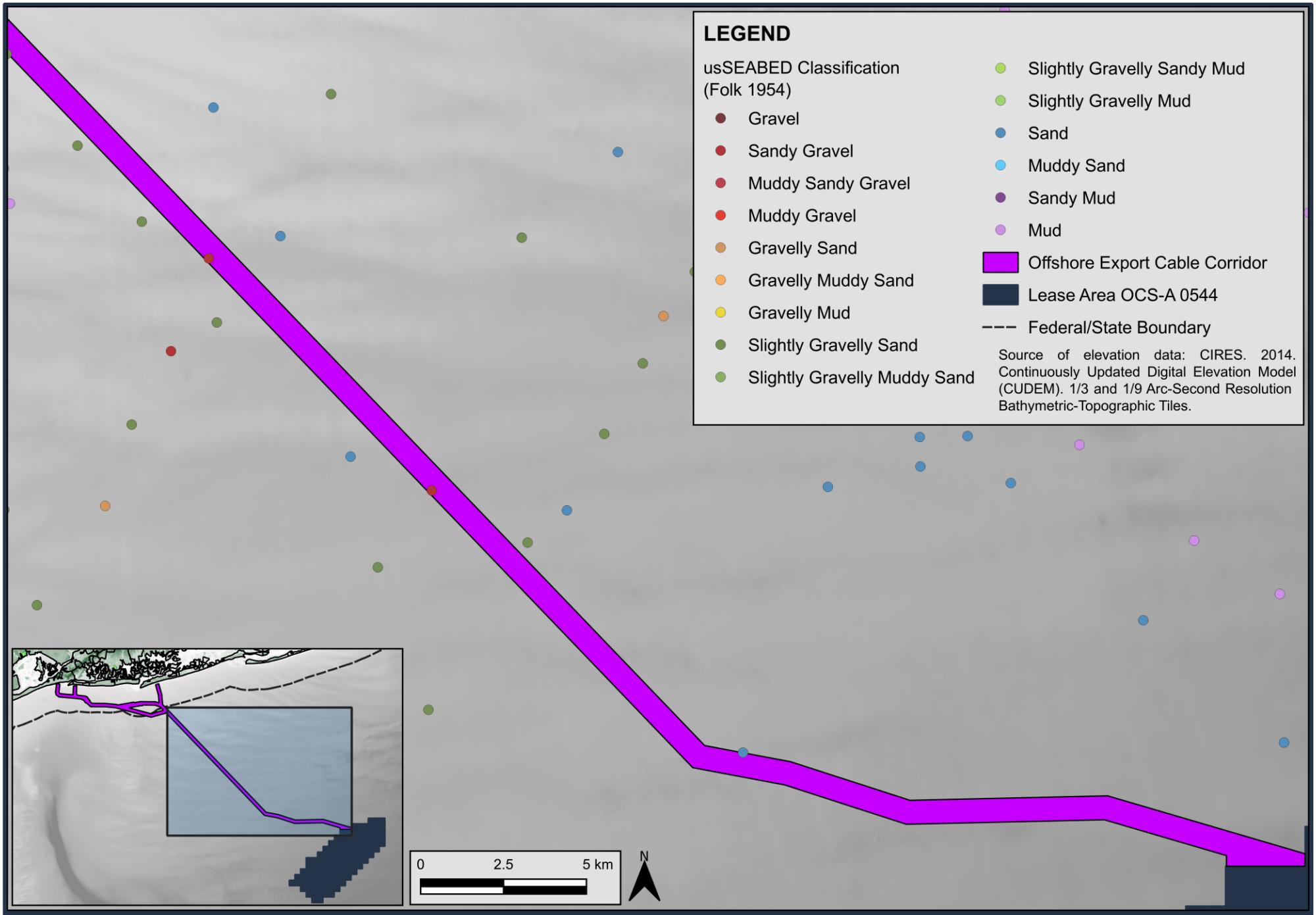

Figure 8.1-6
usSEABED Sample Classifications in the OECC, Offshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

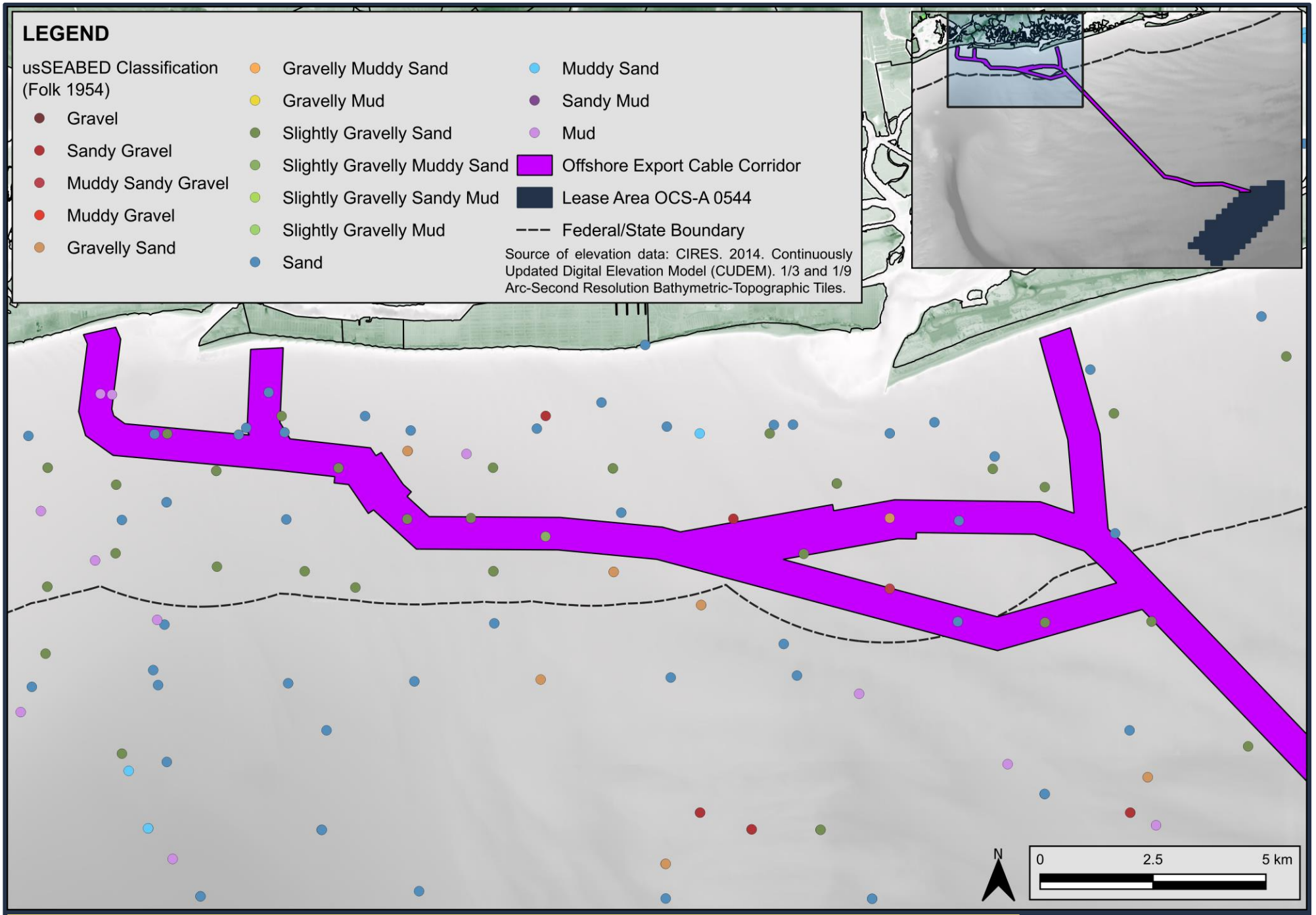

Figure 8.1-7
usSEABED Sample Classifications in the OECC, Nearshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

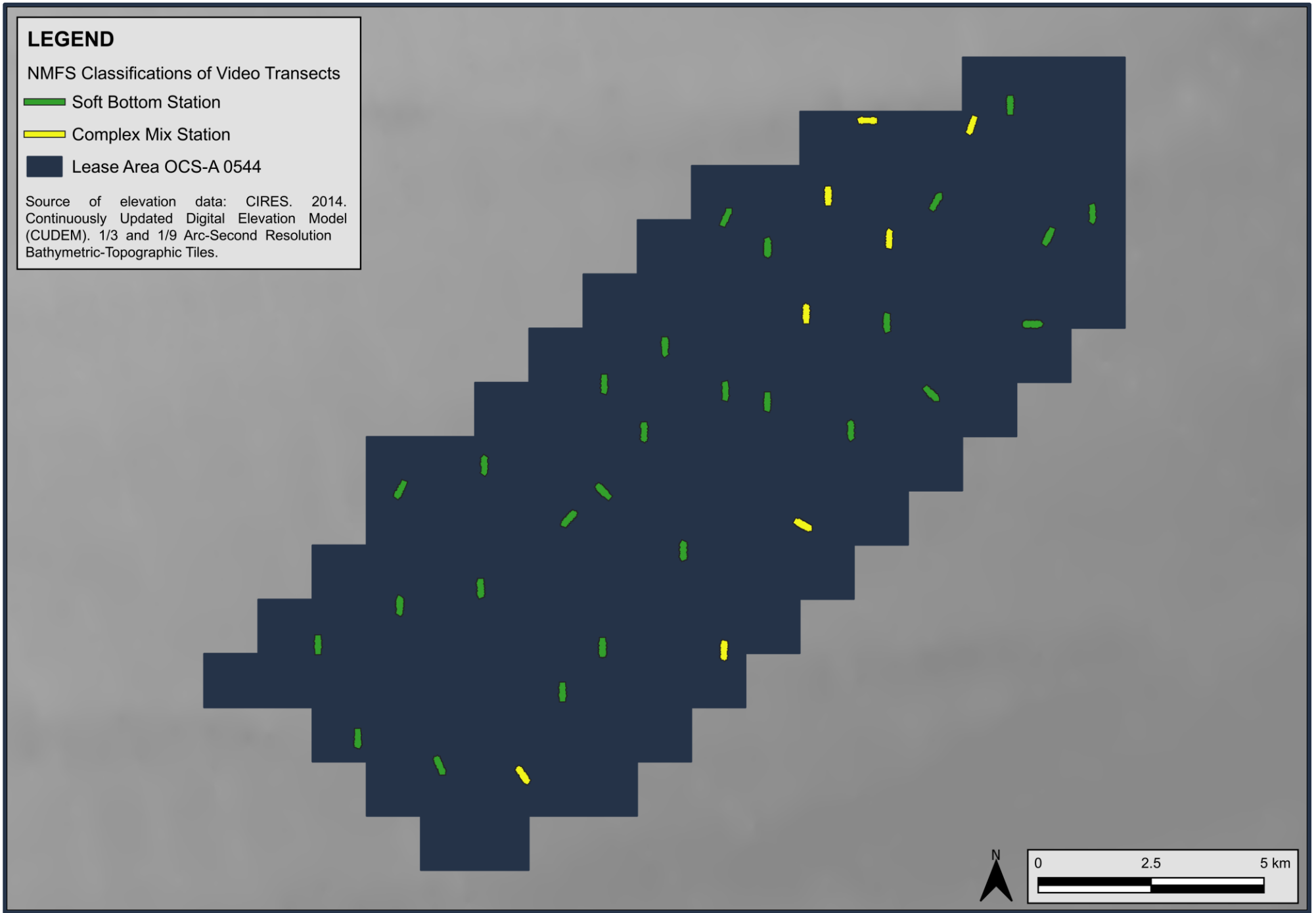

Figure 8.1-8
Lease Area Video Transect NMFS Classifications

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

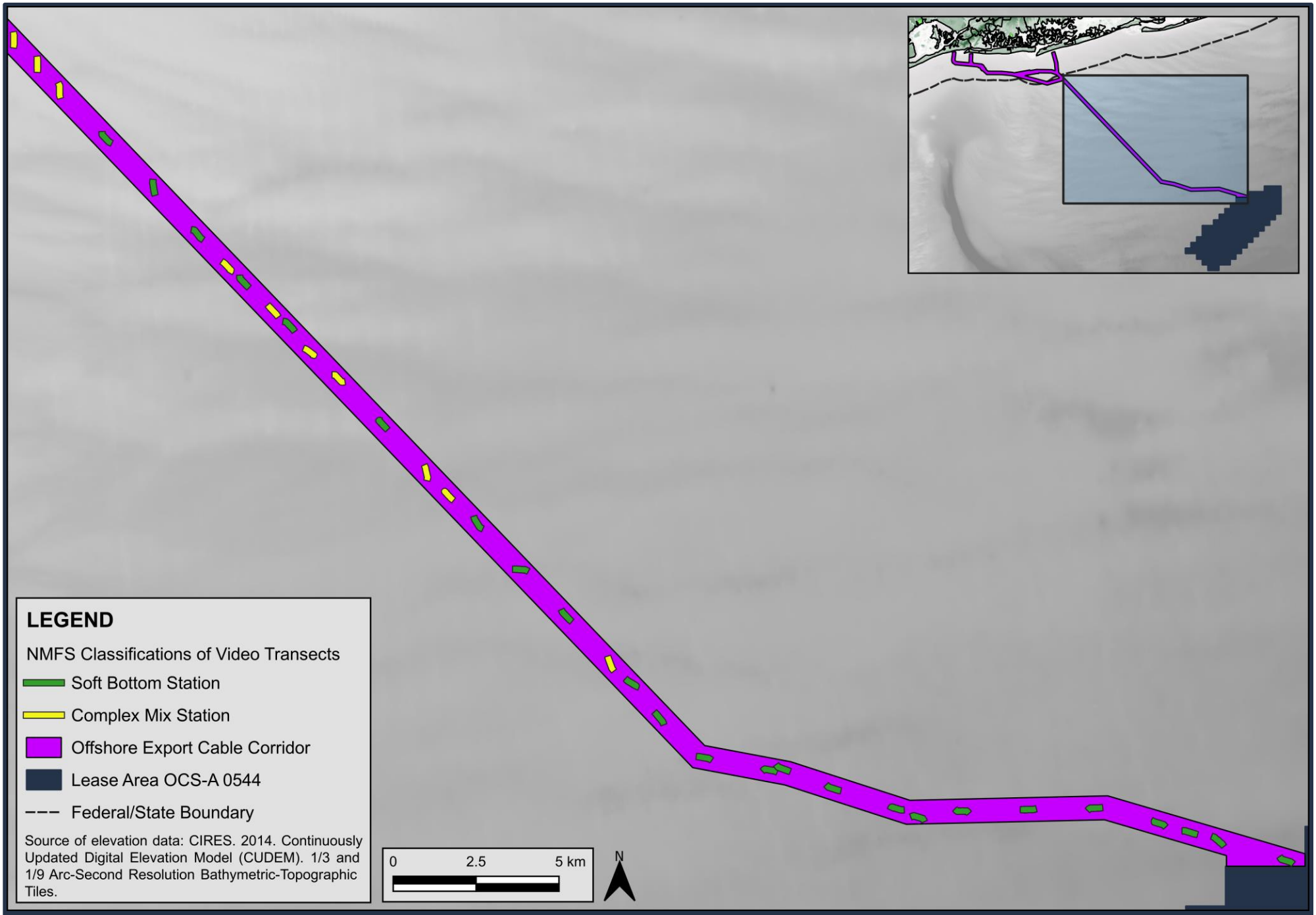

Figure 8.1-9
OECC Video Transect NMFS Classifications, Offshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

Figure 8.1-10
OECC Video Transect NMFS Classifications, Nearshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

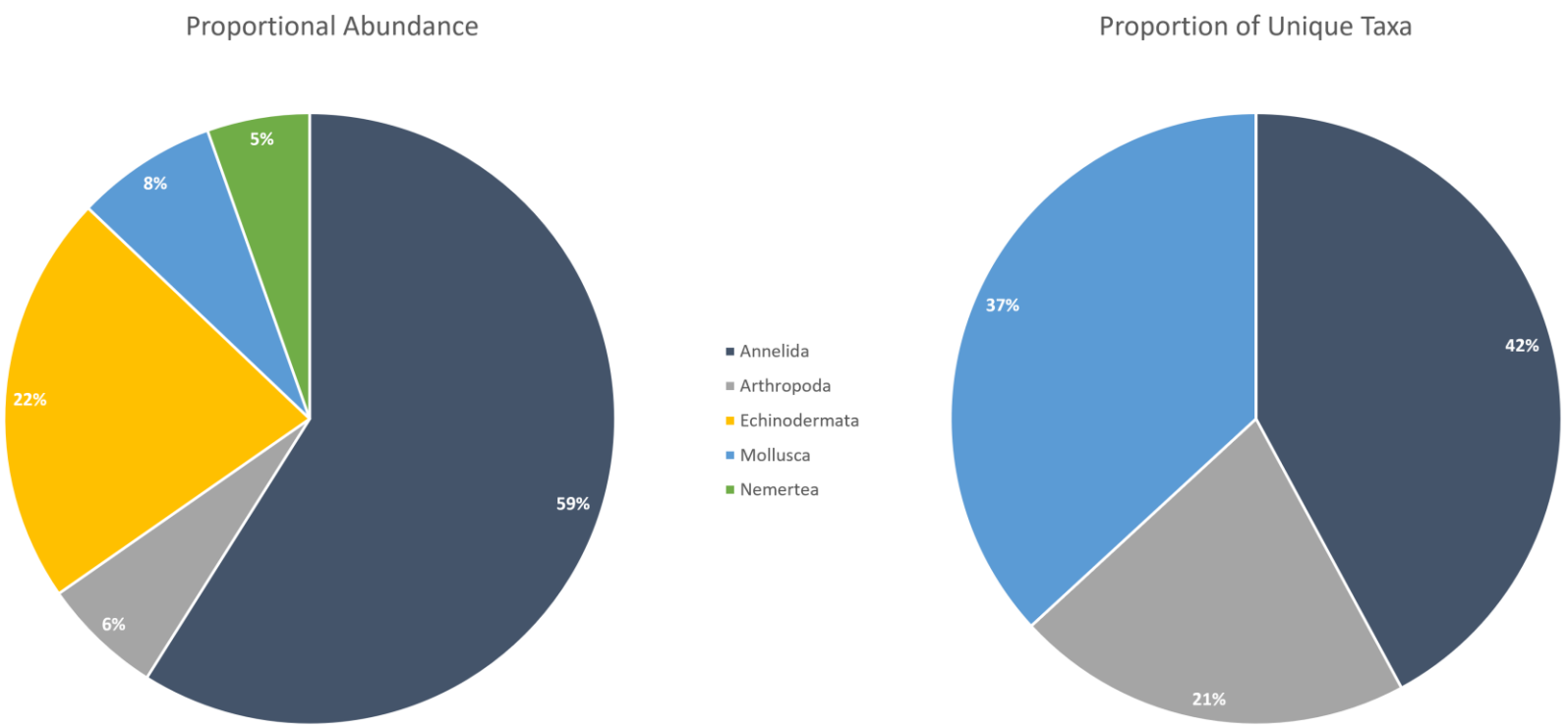

Figure 8.1-11
Infauna Proportional Abundance and Unique Taxa by Phylum in the Lease Area

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

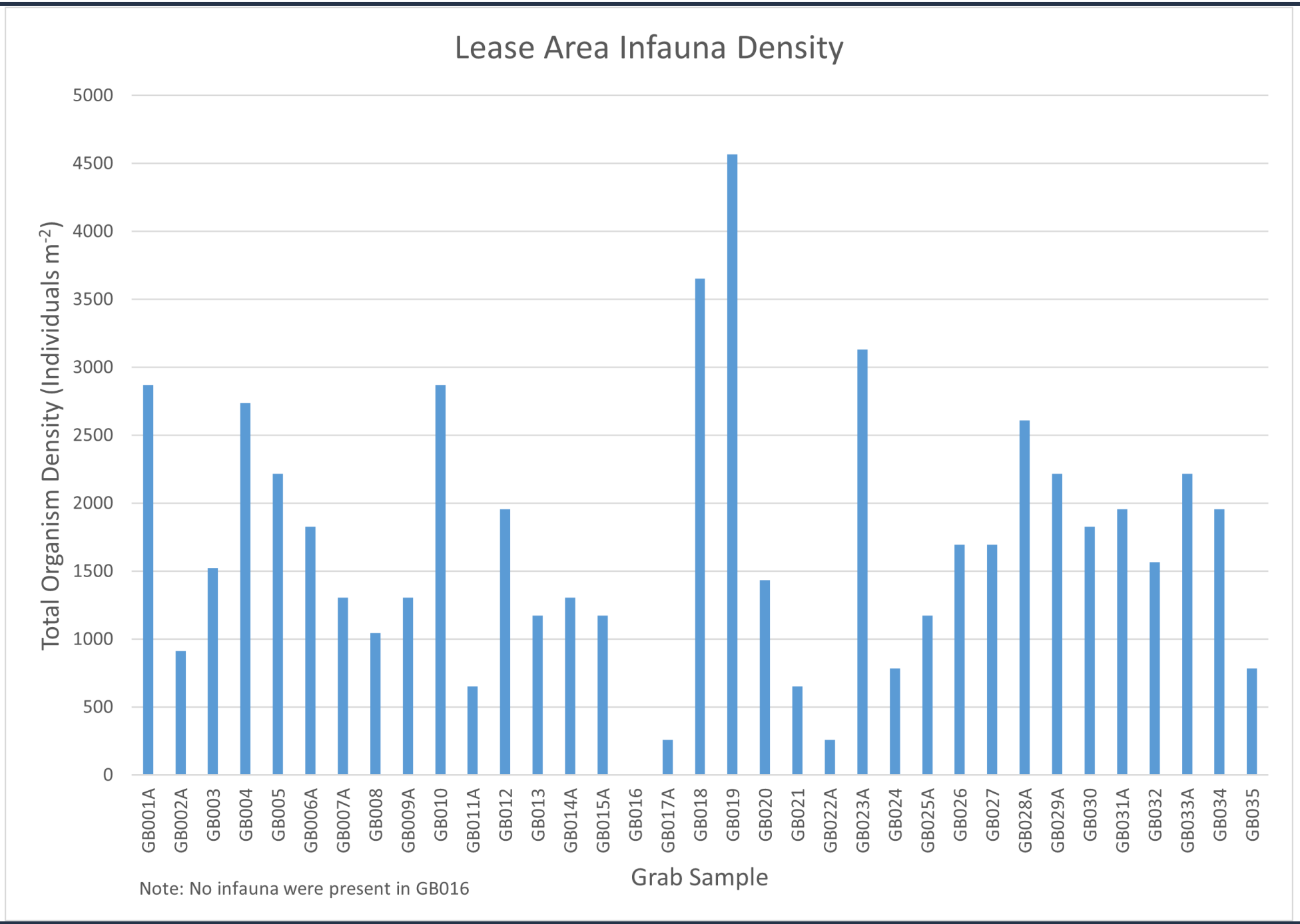

Figure 8.1-12
Lease Area Infauna Density

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

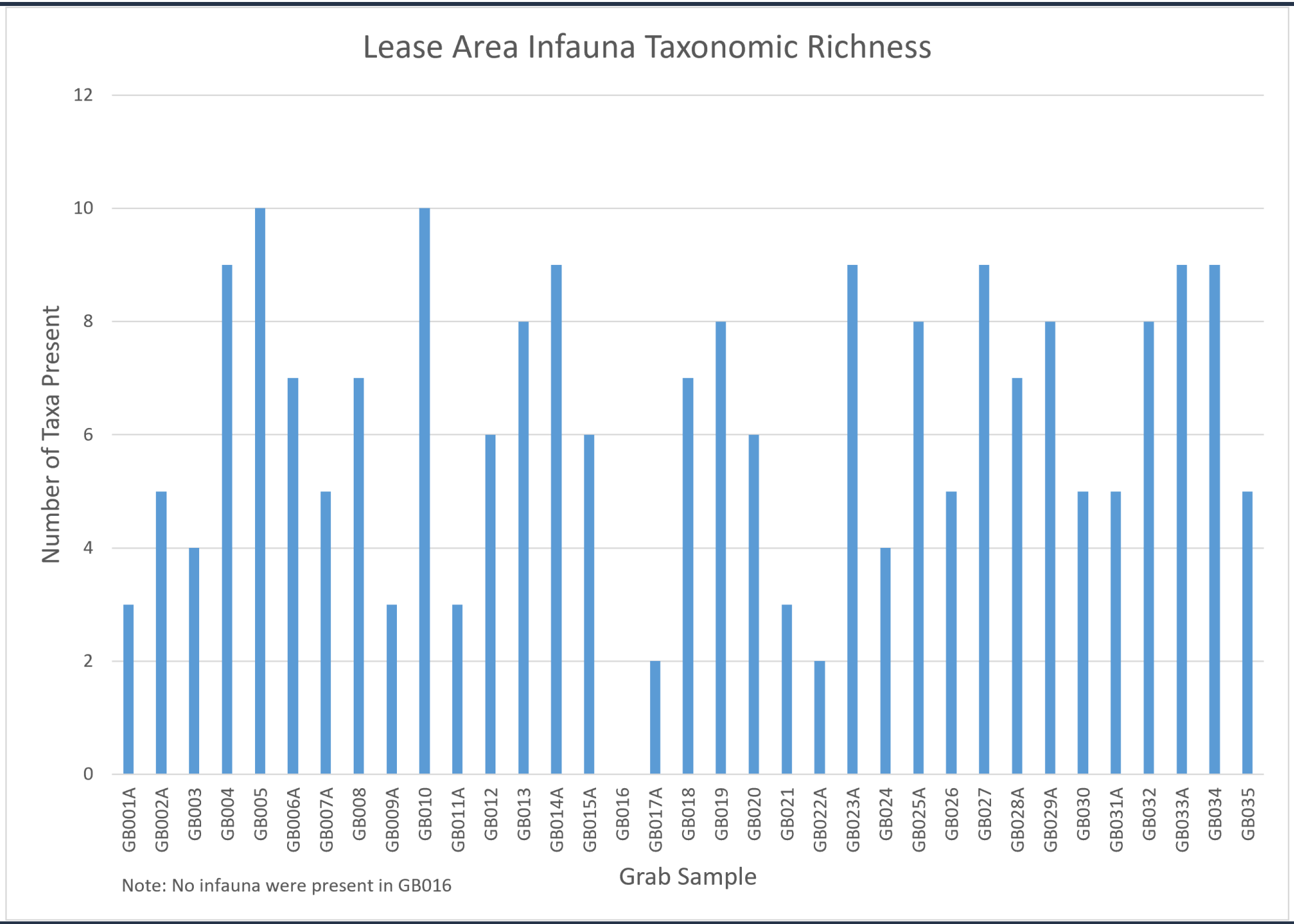

Figure 8.1-13
Lease Area Infauna Taxonomic Richness

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

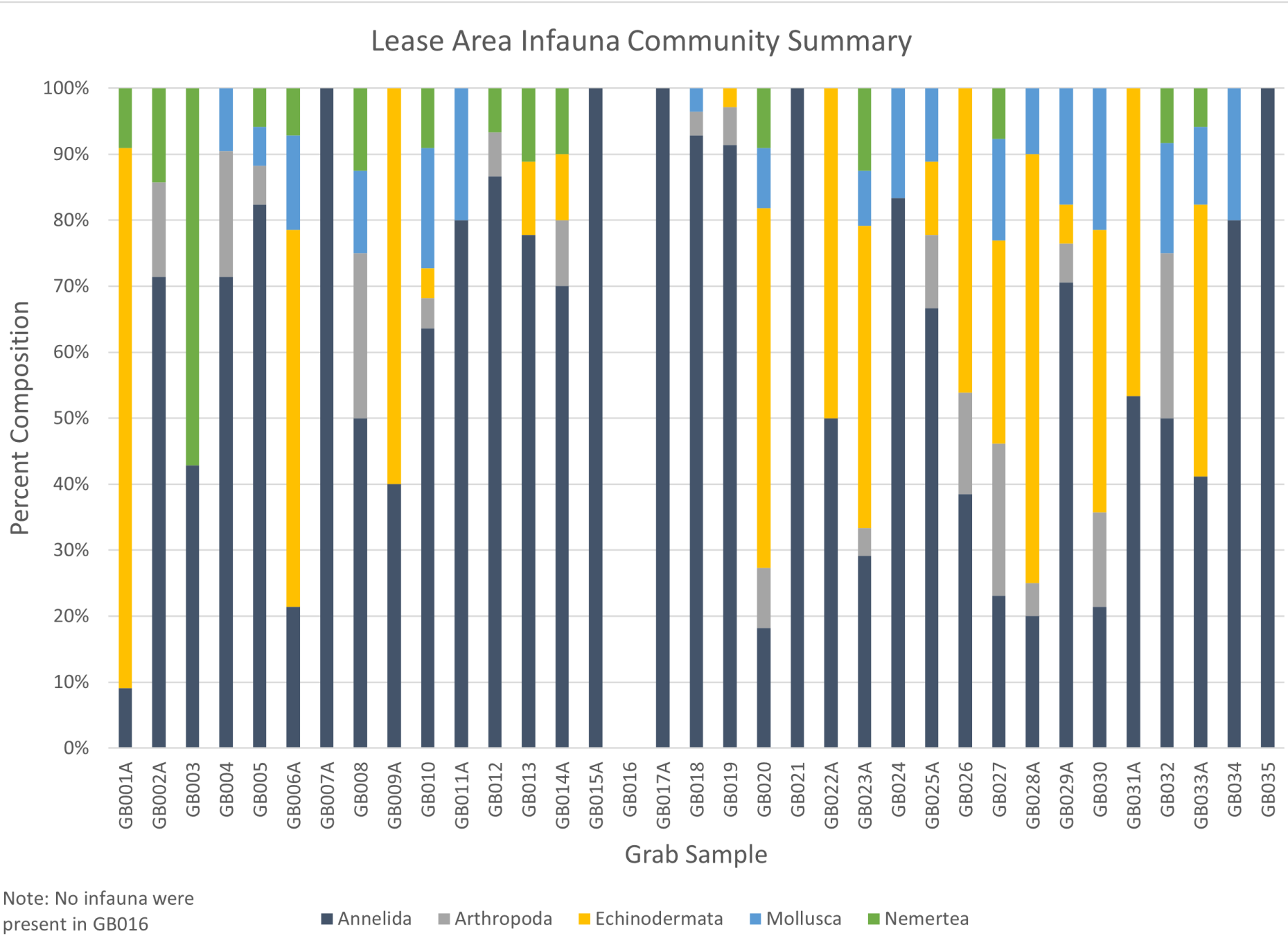

Figure 8.1-14
Lease Area Infauna Community Summary

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

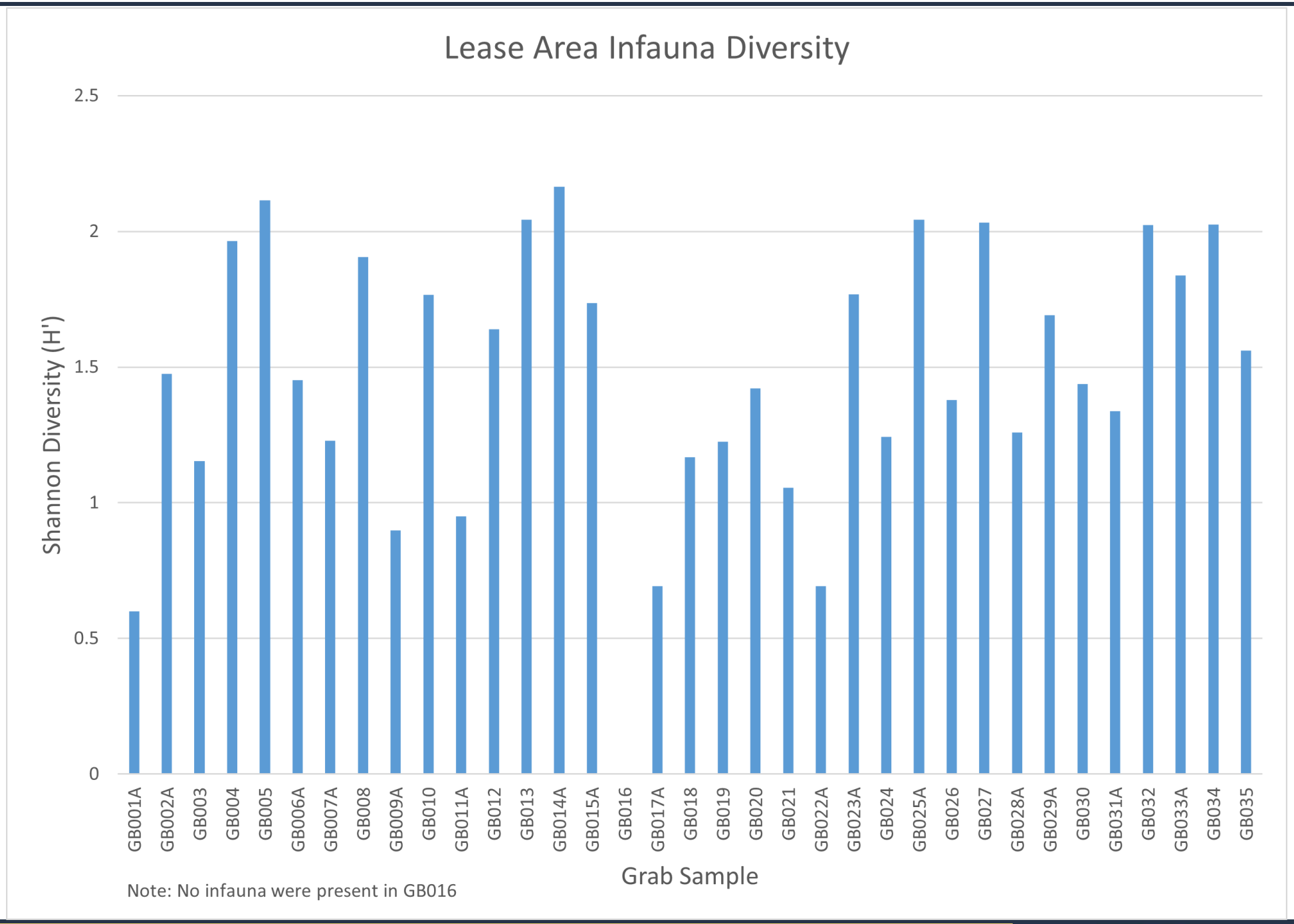

Figure 8.1-15
Lease Area Infauna Diversity

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

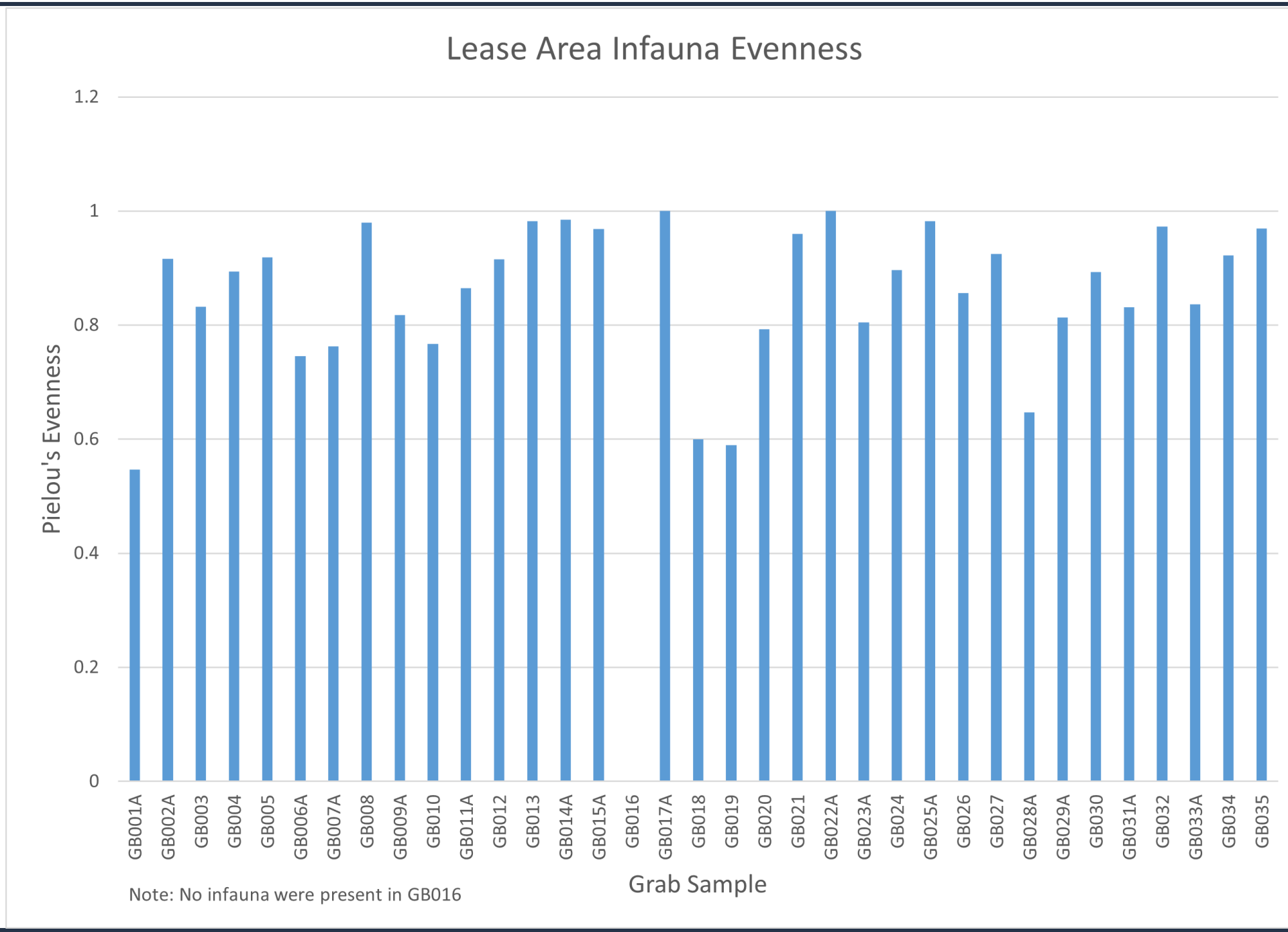

Figure 8.1-16
Lease Area Infauna Evenness

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

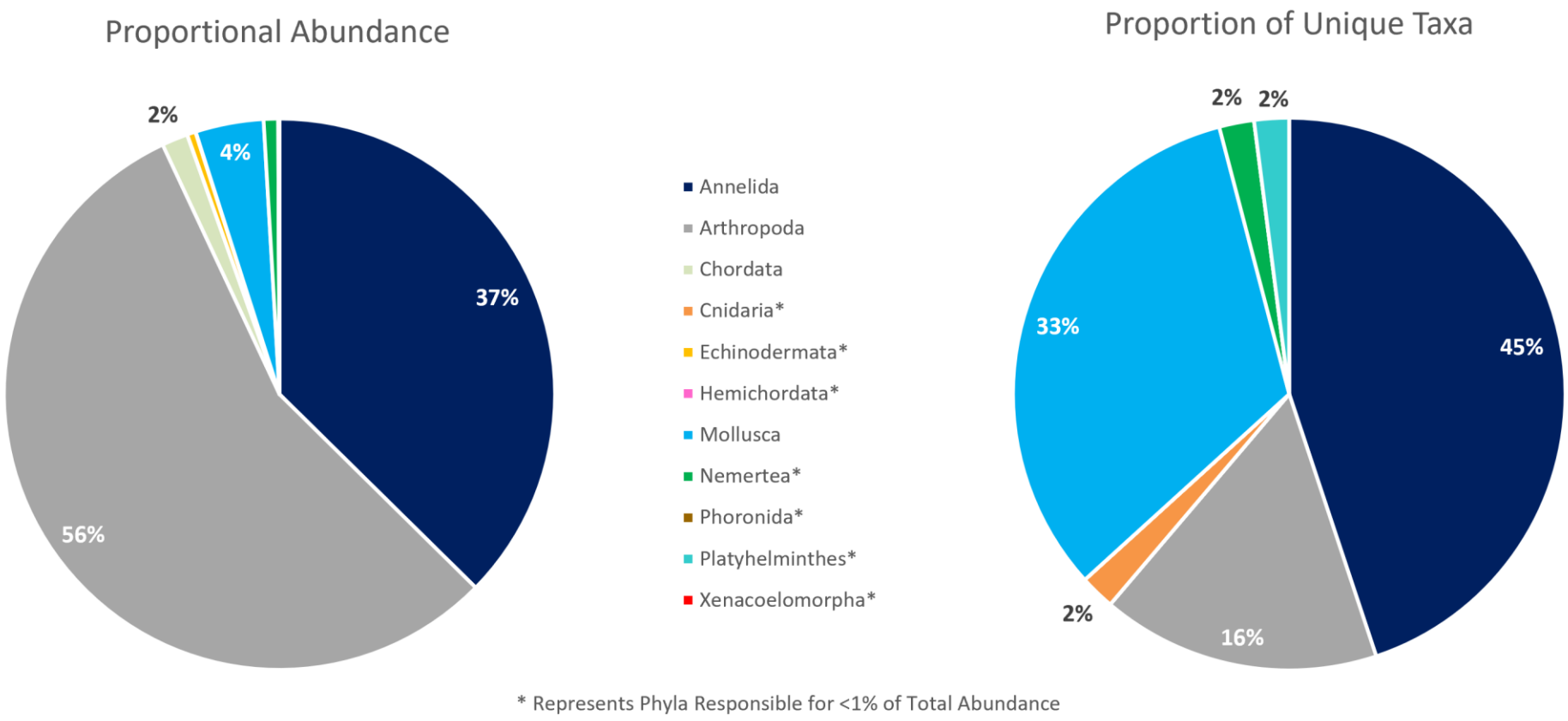

Figure 8.1-17
Infauna Proportional Abundance and Unique Taxa by Phylum in the OECC

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

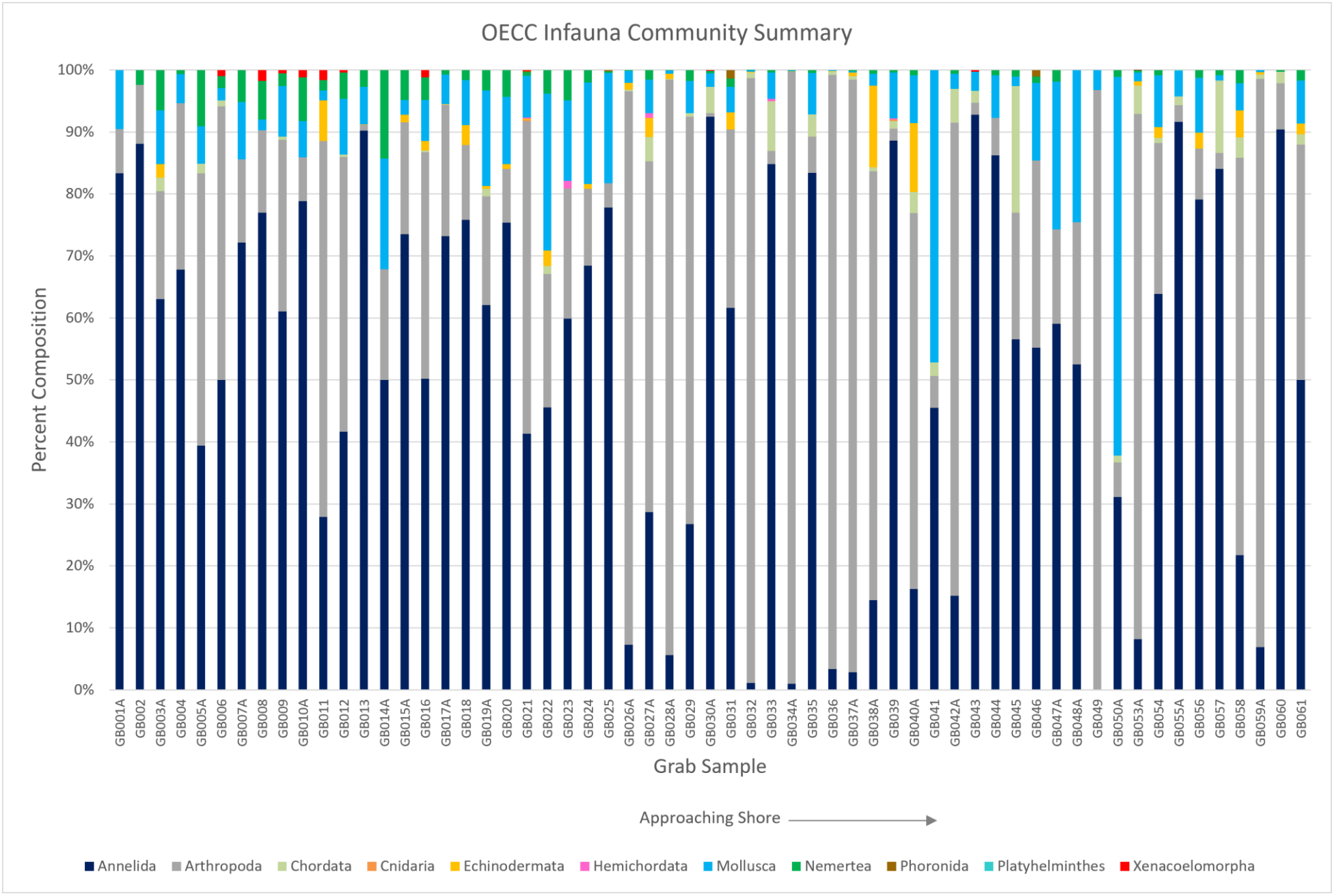

Figure 8.1-18
OECC Infauna Community Summary

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

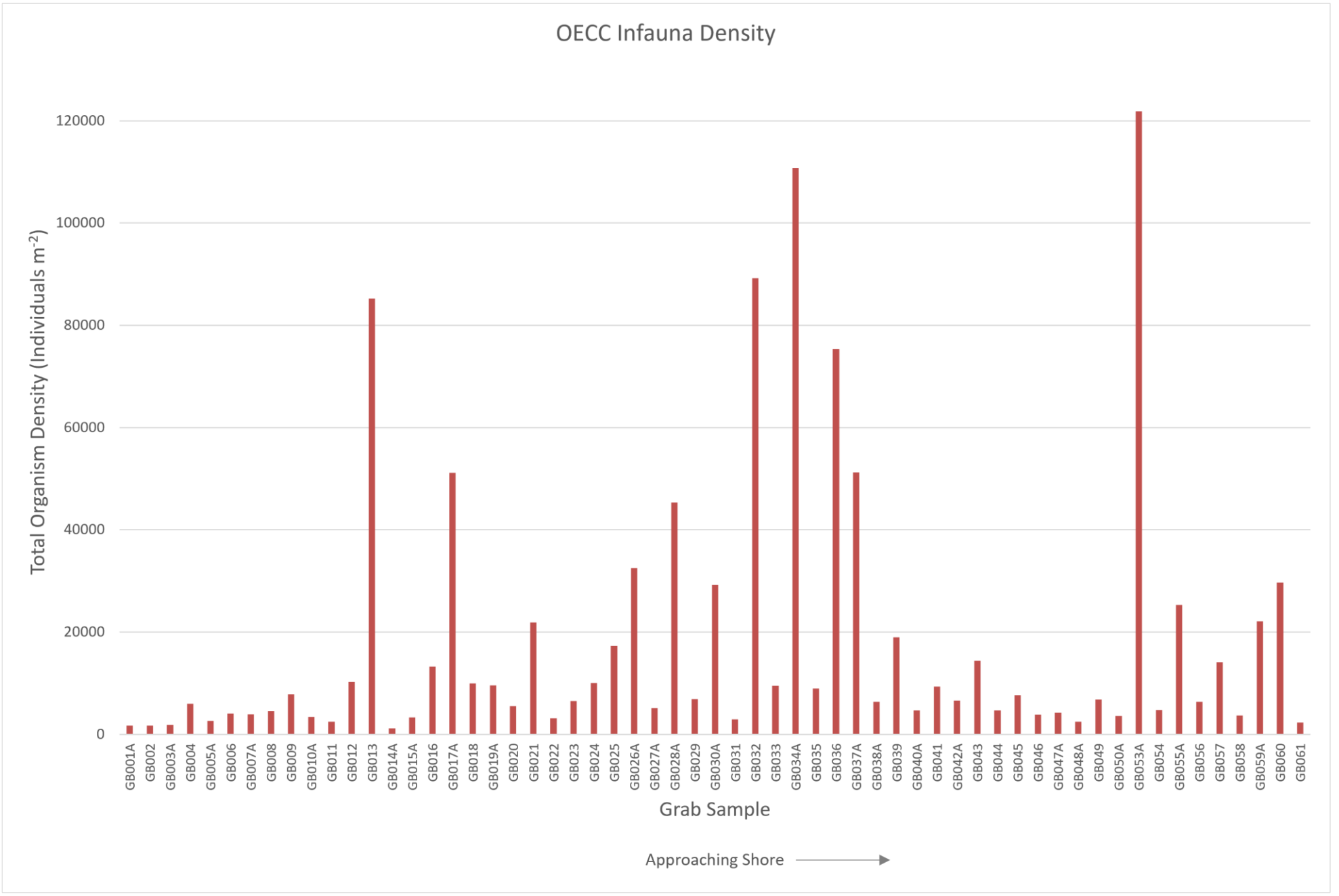

Figure 8.1-19
OECC Infauna Density

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

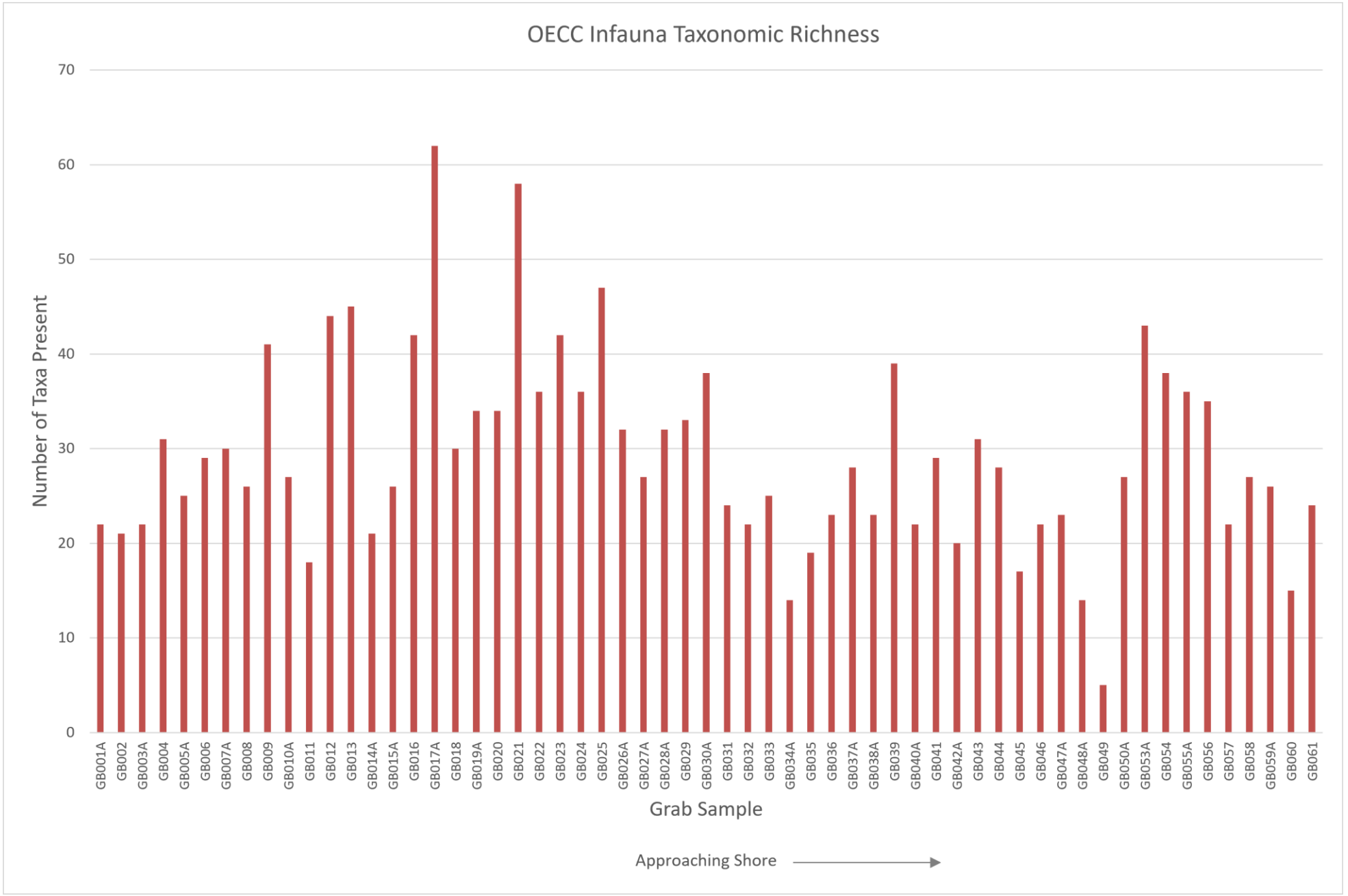

Figure 8.1-20
OECC Infauna Taxonomic Richness

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

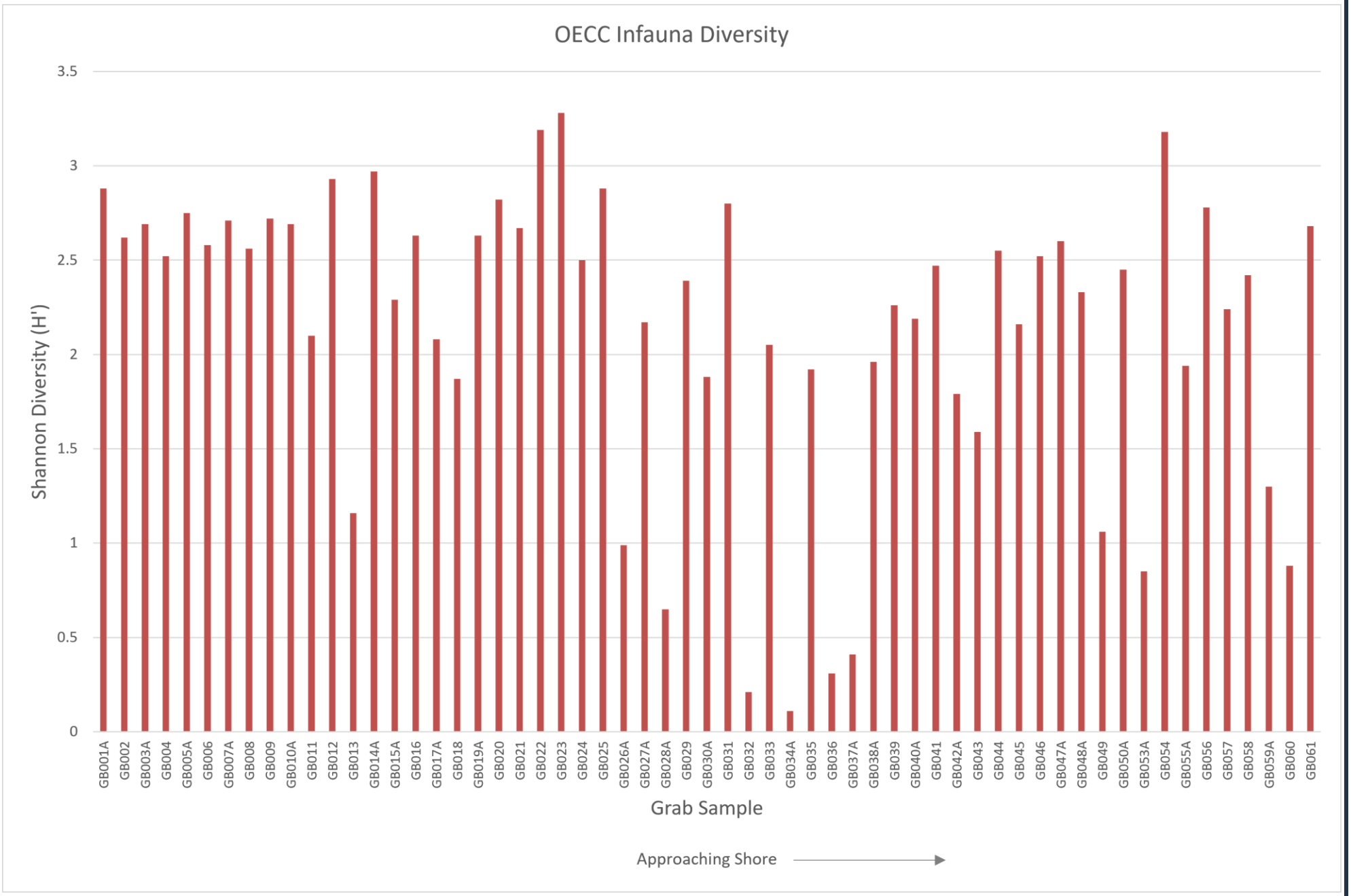

Figure 8.1-21
OECC Infauna Diversity

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

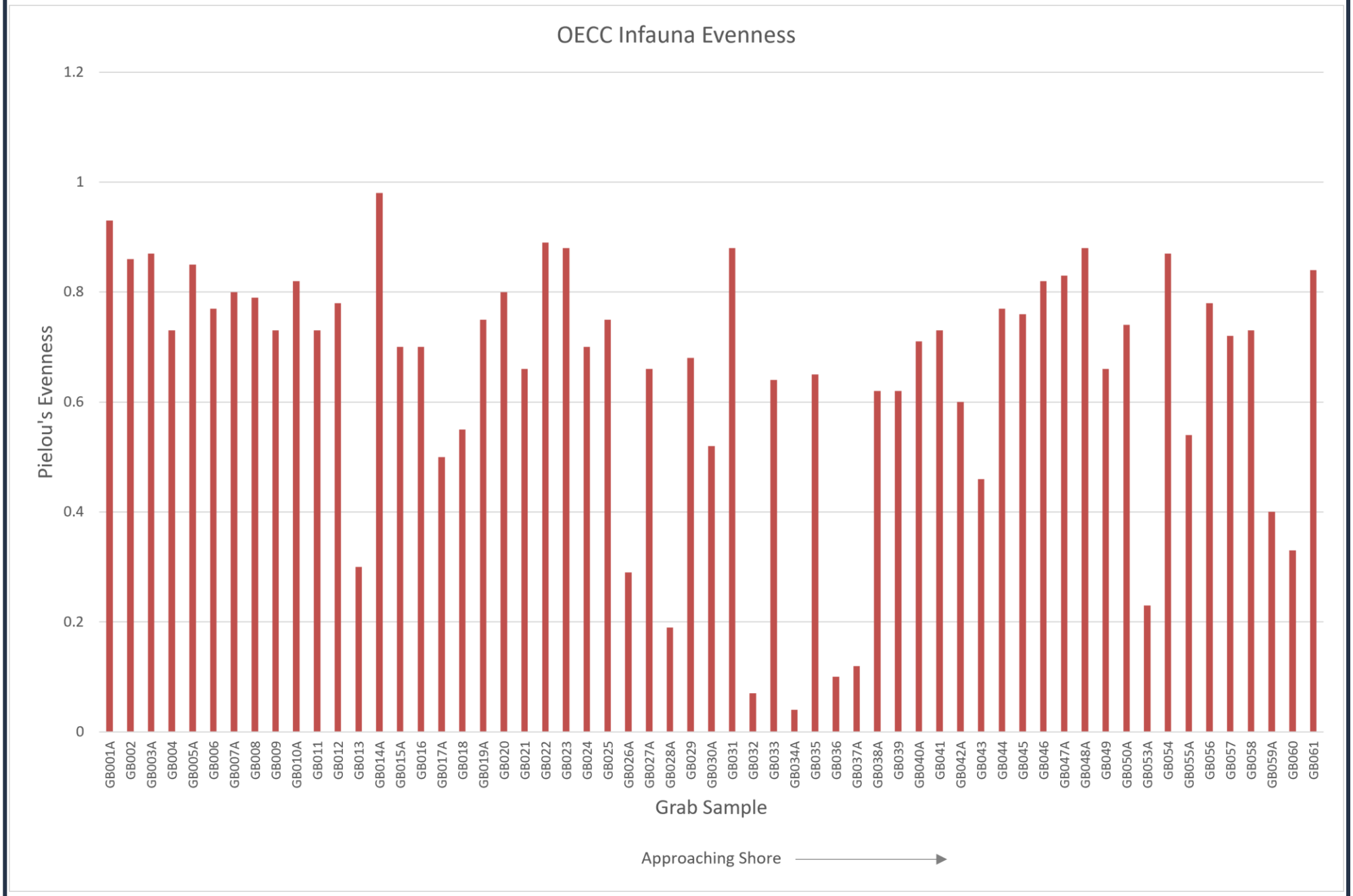

Figure 8.1-22
OECC Infauna Evenness

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

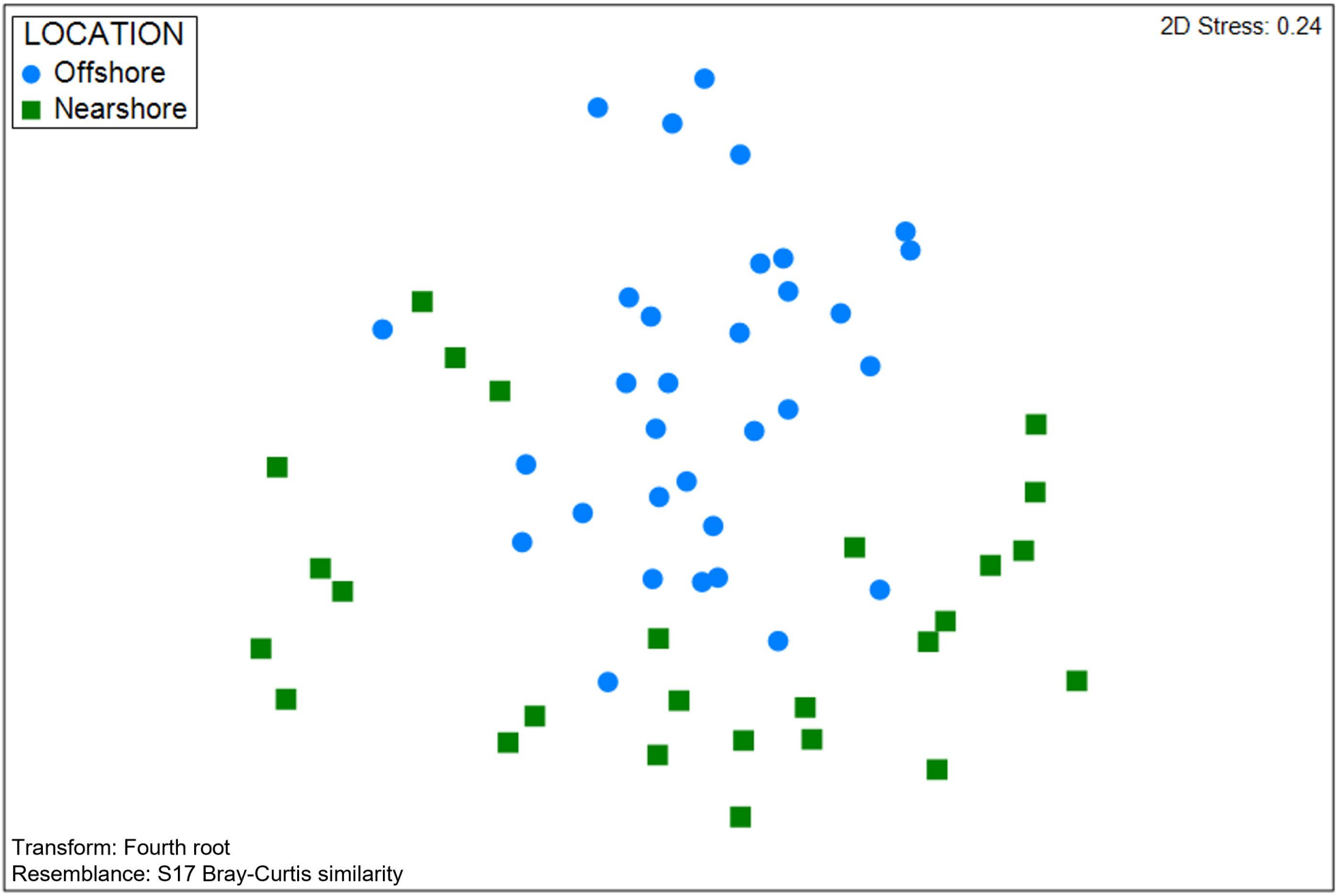

Figure 8.1-23
NMDS Ordination of Community Composition in OECC Benthic Infauna Samples Comparing Nearshore and Offshore Waters

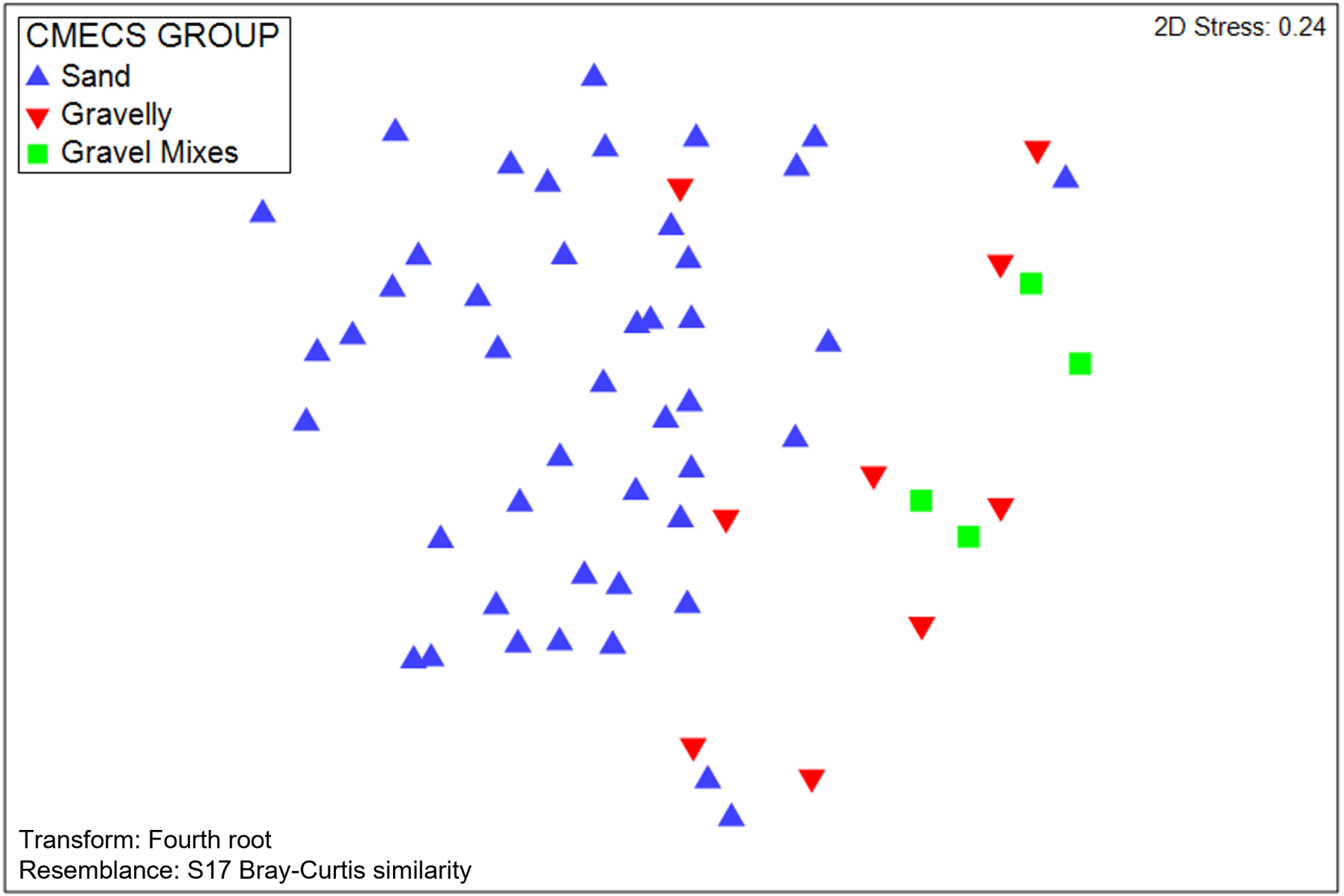

Figure 8.1-24
NMDS Ordination of Community Composition in OECC Benthic Infauna Samples by CMECS Substrate Group

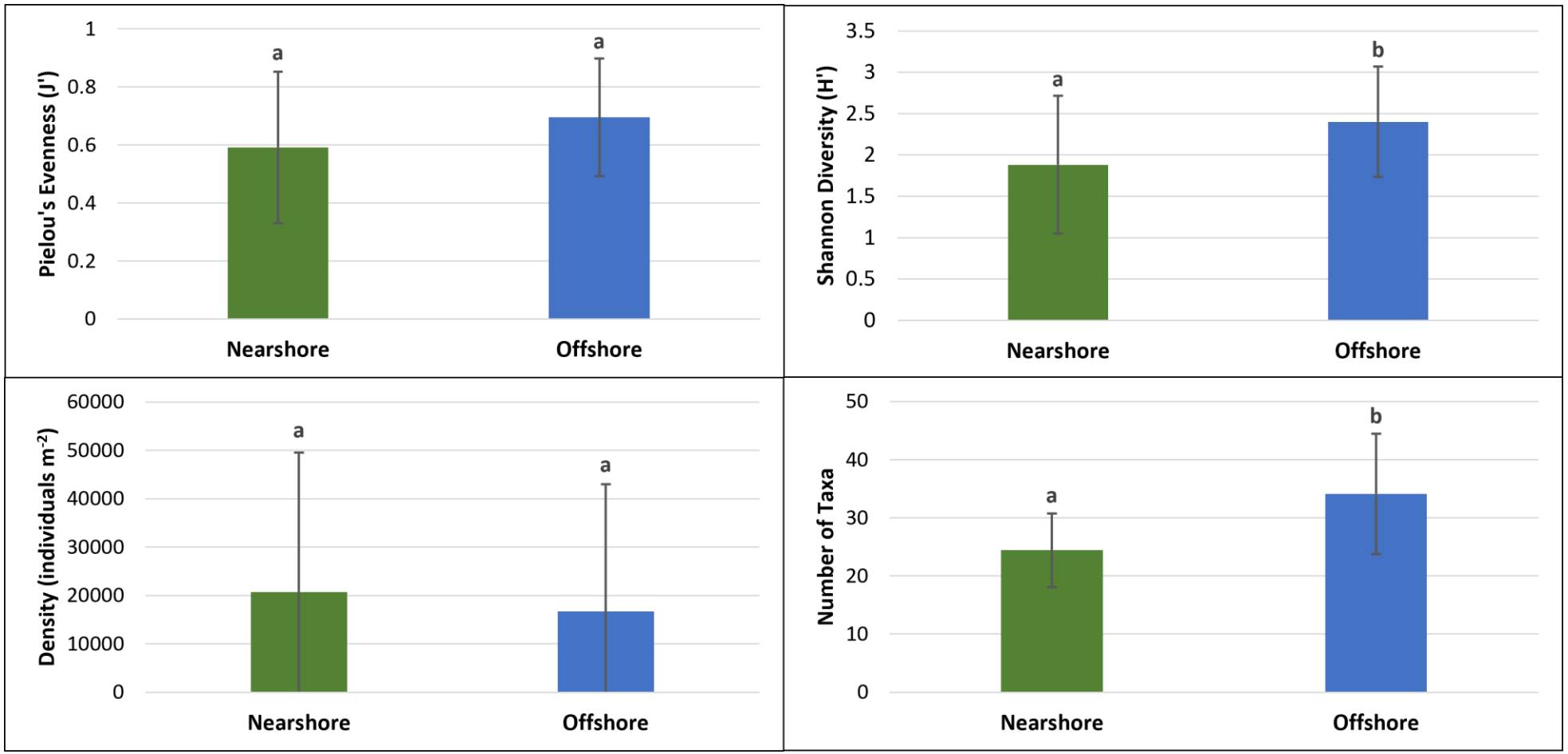

Figure 8.1-25
Comparison of Community Metrics between OECC Nearshore and Offshore Samples

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

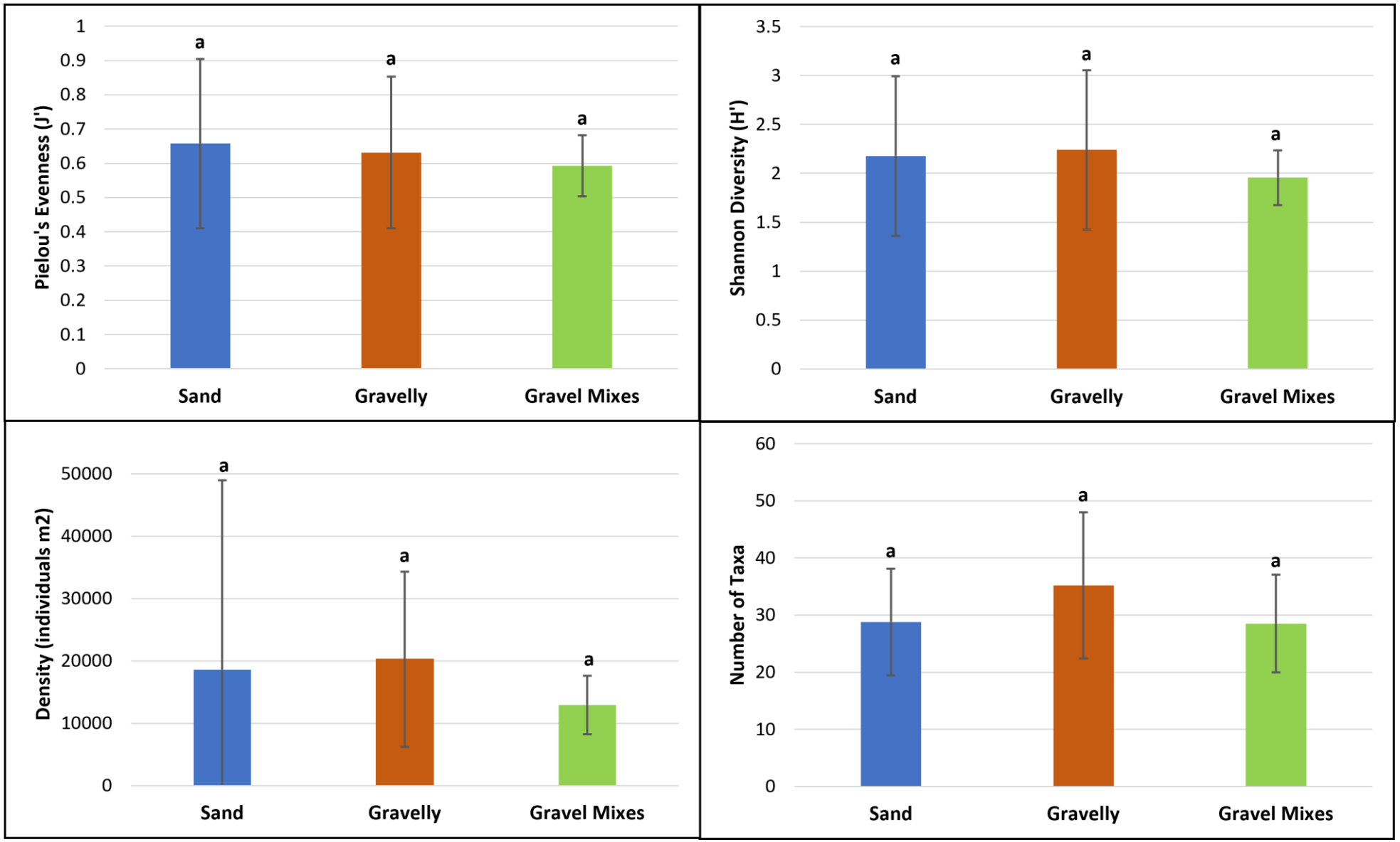

Figure 8.1-26
Comparison of Community Metrics across CMECS Substrate Groups in the OECC

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

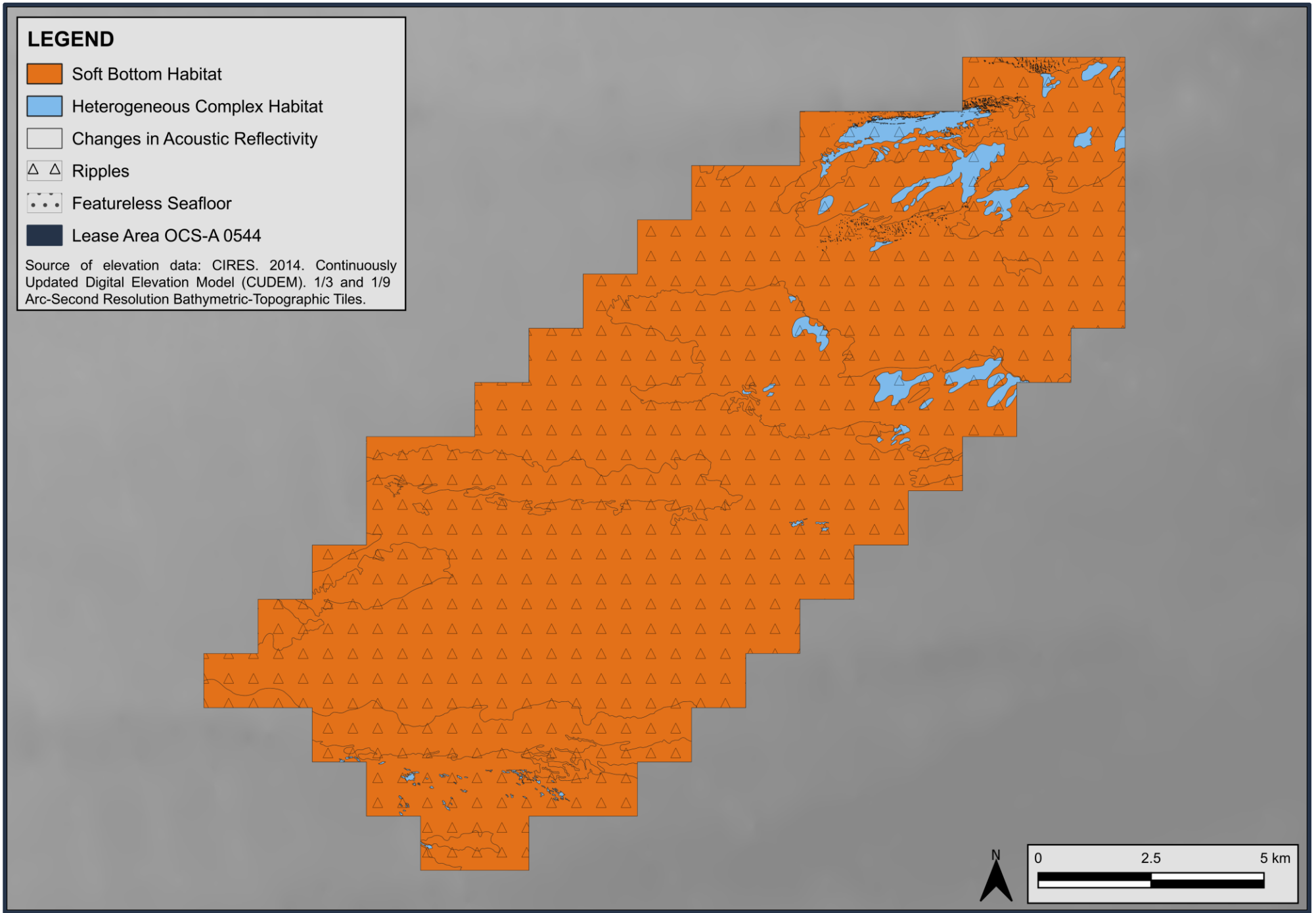

Figure 8.2-1
NMFS Habitat Mapping Lease Area

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

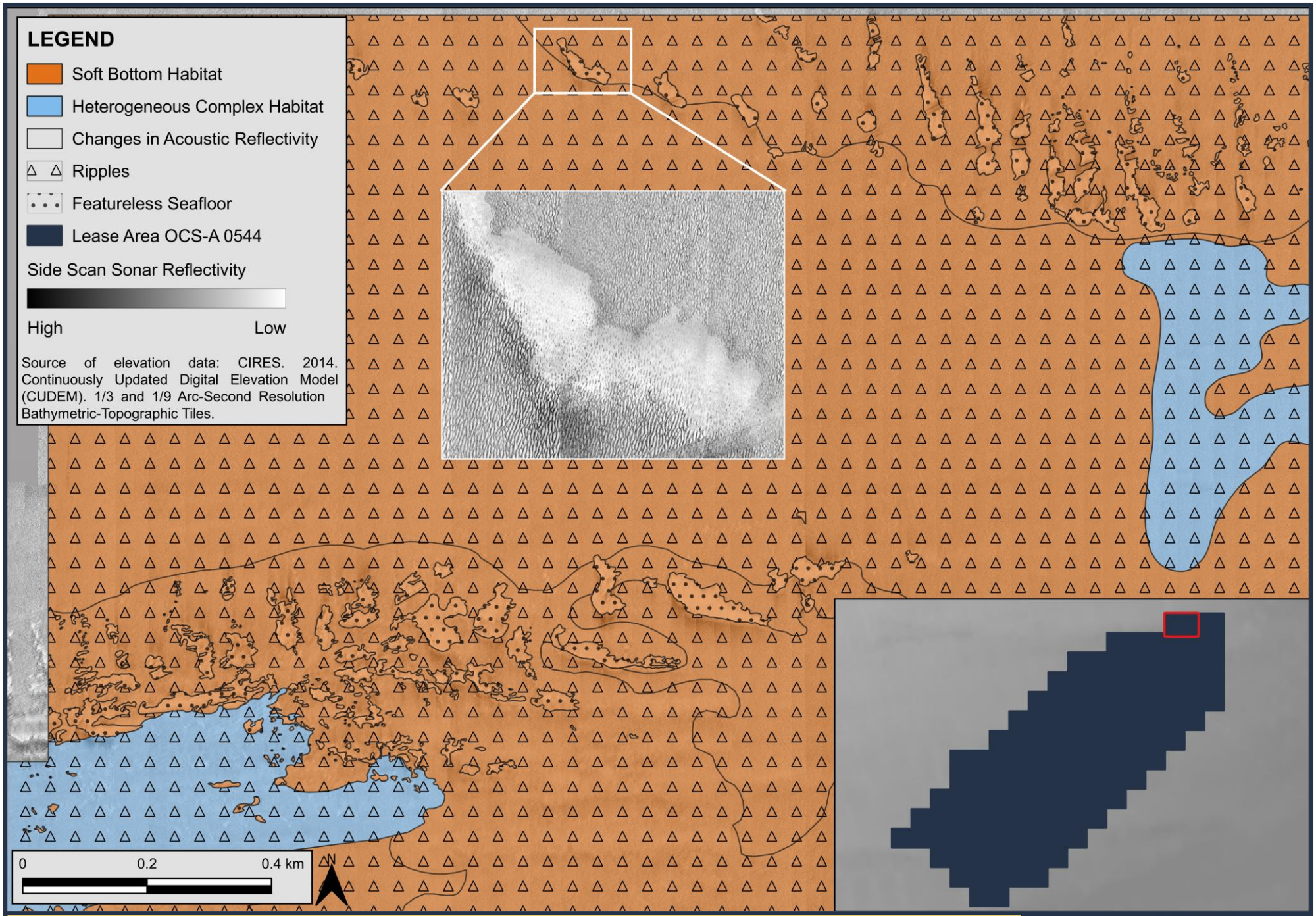

Figure 8.2-2
Patches of Silty Sand in the Lease Area

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

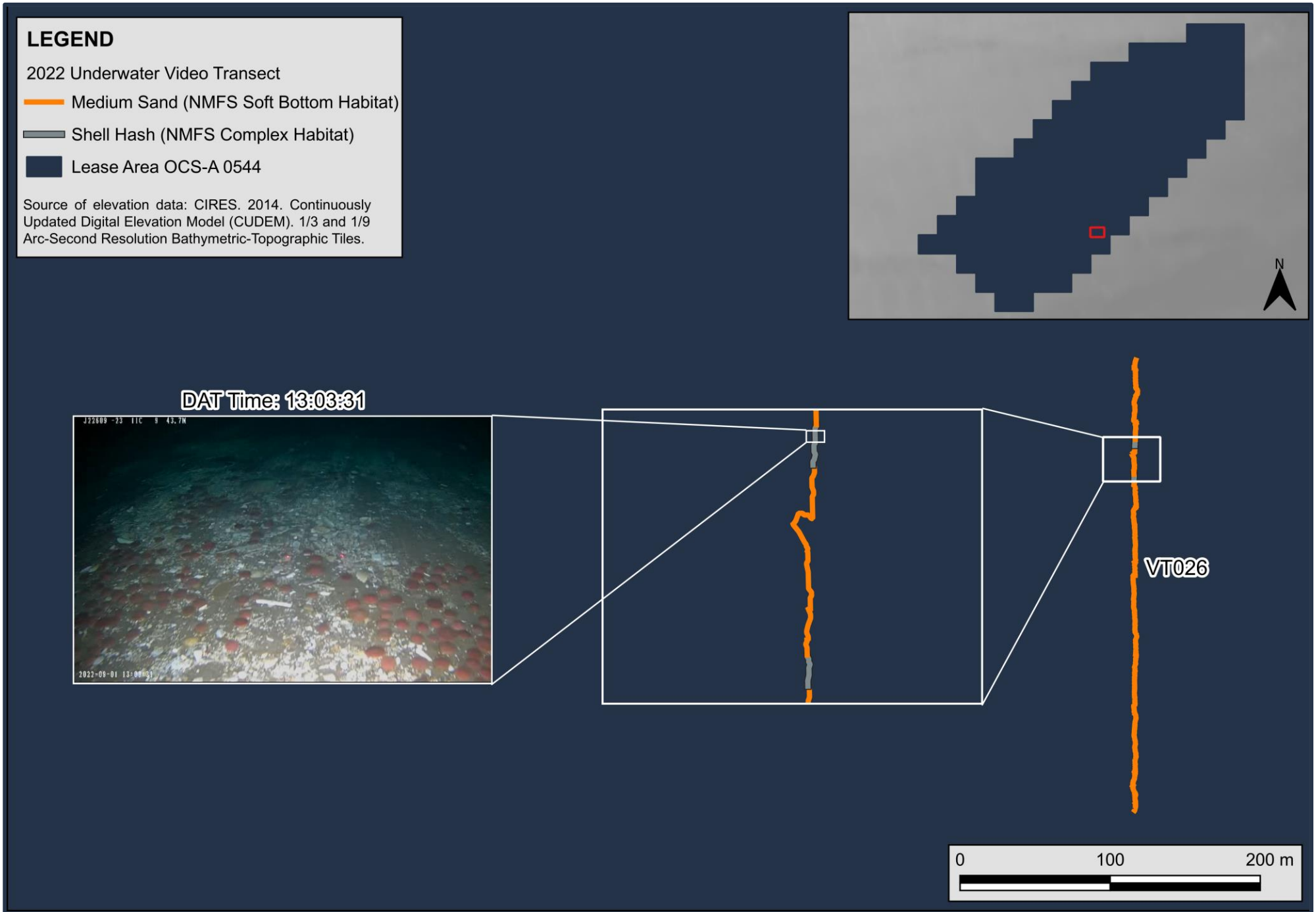

Figure 8.2-3
Shell Hash Observed in the Lease Area

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

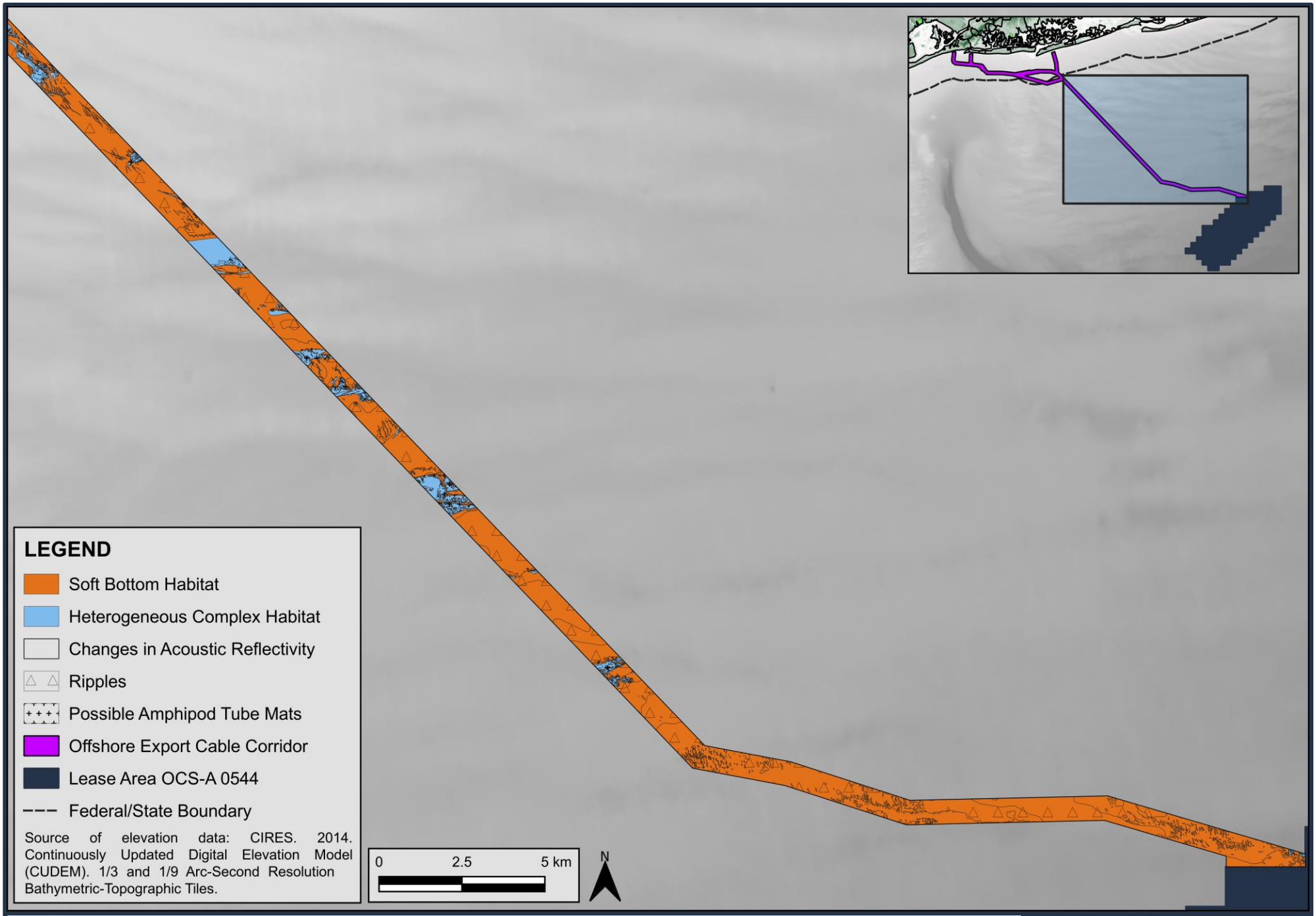

Figure 8.2-4
NMFS Habitat Mapping, OECC Offshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

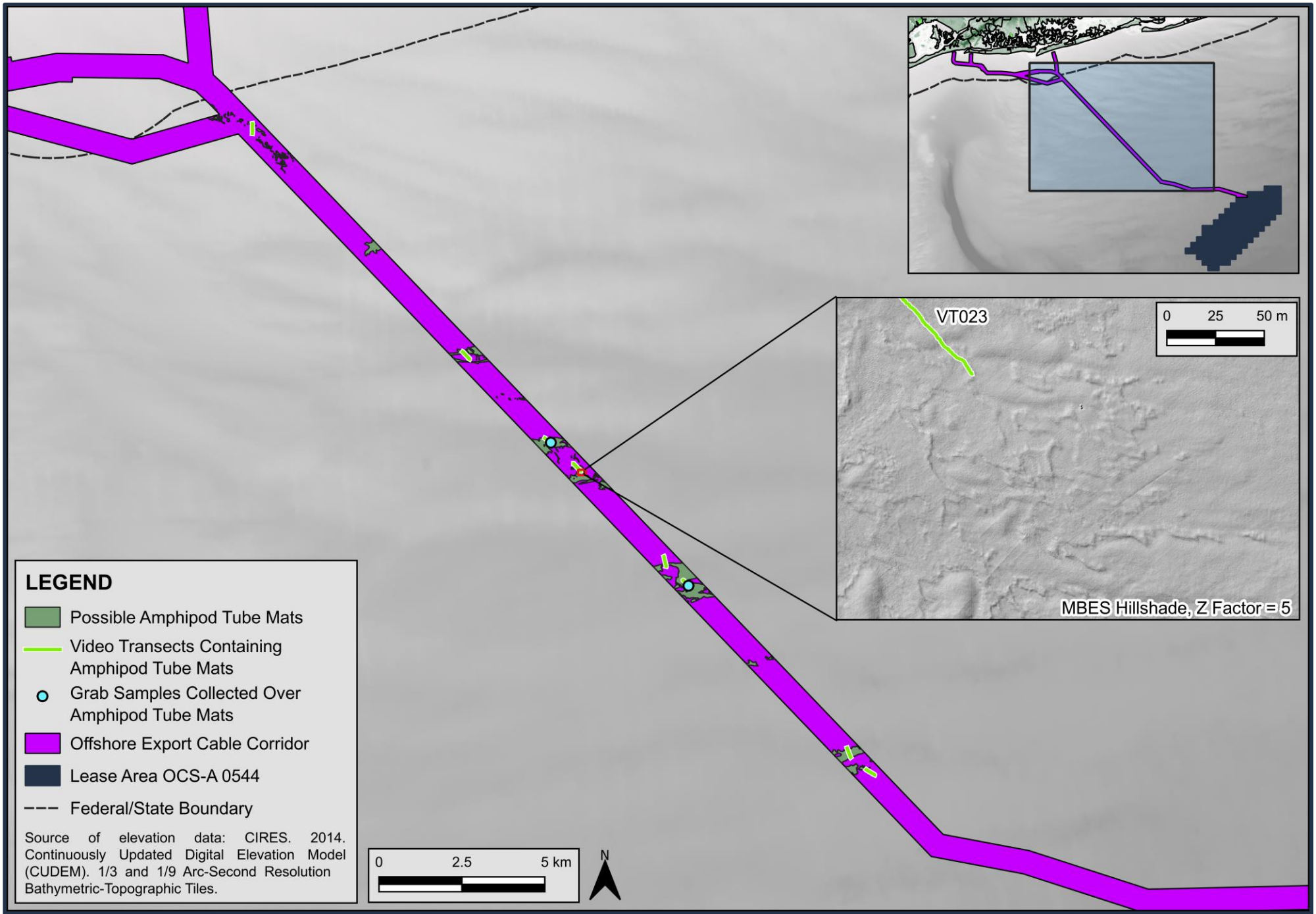

Figure 8.2-5
Amphipod Tube Mats in the OECC, Overview

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

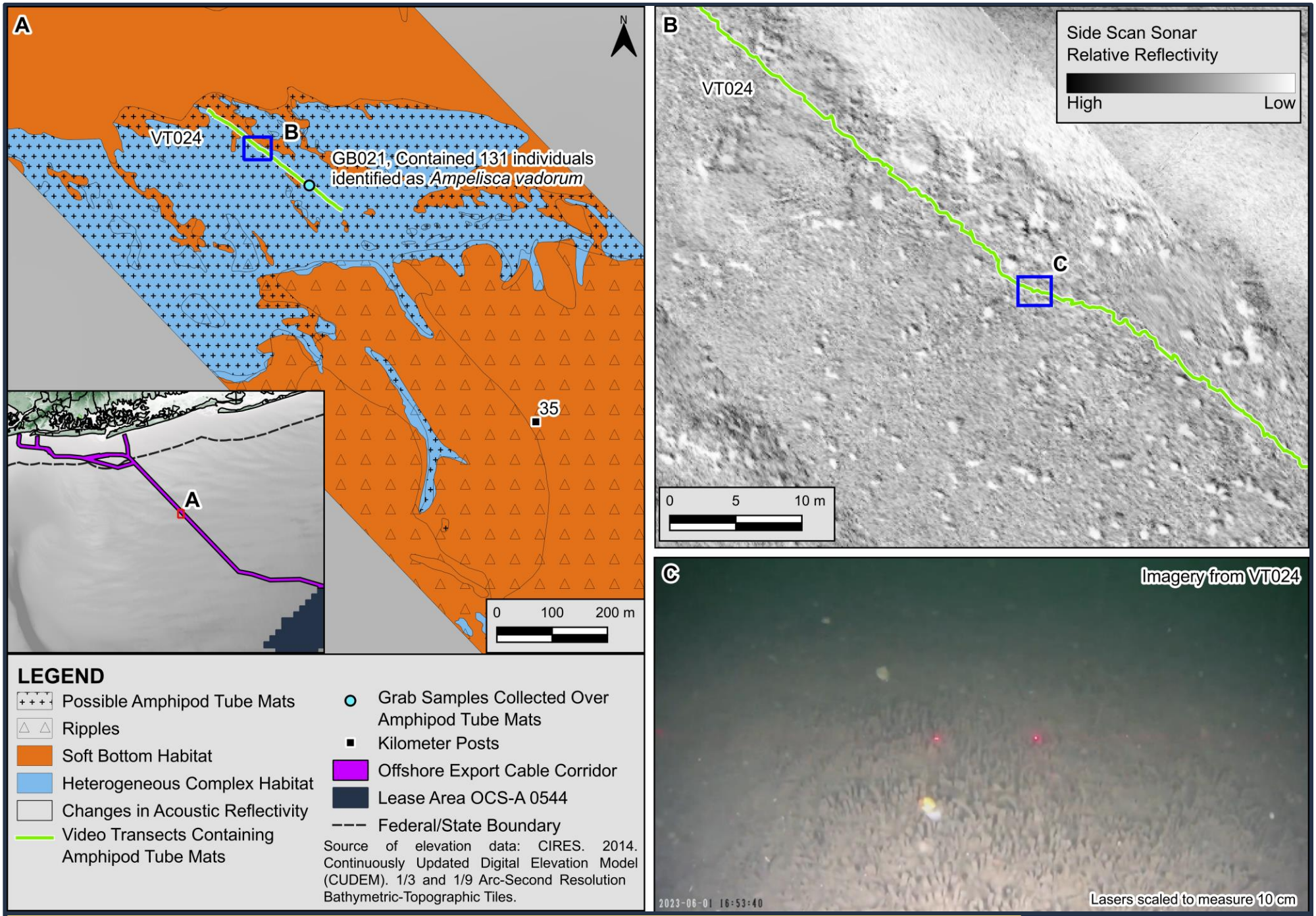

Figure 8.2-6
Amphipod Tube Mats in the OECC, Example

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

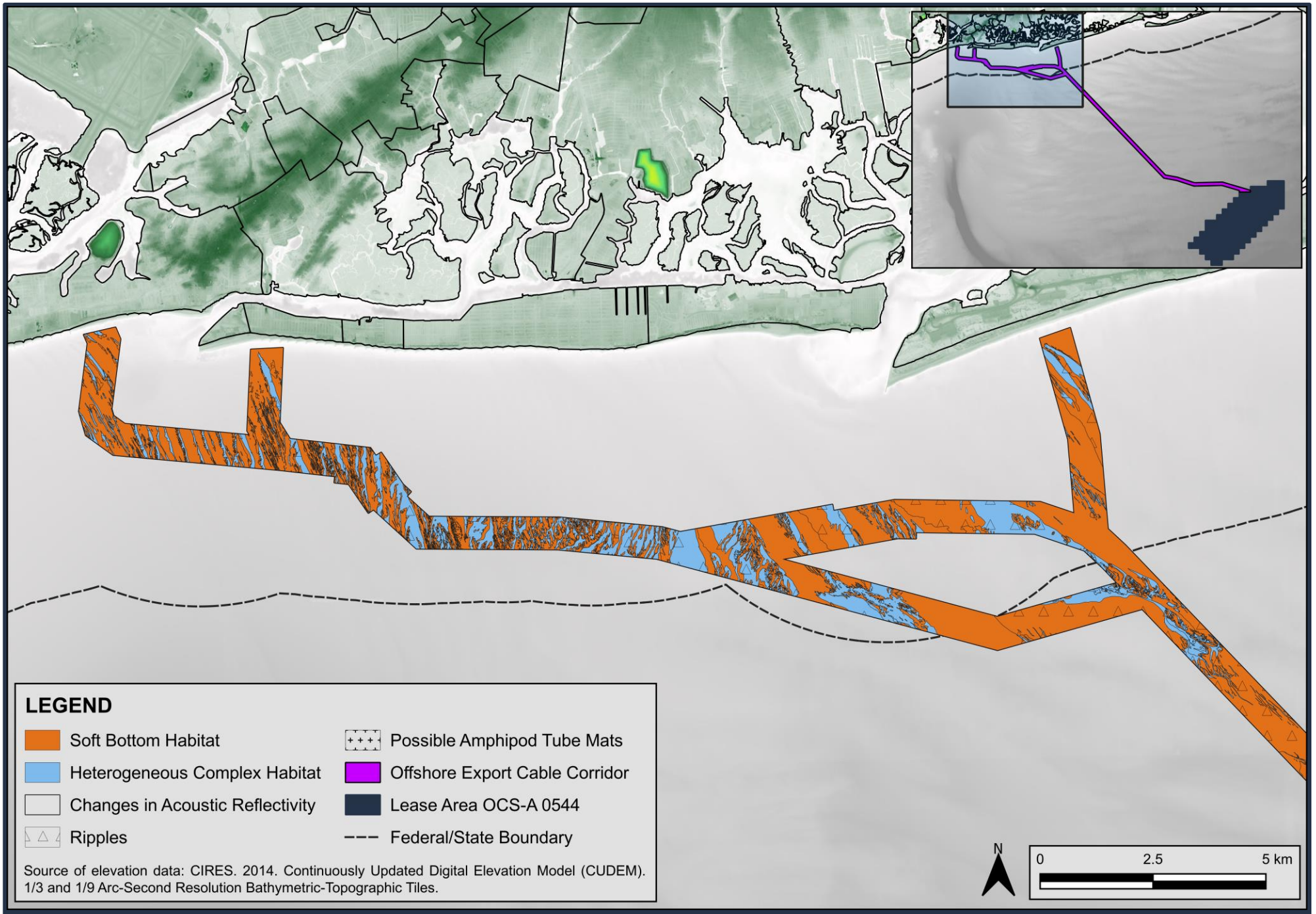

Figure 8.2-7
NMFS Habitat Mapping, OECC Nearshore

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

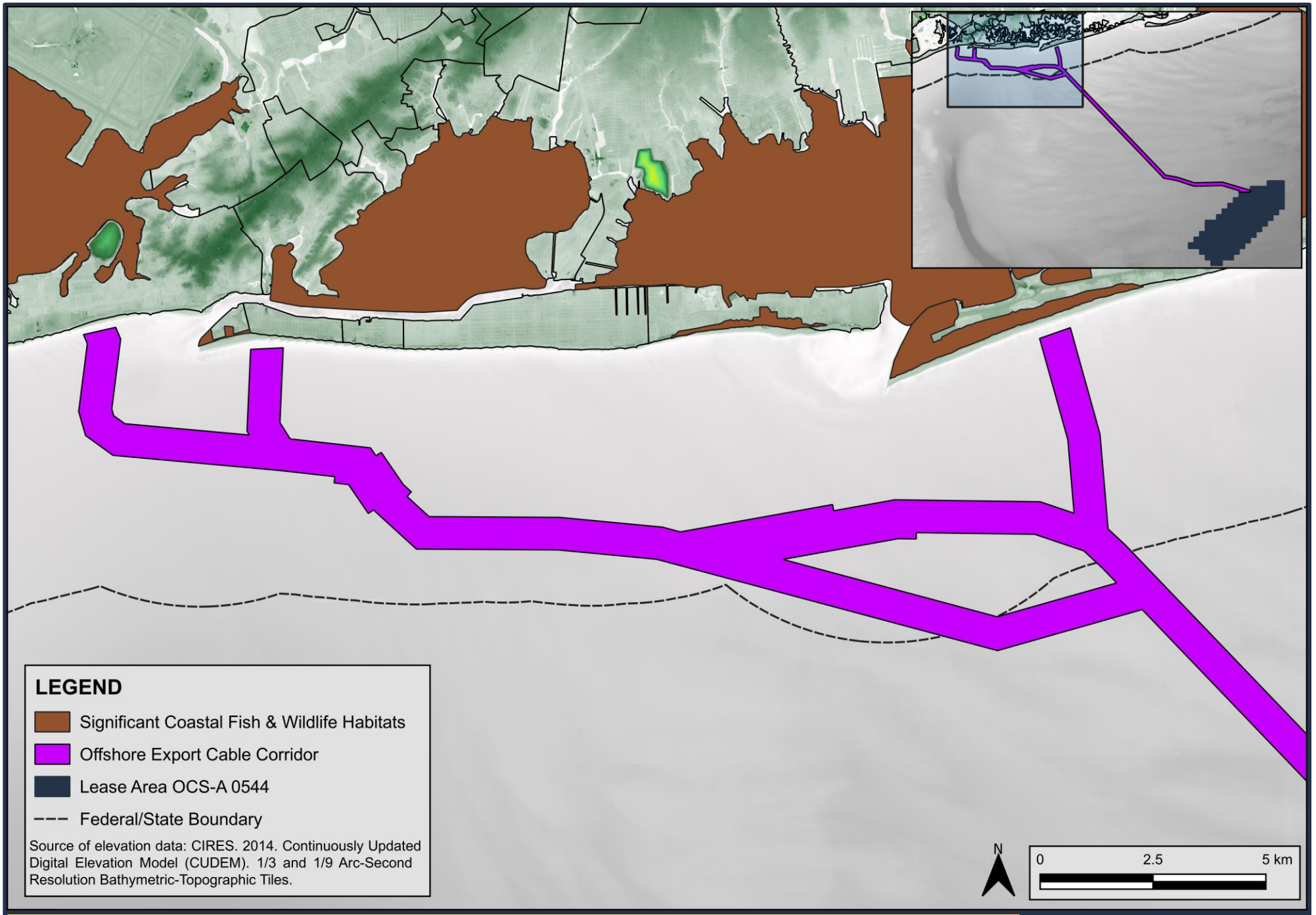

Figure 8.2-8
New York State Significant Coastal Fish and Wildlife Habitats

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

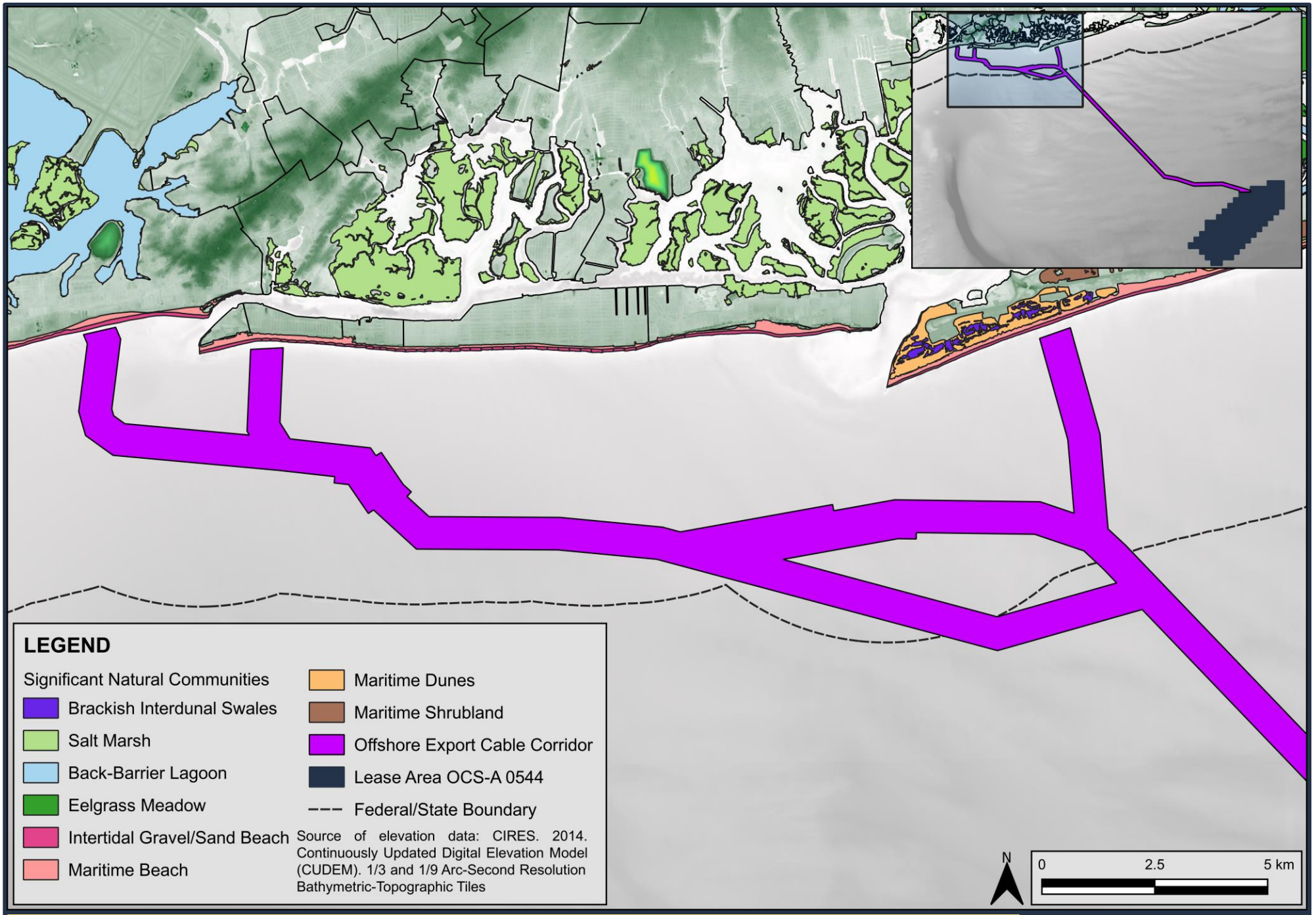

Figure 8.2-9
New York State Significant Natural Communities

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE

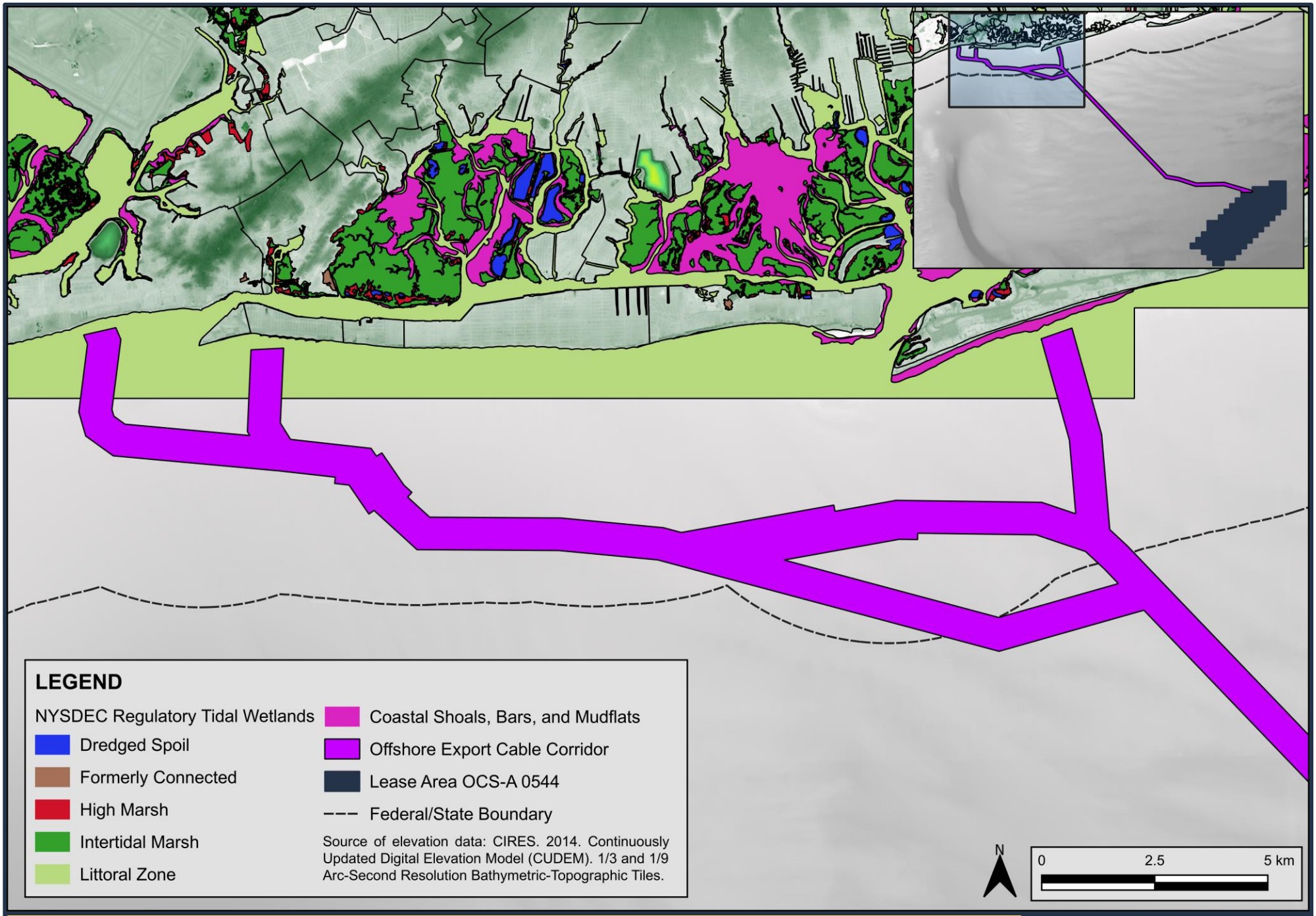

Figure 8.2-10
New York State Regulatory Tidal Wetlands

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

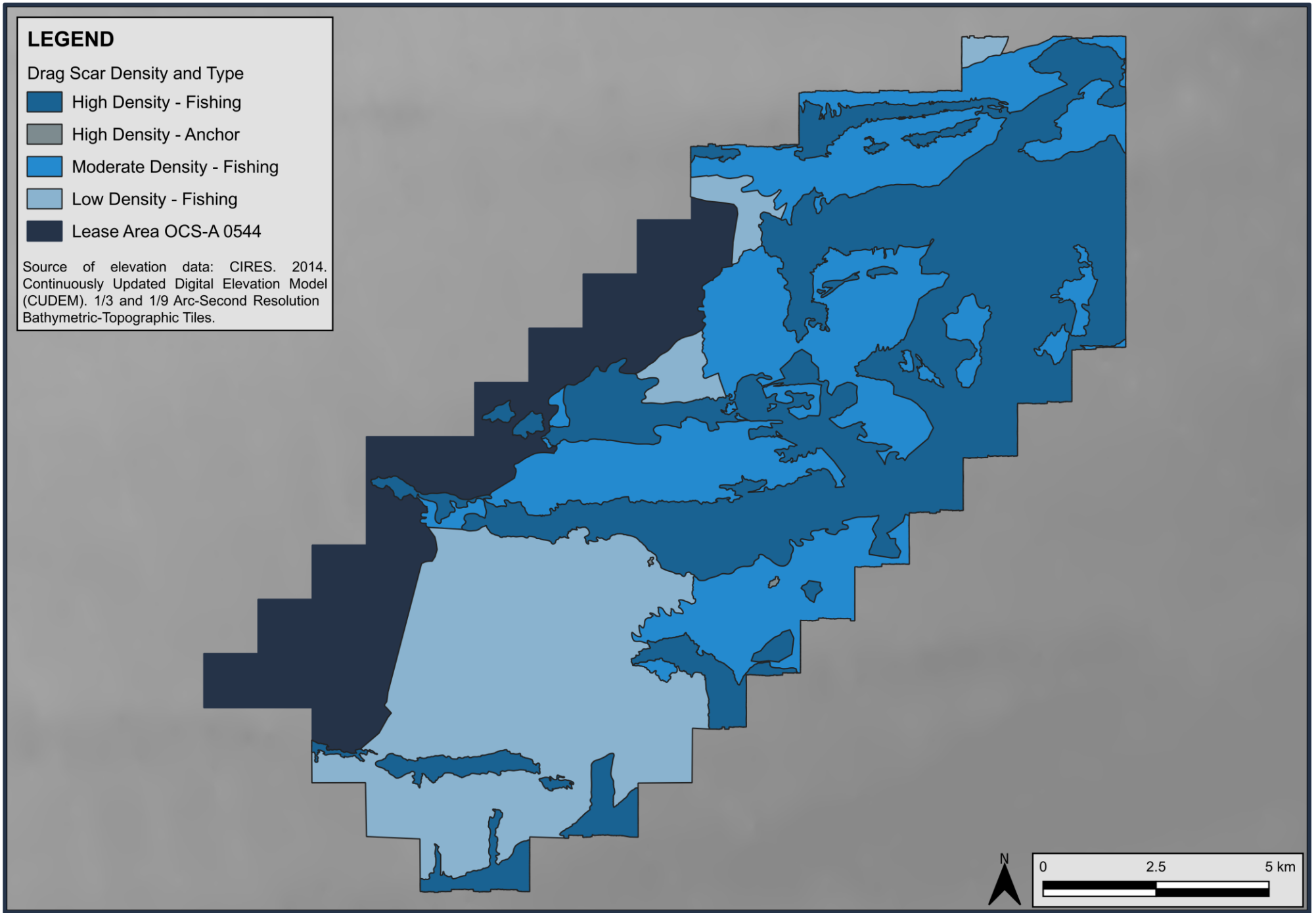

Figure 8.2-11
Lease Area Drag Scar Overview

VINEYARD MID-ATLANTIC
VINEYARD OFFSHORE

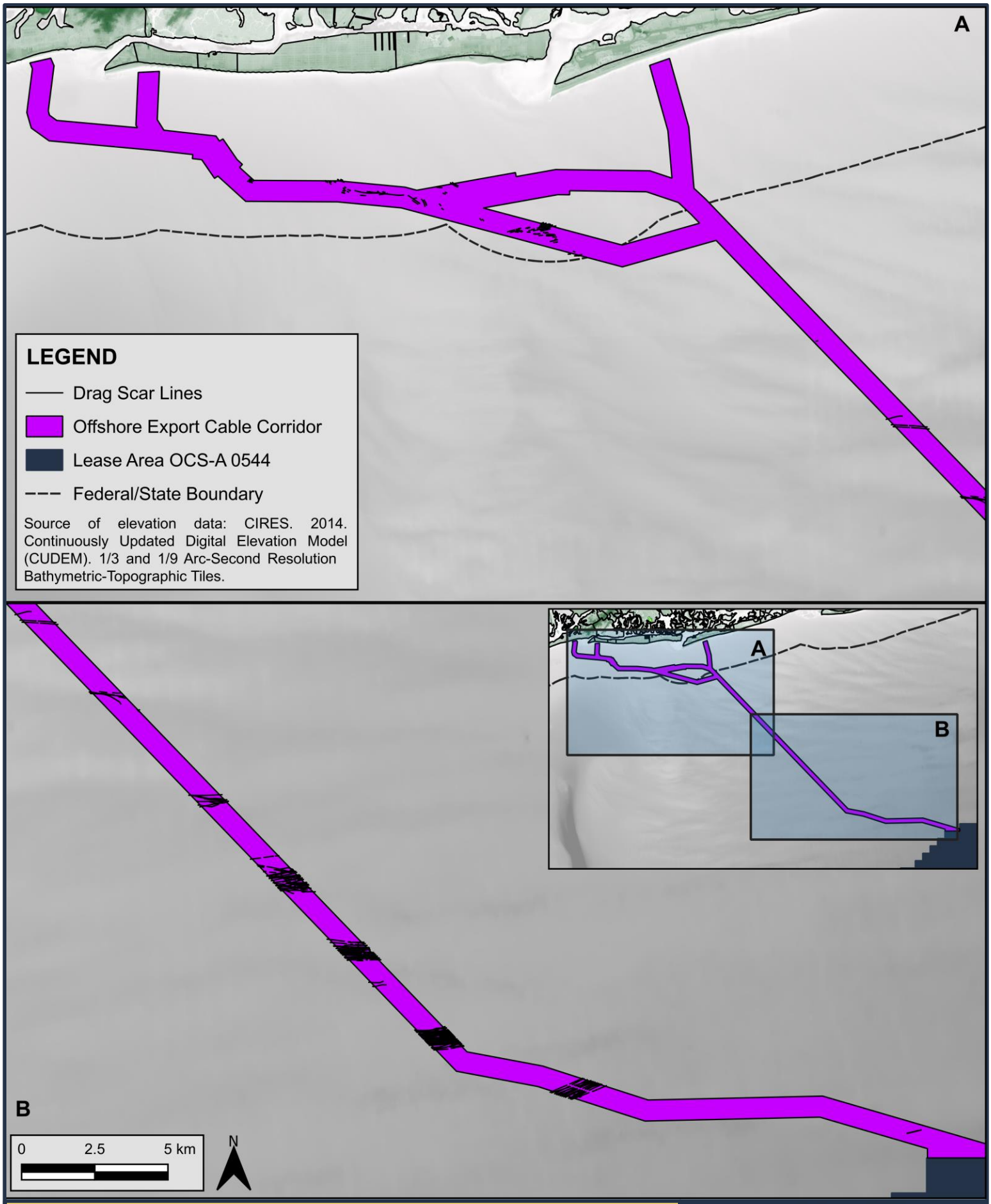

Figure 8.2-12
OECC Drag Scar Overview

VINEYARD MID-ATLANTIC

VINEYARD OFFSHORE