

**Co-occurrence of Atlantic  
surfclams (*Spisula solidissima*)  
and ocean quahogs (*Arctica  
islandica*)**

Presentation to MAFMC

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Data collection and analysis in collaboration with:

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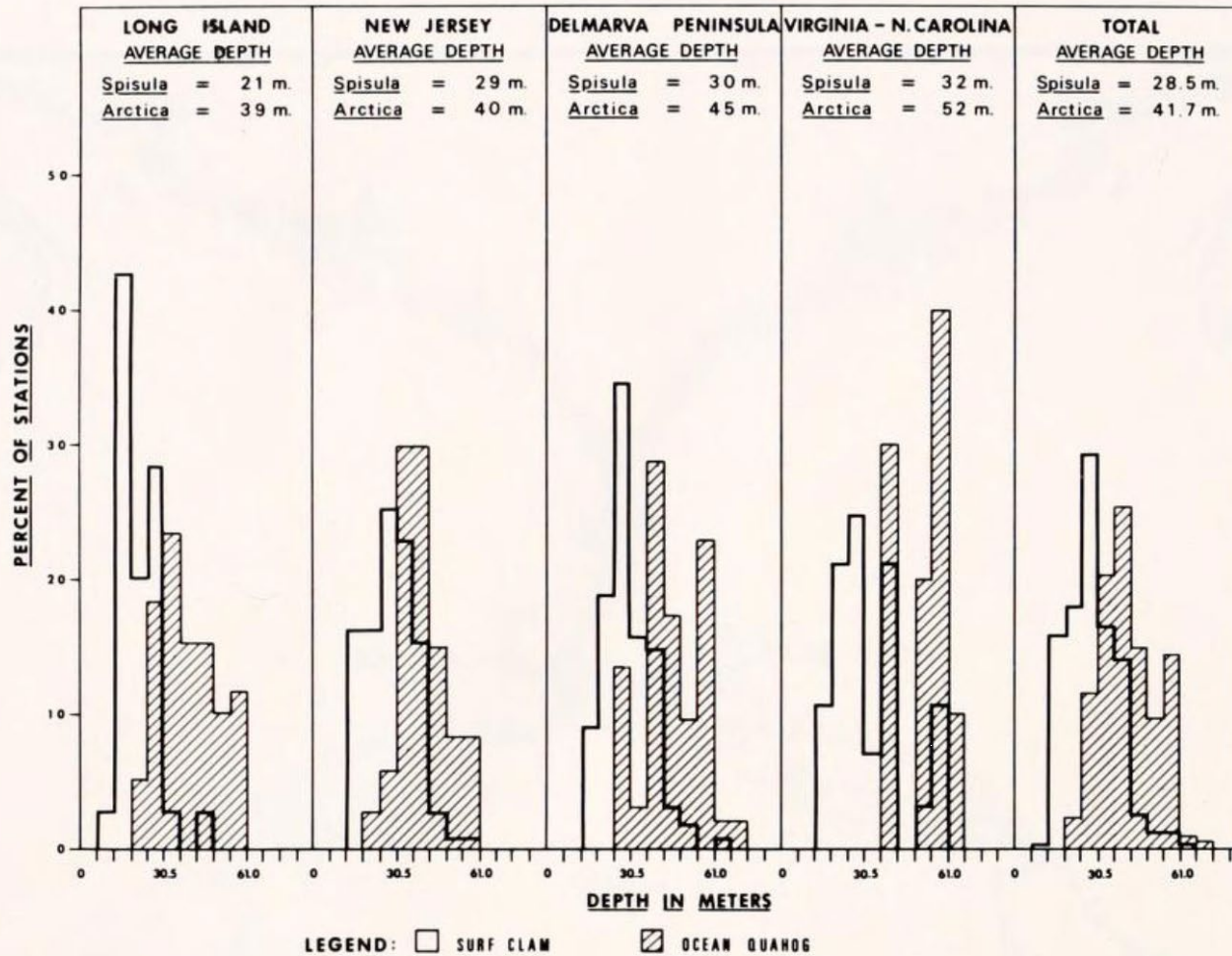
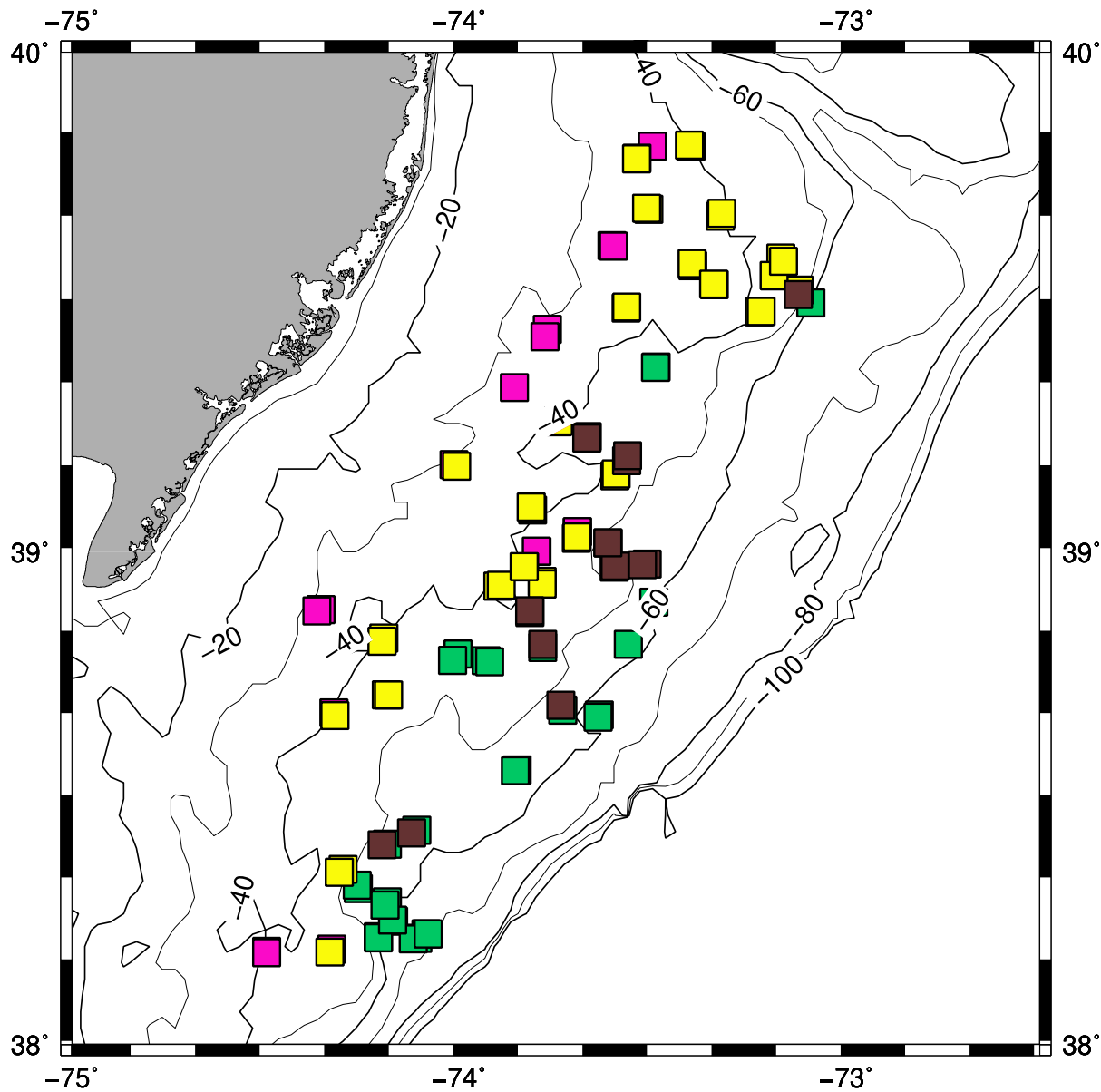


FIG. 3. Comparative distribution of surf clams and ocean quahogs, by area and depth, in the Middle Atlantic Bight. (30.5 m = 100 ft).

Source: Merrill, A.S. & J.W. Ropes. 1969. The general distribution of the surf clam and ocean quahog. *Proc. Natl. Shellfish. Assoc.* 59:40-45.



**Fall 2021 survey**

SC: surfclam

OQ: ocean quahog

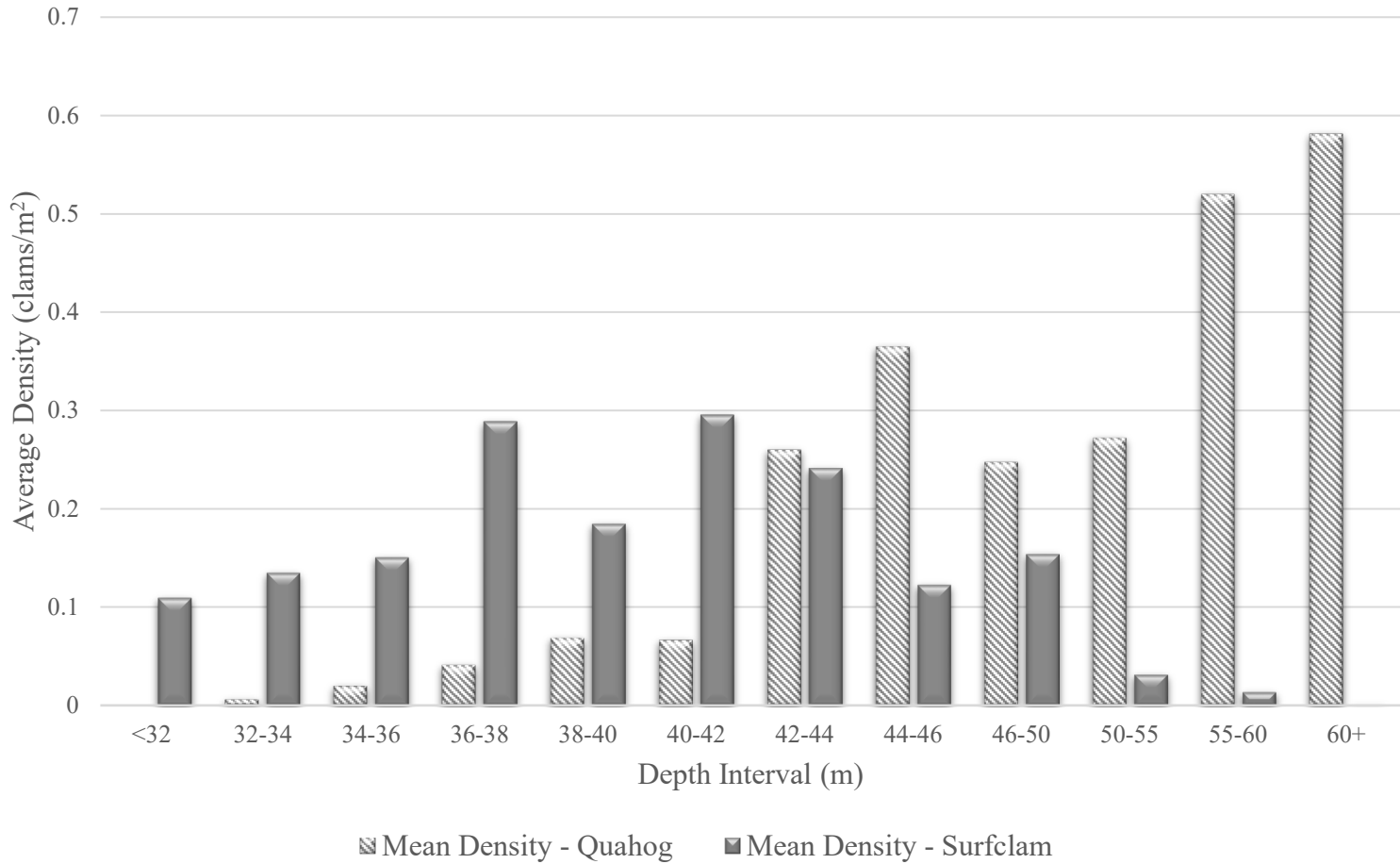
**Pink**: >96% SC

**Yellow**: SC in majority but OQ between 4 and 46%

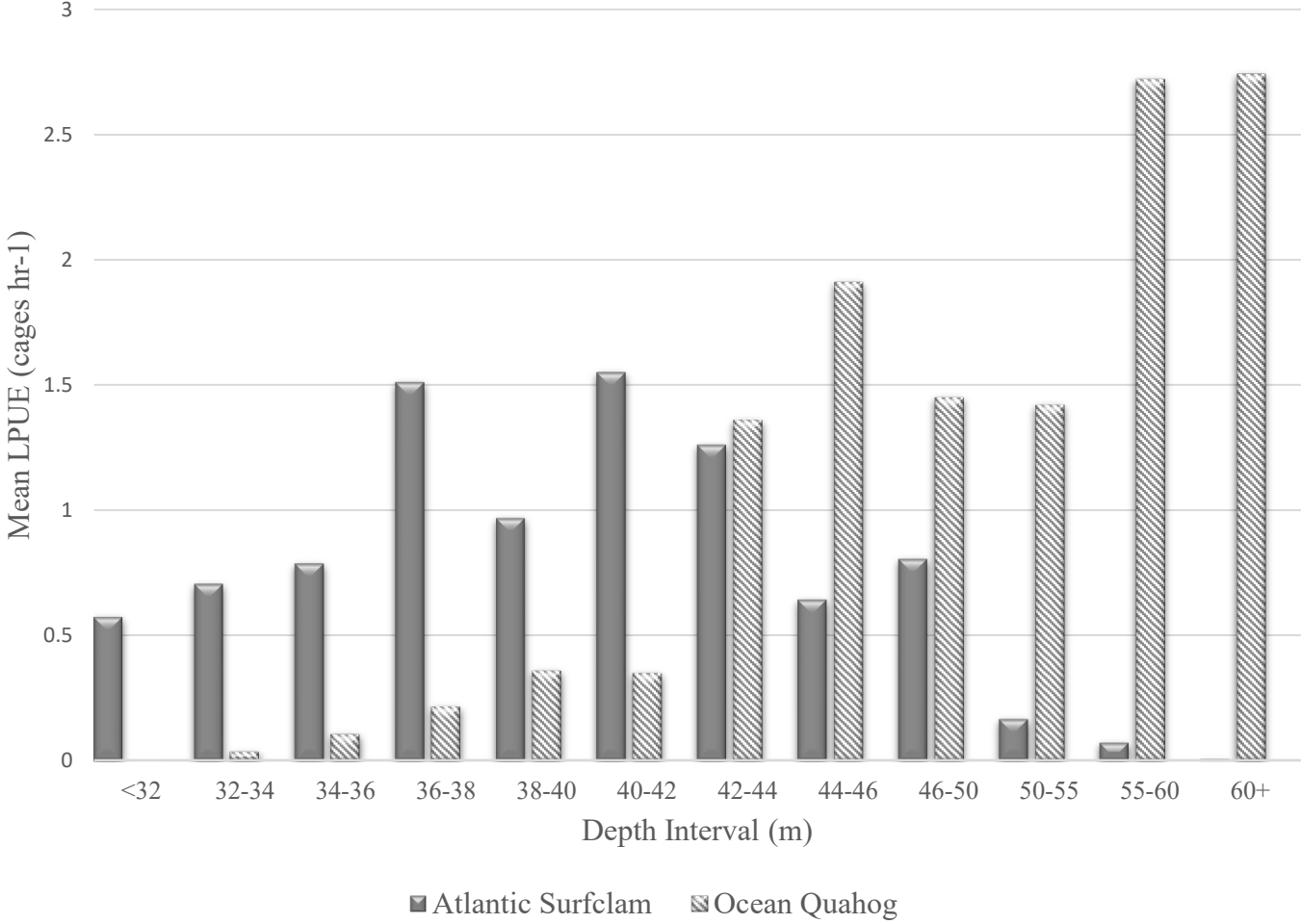
**Brown**: OQ in majority but SC between 4 and 46%

**Green**: >96% OQ

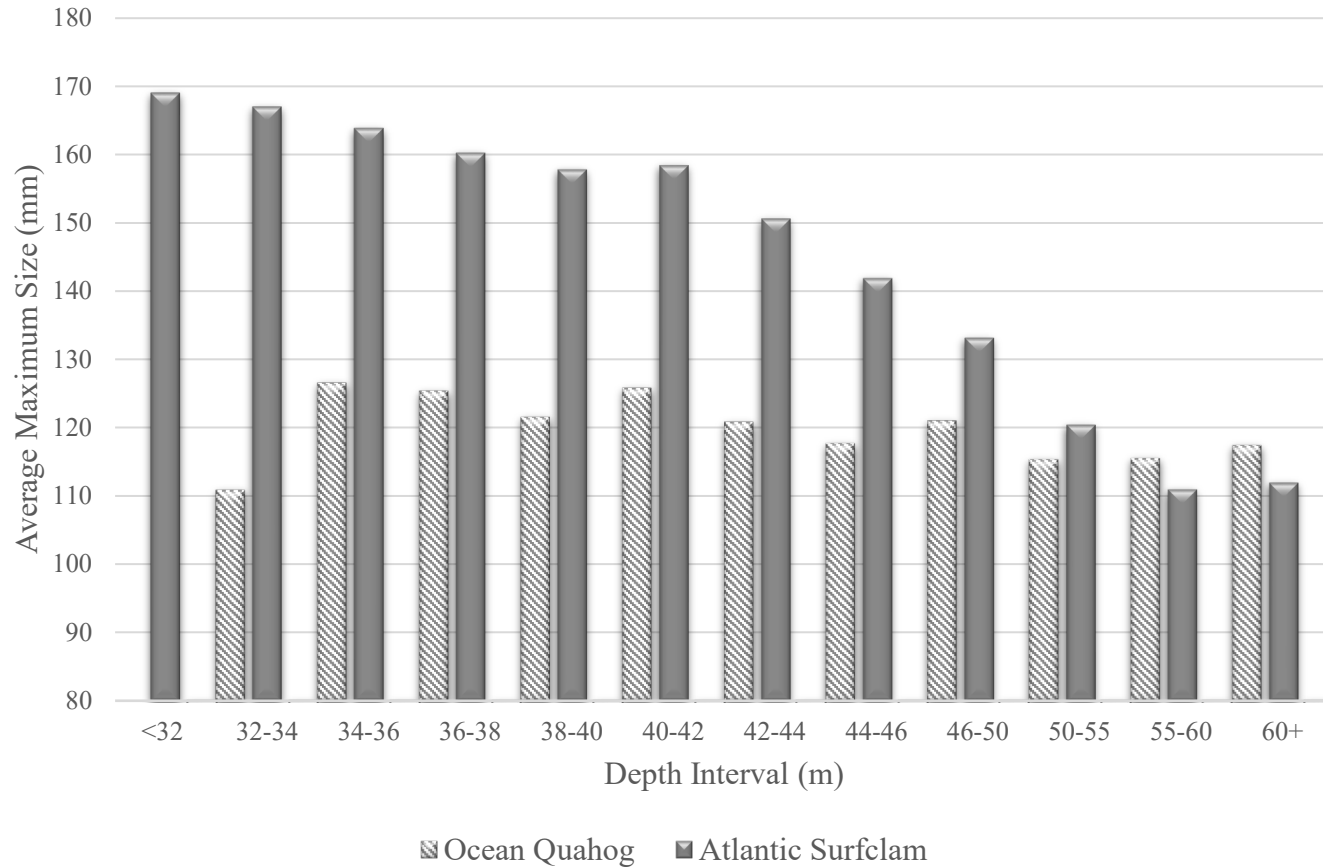
## Mean Density at Depth



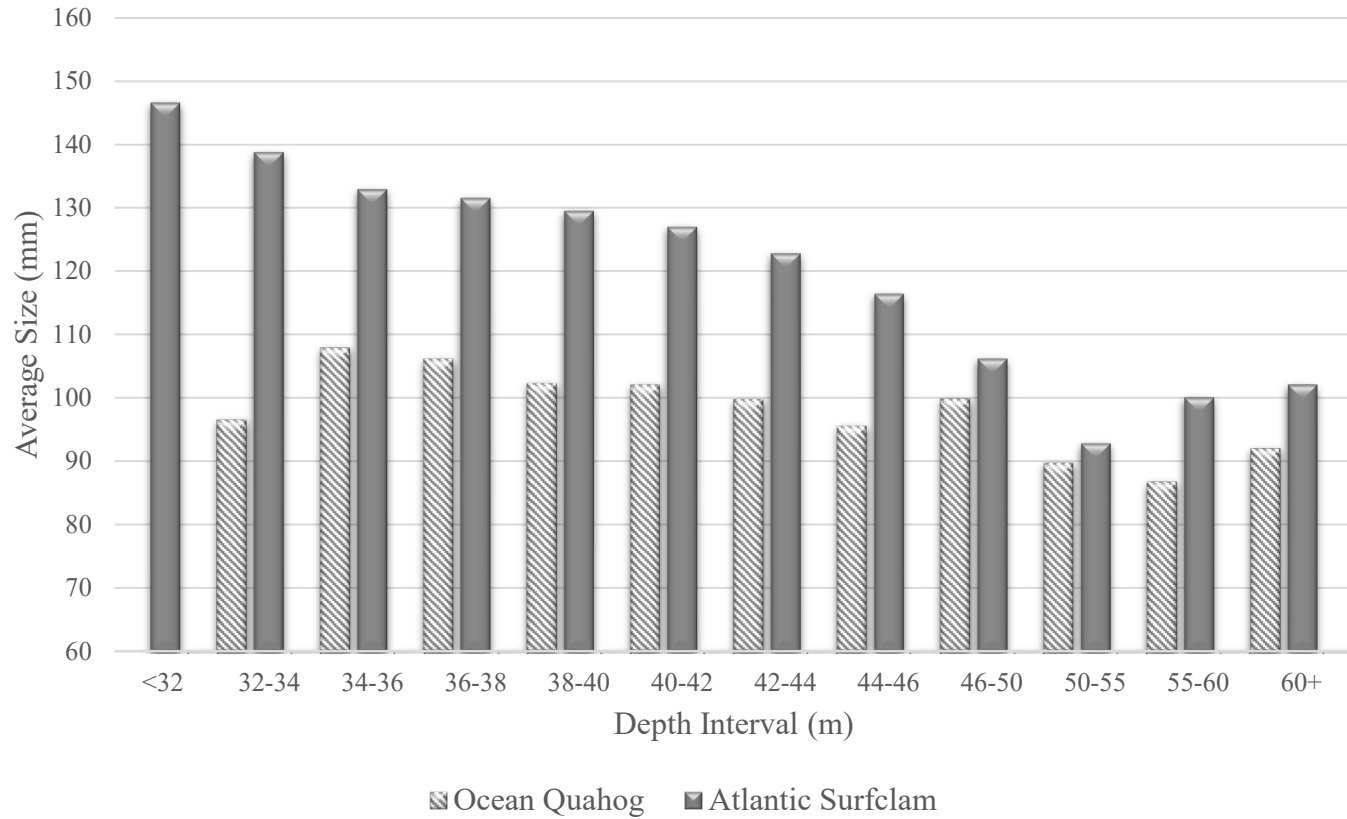
# Mean LPUE at Depth



## Maximum Size at Depth



## Mean Size at Depth



## Summary:

- Surfclams and ocean quahogs now exhibit substantial overlap in the MAB region
- Surfclams dominant <40m
- Ocean quahogs dominant >60m
- Overlap most prominent in the 40-55m depth range
- Desired CPUE for surfclams in particular is in the region of overlap
- This will not change in near future, indeed all data suggest this will persist
- Thus we arrive at a discussion of mixed species in catches