Pathways of connectivity between the coastal ocean and the Chesapeake Bay estuary: Atlantic Menhaden and recruitment variability Bi, Houde, Li, North, Hare

Hypotheses

- Changes in physical forcing affect circulation and productivity in coastal waters that in turn control population dynamics of menhaden by altering the location and timing of spawning by adults and the transport of eggs and larvae to the Chesapeake Bay.
 - H1. Spawning habitat of Atlantic menhaden is determined by physical processes that cause shifts in space and time in favorable spawning conditions.
 - H2. Physical processes are determinants of connectivity between coastal spawning locations and estuarine nursing grounds.
 - H3. Variability in connectivity between coastal and estuarine habitats can be a bottleneck for recruitment to estuarine nurseries.



