



OBJECTIVE

To set up a comprehensive understanding of the hydrodynamics in the Maryland Coastal Bays by relative roles of multiple dynamic processes in a holistic manner and to identify probabilities and consequences of what the future may hold



Locations of the MCBs showing the inlets, sub-bays, tributaries and some important locations

tue Inlet (CI)

STUDY AREA

- Shallow interconnected lagoon system with two inlets; heavily influenced by tides and currents, and also sensitive to climate change and storm surge
- Located between the eastern side of Delmarva (Delaware–Maryland–Virginia) Peninsula and its sandy barrier islands which isolate the Bays from the Atlantic Ocean
- Includes five sub-bays and one major river: Assawoman Bay, Isle of Wight Bay, Sinepuxent Bay, Newport Bay, Chincoteague Bay, and St. Martin River
- Shallowness: 1-2 m or less except inlet areas











The Physical Conditions of the Maryland Coastal Bays (MCBs) and its Impact on the Recruitment of Blue Crab Larvae Dr. Meng Xia

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Relative contributions of external forcing to the recruitment success in the MCBs from various regions







- Density gradient

Maryland Energy Administration